ANNEX J to ATTACHMENT F

WASTE STREAM PROFILES – WIPP

NOTE: The TRU Waste Baseline Inventory Waste Profile forms only reflect the data as reported by the TRU Waste Sites. During the process of generating the TRU Waste Baseline Inventory Report for the CRA, priority was given to developing data or those parameters considered important to performance assessment (PA). SNL will evaluate whether any of the individual or cumulative inconsistencies identified have an impact on PA.

The following waste stream profiles contain information on waste streams compliant with the Contact-Handled Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Plant (CH-WAC; DOE 2002) as of the inventory date, September 30, 2002. The TRU waste sites that have reported WIPP waste streams are:

Argonne National Laboratory – East	AE
Argonne National Laboratory – West	AW
Battelle Columbus Laboratory	BC
Bettis Atomic Power Laboratory	BT
Energy Technology Engineering Center	ET
Idaho National Engineering and Environmental Laboratory	IN
Knolls Atomic Power Laboratory – Schenectady	KA
Knolls Atomic Power Laboratory – Nuclear Fuels Service	KN
Los Alamos National Laboratory	LA
Lawrence Livermore National Laboratory	LL
U. S. Army Material Command	MC
University of Missouri Research Reactor	MU
Nevada Test Site	NT
Oak Ridge National Laboratory	OR
Paducah Gaseous Diffusion Plant	PA
Rocky Flats Environmental Technology Site	RF
Hanford (Richland)	RL
Hanford (River Protection)	RP
Sandia National Laboratories (Albuquerque)	SA
Savannah River Site	SR

Editorial Note: The date, “Stored End of CY 2001” under the waste volume detail area of the waste profile forms should be “Stored End of FY 2002,” indicating the end of the fiscal year (September 30, 2002) and not the end of calendar year 2001.

REFERENCES

Department of Energy (DOE). 2002. Contact-Handled Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Plant, Revision 0, DOE/WIPP-02-3122, May 17, 2002.

TWBIR ID: AE-T001

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	AE-T001	**Handling**	CH	**Stream Name**	ANL-E Contact-Handled Mixed Debris			**Inventory Date**	9/30/2002
Local ID	AECHDM	**Waste Type**	MTRU	**Generator Site**	AE	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
D005, D006, D007, D008, D009, D011

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	77.00	0.00	0.00
Aluminum-Base Metal/Alloys	8.68	0.00	0.00
Other Metal/Alloys	23.30	0.00	0.00
Other Inorganic Materials	4.78	0.00	0.00
Cellulosics	5.99	0.00	0.00
Rubber	7.32	0.00	0.00
Plastics	63.40	0.00	0.00
Solidified, Inorganic Matrix	1.64	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.42	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

AE-216

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.30E-01
Cs-137	3.36E-02
Np-237	4.28E-03
Pu-236	1.12E-08
Pu-238	8.80E-02
Pu-239	9.12E-01
Pu-240	5.39E-01
Pu-241	2.25E+00
Pu-242	4.37E-04
Sr-90	2.40E-02
Tc-99	3.73E-02
Th-232	3.96E-07
U-232	3.06E-03
U-233	6.00E-04

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : AE-T001

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55-gallon	90.1	8.0	20.0	20.0	18.0	156.2

As-Generated	Stored	Projected	Total
	90.1	66.1	156.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	90.1	0.0	0.0	0.0	0.0	156.2

Final Form	Stored	Projected	Total
	90.1	66.1	156.2

TWBIR ID: AE-T001

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
U-234	5.40E-05
U-235	1.80E-05
U-235(n)	2.93E-13
U-236	1.27E-07
U-237	1.98E-09
U-238	3.18E-04

Waste Stream Description	Organic debris, plastic,rubber,paper, cloth. Waste stream identifiers previously referred to as AE-W041 and AE-W042 are now included with waste stream AE-T001.
Waste Stream Source Description	$ Not reported $ Non-mixed TRU derived from IDB.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste stream identifiers previously referred to as AE-W041 and AE-W042 are now included with waste stream AE-T001.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: AE-T003

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	AE-T003	**Handling**	CH	**Stream Name**	ANL-E Contact-Handled Mixed Homogenous Solids			**Inventory Date**	9/30/2002
Local ID	AECHHM	**Waste Type**	MTRU	**Generator Site**	AE	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3110

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D014, D018, D019, D021, D027, D028, D030, D035, D036, D037, F001, F002, F003, F004, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	101.00	101.00	101.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	216.30	168.30	259.60
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	129.99		
Packaging Material, Plastic	36.74		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

AE-229

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.63E-02
Cs-137	3.90E-04
Np-237	6.21E-04
Pu-236	1.38E-07
Pu-238	5.09E-02
Pu-239	1.24E+00
Pu-240	4.80E-01
Pu-241	4.95E+00
Pu-242	1.34E-05
Sr-90	1.00E-03
U-232	4.87E-10
U-233	4.09E-04
U-234	2.52E-07
U-235	3.22E-06

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : AE-T003

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55-gallon	23.1	1.7	4.2	4.2	3.7	36.4
Drum / 85 gallon	1.0	0.0	0.0	0.0	0.0	1.0

As-Generated	Stored	Projected	Total
	24.1	13.3	37.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	23.1	0.0	0.0	0.0	0.0	36.4
85 gallon drum	1.0	0.0	0.0	0.0	0.0	1.0

Final Form	Stored	Projected	Total
	24.1	13.3	37.4

TWBIR ID: AE-T003

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
U-236	5.89E-13
U-238	7.14E-05

Waste Stream Description	Solidified inorganic liquid waste from evaporator bottom. Waste stream identifiers previously referred to as AE-W038, AE-W039 and AE-W040 are now included with waste stream AE-T001.
Waste Stream Source Description	$ Not reported $ Non-mixed TRU derived from IDB
Current Container Comments	TB assumed all projected waste will be in 55 gallon drums.
EPA Comments	N/A
Management Comments	Waste stream identifiers previously referred to as AE-W038, AE-W039 and AE-W040 are now included with waste stream AE-T001.
Acceptance Comments	N/A
Final Form Comments	TB assumed all projected waste will be in 55 gallon drums.

TWBIR ID: AE-T009

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	RH TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	AE	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5490

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	61.60	0.00	0.00
Aluminum-Base Metal/Alloys	18.60	0.00	0.00
Other Metal/Alloys	79.60	0.00	0.00
Other Inorganic Materials	10.80	0.00	0.00
Cellulosics	0.90	0.00	0.00
Rubber	9.00	0.00	0.00
Plastics	21.10	0.00	0.00
Solidified, Inorganic Matrix	10.40	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	13.20	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	481.00		
Packaging Material, Plastic	15.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	N/A
Residues:	N/A
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ag-110	7.19E-06
Am-241	6.55E-02
Am-243	2.66E-07
Cd-113m	1.79E-02
Ce-144	4.67E-01
Cm-242	1.99E-05
Cm-244	4.39E-03
Co-57	2.93E-03
Co-60	6.54E-02
Cs-134	6.46E-03
Cs-137	7.11E-01
Dy-154	3.13E-04
Eu-152	5.74E-06
Eu-154	6.06E-04

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : AE-T009

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 30 gallon	5.8	4.8	12.0	12.0	10.8	45.2

As-Generated	Stored	5.8	Projected	39.4	Total	45.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	15.1	0.0	0.0	0.0	0.0	119.3

Final Form	Stored	15.1	Projected	104.1	Total	119.3

TWBIR ID: AE-T009

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Eu-155	3.74E-03
Eu-156	1.84E-05
Fe-55	1.70E+00
Kr-85	1.96E-02
Mn-54	6.59E-02
Np-237	1.32E-05
Pm-144	3.27E-03
Pm-147	3.18E-01
Pr-144	1.99E-03
Pu-238	9.51E-02
Pu-239	1.47E-01
Pu-240	3.22E-02
Pu-241	9.15E-01
Rh-106	1.49E-03

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Ru-106	3.49E-01
Sb-125	2.65E-02
Sm-151	2.06E-02
Sn-123	2.01E-05
Sn-126	7.29E-06
Sr-90	4.09E-01
Tc-99	8.91E-05
Te-127	1.07E-03
U-233	1.54E-06
U-235	1.30E-06
U-238	5.10E-07
Y-90	7.91E-02
Zr-93	1.08E-05

Waste Stream Description This waste is generated primarily as a result of fuel research activities.

Waste Stream Source Description N/A

Current Container Comments N/A

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: AW-N026.82

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	AW-W026	**Handling**	CH	**Stream Name**	ALHC UPGRADE DECON DEBRIS			**Inventory Date**	9/30/2002
Local ID	CH-ANL-505T	**Waste Type**	MTRU	**Generator Site**	AW	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
D006, D007, D008

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	236.00	207.00	567.00
Aluminum-Base Metal/Alloys	42.00	41.00	56.00
Other Metal/Alloys	7.00	2.00	49.00
Other Inorganic Materials	52.00	48.00	95.00
Cellulosics	81.00	18.00	300.00
Rubber	18.00	7.00	68.00
Plastics	68.00	22.00	191.00
Solidified, Inorganic Matrix	5.00	0.00	9.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	1.00	0.00	5.00
Soils	3.00	0.00	4.00
Packaging Material, Steel	108.00		
Packaging Material, Plastic	59.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Cs-137	1.49E+00
Pu-239	9.30E-03
Sr-90	7.45E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : AW-N026.82

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: AW-N026.82

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Paint scraping debris from analytical lab hot cell refurbishment.
Waste Stream Source Description	This waste stream was generated at Analytical Lab Hot Cell (ALHC) Upgrade, Bldg 752: Analytical Analysis for ANL-W Research and Development work and Environmental Compliance.. The generating process is: Debris was generated during decontamination of the ALHC to upgrade the facility to support the Fuel Cycle Facilty (FCF).
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	This is a TRU waste packaged to meet the WIPP WAC. Particulate materials were solidified for immobilization.
Acceptance Comments	This container requires repackaging to meet WIPP-WAC requirements.
Final Form Comments	N/A

TWBIR ID: AW-N027.531

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	AW-W027	**Handling**	CH	**Stream Name**	LEAD CONTAMINATED WASTE			**Inventory Date**	9/30/2002
Local ID	CH-ANL-142T	**Waste Type**	MTRU	**Generator Site**	AW	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5311

EPA Codes

As-Generated
D008

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	109.00	108.00	113.00
Aluminum-Base Metal/Alloys	0.20	0.20	0.20
Other Metal/Alloys	10.00	8.00	42.00
Other Inorganic Materials	8.00	3.00	15.00
Cellulosics	191.00	61.00	315.00
Rubber	30.00	22.00	72.00
Plastics	59.00	38.00	102.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	108.00		
Packaging Material, Plastic	59.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Analytical Lab gloveboxes

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.88E-03
Pu-238	4.33E+00
Pu-239	3.26E+00
Pu-240	1.97E-02
Pu-241	1.83E-02
Pu-242	2.48E-07
U-233	3.03E-07
U-234	2.17E-05
U-235	2.08E-06
U-238	7.73E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : AW-N027.531

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.8	2.1	1.2	0.0	5.0

As-Generated	Stored	Projected	Total
	0.8	4.2	5.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	5.4	0.0	0.0	0.0	0.0	9.8

Final Form	Stored	Projected	Total
	5.4	4.4	9.8

TWBIR ID: AW-N027.531

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is typically lead lined gloves removed from casting laboratory glove box.
Waste Stream Source Description	This waste stream was generated at Lab and Office Building (752) Engineering Fuels Laboratory (EFL)(B147): The EFL houses an experimental fuels casting lab, and areas for small scale testing of experimental processes related to nuclear fuels fabrication.. The generating process is: The EFL houses a glove box that fully contains a small scale nuclear fuel casting process. Because radioactive materials are handled and processed in the glove box, lead gloves are utilized to provide radiation protection.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	Previously generated containers require repackaging to meet WIPP-WAC requirements.
Final Form Comments	N/A

TWBIR ID: AW-T031.1322

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	AW-W031	**Handling**	RH	**Stream Name**	FCF (RH) MISCELLANEOUS TRU WASTE			**Inventory Date**	9/30/2002
Local ID	CH-ANL-540	**Waste Type**	TRU	**Generator Site**	AW	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	179.90	0.00	0.00
Aluminum-Base Metal/Alloys	32.30	0.00	0.00
Other Metal/Alloys	5.40	0.00	0.00
Other Inorganic Materials	40.00	0.00	0.00
Cellulosics	62.20	0.00	0.00
Rubber	13.70	0.00	0.00
Plastics	51.80	0.00	0.00
Solidified, Inorganic Matrix	3.60	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.60	0.00	0.00
Soils	2.30	0.00	0.00
Packaging Material, Steel	511.00		
Packaging Material, Plastic	21.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.57E-02
Am-242	1.10E-04
Am-242m	1.10E-04
Am-243	1.14E-05
Ba-137m	3.19E+01
Ce-144	2.87E+01
Cm-242	1.28E-04
Cm-243	3.32E-06
Cm-244	1.18E-04
Cs-134	1.13E+00
Cs-137	3.38E+01
Eu-154	1.22E-01
Eu-155	1.06E+00
Np-237	3.69E-05

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : AW-T031.1322

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated	Stored	Projected	Total
	0.0	0.0	0.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
RH Canister	0.0	0.0	0.0	0.0	0.0	26.7

Final Form	Stored	Projected	Total
	0.0	26.7	26.7

TWBIR ID: AW-T031.1322

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Np-239	1.14E-05
Pm-147	3.84E+01
Pr-144	2.87E+01
Pr-144m	3.45E-01
Pu-238	2.64E-02
Pu-239	6.58E-01
Pu-240	4.16E-01
Pu-241	9.24E-01
Pu-242	1.16E-05
Sm-151	7.79E-01
Sr-90	2.97E+01
U-233	9.86E-09
U-234	1.37E-04
U-235	4.48E-06

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
U-236	3.32E-06
U-238	3.66E-07
Y-90	2.97E+01
Y-91	1.89E-02

Waste Stream Description Fuel ConditioningFacility (FCF) Remote-handled (RH) Radioactive Transuranic Miscellaneous waste: hot laboratory waste, filters, etc. This waste has not been generated yet.

Waste Stream Source Description This waste stream was generated at Fuel Cycle Facility (FCF) Bldg. 765: Nuclear fuel pyroprocessing operations in support of the Fuel Cycle Facility operation.. The generating process is: FCF Hot Laboratory analysis waste to support operations.

Current Container Comments N/A

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: AW-T033.1325

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	AW-W033	**Handling**	CH	**Stream Name**	ANL-752 TRU WASTE			**Inventory Date**	9/30/2002
Local ID	CH-ANL-542	**Waste Type**	TRU	**Generator Site**	AW	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5490

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	236.00	207.00	567.00
Aluminum-Base Metal/Alloys	42.00	41.00	56.00
Other Metal/Alloys	7.00	2.00	49.00
Other Inorganic Materials	52.00	48.00	95.00
Cellulosics	81.00	18.00	300.00
Rubber	18.00	7.00	68.00
Plastics	68.00	22.00	191.00
Solidified, Inorganic Matrix	5.00	0.00	9.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	1.00	0.00	5.00
Soils	3.00	0.00	4.00
Packaging Material, Steel	108.00		
Packaging Material, Plastic	59.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Analytical Laboratory Waste

TRUCON Codes

AW125B

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.88E-03
Pu-238	4.33E+00
Pu-239	3.26E+00
Pu-240	1.97E-02
Pu-241	1.83E-02
Pu-242	2.48E-07
U-233	3.03E-07
U-234	2.17E-05
U-235	2.08E-06
U-238	7.73E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : AW-T033.1325

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	5.0	12.5	7.5	0.0	25.6

As-Generated	Stored	Projected	Total
	0.4	25.2	25.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	25.6

Final Form	Stored	Projected	Total
	0.4	25.2	25.6

TWBIR ID: AW-T033.1325

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Transuranic waste generated from plutonium casting laboratory (PCL) and Analytical laboratory (AL) Hot cell operations. This waste is typically packged in 55-gallon drums.
Waste Stream Source Description	This waste stream was generated at ANL-752 A-101 and B-147: Building 752 is called the Lab and Office building. It contains offices, cafeteria, and laboratory areas.. The generating process is: The AL Hot Cell is a shielded enclosure used to handle and perform analytical measurements on irradiated fuel and hardware from HFEF. The plutonium casting laboratory (PCL) is used to run experiments for various waste forms realtive to ANL-W operations.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: AW-W012.10

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	AW-W012	**Handling**	RH	**Stream Name**	ELECTROREFINER SALT			**Inventory Date**	9/30/2002
Local ID	CH-ANL-218T	**Waste Type**	MTRU	**Generator Site**	AW	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3141

EPA Codes

As-Generated
D005, D006

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	126.80	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.50	0.00	0.00
Other Inorganic Materials	56.50	0.00	0.00
Cellulosics	0.20	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	1.50	0.00	0.00
Solidified, Inorganic Matrix	315.90	0.00	0.00
Cement (Solidified)	296.40	0.00	0.00
Vitrified	22.70	0.00	0.00
Solidified, Organic Matrix	0.10	0.00	0.00
Soils	0.50	0.00	0.00
Packaging Material, Steel	511.00		
Packaging Material, Plastic	21.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.57E-02
Am-242	1.10E-04
Am-242m	1.10E-04
Am-243	1.14E-05
Ba-137m	3.19E+01
Ce-144	2.87E+01
Cm-242	1.28E-04
Cm-243	3.32E-06
Cm-244	1.18E-04
Cs-134	1.13E+00
Cs-137	3.38E+01
Eu-154	1.22E-01
Eu-155	1.06E+00
Np-237	3.69E-05

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : AW-W012.10

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.0	0.0	0.0	0.0	0.0	15.4

As-Generated	Stored	Projected	Total
	0.0	15.4	15.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	0.0	0.0	20.5

Final Form	Stored	Projected	Total
	0.0	20.5	20.5

TWBIR ID: AW-W012.10

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Np-239	1.14E-05
Pm-147	3.84E+01
Pr-144	2.87E+01
Pr-144m	3.45E-01
Pu-238	2.64E-02
Pu-239	6.58E-01
Pu-240	4.16E-01
Pu-241	9.24E-01
Pu-242	1.16E-05
Sm-151	7.79E-01
Sr-90	2.97E+01
U-233	9.86E-09
U-234	1.37E-04
U-235	4.48E-06

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
U-236	3.32E-06
U-238	3.66E-07
Y-90	2.97E+01
Y-91	1.89E-02

Waste Stream Description This waste stream consists of chloride salts containing residual amounts of cadmium and barium. This waste stream will be generated from the Fuel Conditioning Facility operations as a result of decommissioning the electrorefining equipment. The cadmium pool will be pumped out of the MK-IV electrorefiner using the bulk fluid handling system. It will be treated with the most economical and technically sound available process for treating hazardous metals. The two technologies currently being considered are amalgamation and encapsulation. Amalgamation involves mixing the cadmium with another metal. Encapsulation involves covering the solid cadmium with a layer of plastic. Research and development on one or both of these processes will be done during the inventory reduction phase of spent fuel treatment. If other more promising technologies are proposed in the near future, they will also be considered. The final destination for this waste should be WIPP if the RH canister container can meet the RH radiation limitations of <100 R/hr at contact.

Waste Stream Source Description This waste stream was generated at ANL-765, Fuel Cycle Facility (FCF): Nuclear fuel pyroprocessing operations in support of the Fuel Cycle Facility (FCF) operation.. The generating process is: Spent salt compound (chlorides of Li, Na, Ba, and Cd) from the electrorefiner station in the IFR fuel cycle.

Current Container Comments N/A

EPA Comments Barium and possibly cadmium will contaminate this waste. Concentrations will not be known until the waste is generated.

Management Comments Remote Handled

Acceptance Comments N/A

TWBIR ID: AW-W012.10

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Comments N/A

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TWBIR ID: AW-W020.13

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	AW-W020	**Handling**	RH	**Stream Name**	TRU-CD-HOT CELL WASTE			**Inventory Date**	9/30/2002
Local ID	CH-ANL-241T	**Waste Type**	MTRU	**Generator Site**	AW	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3113

EPA Codes

As-Generated
D006, D007, D008

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	126.80	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.50	0.00	0.00
Other Inorganic Materials	56.50	0.00	0.00
Cellulosics	0.20	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	1.50	0.00	0.00
Solidified, Inorganic Matrix	315.90	0.00	0.00
Cement (Solidified)	296.40	0.00	0.00
Vitrified	22.70	0.00	0.00
Solidified, Organic Matrix	0.10	0.00	0.00
Soils	0.50	0.00	0.00
Packaging Material, Steel	511.00		
Packaging Material, Plastic	21.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ce-141	4.48E+00
Ce-144	8.94E+00
Co-57	1.08E-04
Co-60	1.96E+00
Cs-134	7.38E+00
Cs-137	2.01E+01
Eu-154	3.70E-03
Eu-155	8.56E-02
H-3	5.07E-05
Mn-54	1.43E+01
Na-22	8.86E-02
Np-237	7.79E-06
Pu-239	5.62E-01
Pu-240	1.76E-01

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : AW-W020.13

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 45 Gallon	0.0	0.4	1.0	0.6	0.0	2.0
Liner / 0.1m3	0.8	0.0	0.0	0.0	0.0	0.8
Liner / 0.3m3	1.5	0.0	0.0	0.0	0.0	1.5
Liner / 0.5m3	9.5	0.0	0.0	0.0	0.0	9.5

As-Generated	Stored	11.8	Projected	2.0	Total	13.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	16.0	0.0	0.0	0.0	0.0	18.7

Final Form	Stored	16.0	Projected	2.7	Total	18.7

TWBIR ID: AW-W020.13

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Pu-241	4.91E+01
Rh-106	9.86E+00
Sb-125	1.19E+00
Sr-90	3.91E+00
Th-234	7.72E+02
U-233	1.12E-02
U-235	1.42E-04
U-238	2.29E-05
Y-90	3.91E+00

Waste Stream Description This waste stream consisted of metallic cadmium, salts, and associated cleanup materials (paper towels and cloth rags). The waste is contaminated with activation and fission products as well as with plutonium. This waste stream is generated for Fuel Conditioning Facility Demonstration support experiments; the analysis of fuels in the hot cells.

Previous waste is stored in the Radioactive Scrap and Waste Facility in two liners. Future waste generation will be small because evaporation as part of the process will be done in the hot cell to minimize the volume.

Waste Stream Source Description This waste stream was generated at ANL-785, Hot Fuel Examination Facility (HFEF): Examinations conducted in the HFEF provide data that are essential for detmining the performance of fuels and materials irradiated in the EBR-II Reactor.. The generating process is: This waste stream is generated from Fuel Cycle Facility demonstration support experiments. Small scale test of equipment to be used in the FCF electrorefiner generated the waste.

Current Container Comments N/A

EPA Comments The waste is generated from analytical analysis.

Management Comments Alpha Containment

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: AW-W026

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	ALHC Upgrade Decon Debris			**Inventory Date**	9/30/2002
Local ID	CH-ANL-50-5T	**Waste Type**	MTRU	**Generator Site**	AW	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
D006, D007, D008

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	97.00	0.00	0.00
Aluminum-Base Metal/Alloys	1.80	0.00	0.00
Other Metal/Alloys	203.60	0.00	0.00
Other Inorganic Materials	11.20	0.00	0.00
Cellulosics	6.30	0.00	0.00
Rubber	0.40	0.00	0.00
Plastics	4.10	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	511.00		
Packaging Material, Plastic	21.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.80E-01
Ce-144	5.33E-03
Cs-134	2.93E-03
Cs-137	2.31E-01
Eu-154	8.18E-04
Eu-155	1.86E-03
Mn-54	2.94E-06
Pu-239	3.16E-02
Rh-106	3.69E-02
Sr-90	8.25E-01
U-235	3.25E-06
U-238	4.42E-07
Y-90	8.25E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : AW-W026

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Bin / Metal	4.7	0.0	0.0	0.0	0.0	4.7
Drum / Metal	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated	Stored	4.7	Projected	0.0	Total	4.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	6.2	0.0	0.0	0.0	0.0	6.2

Final Form	Stored	6.2	Projected	0.0	Total	6.2

TWBIR ID: AW-W026

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Waste packaged for WIPP containing: Radioactive cadmium debris from CH-ANL-242T, solidified to meet WIPP-WAC requirement for particulate immobilization, and bags of lead-lined gloves were placed in the solidified CO2 drums to fill the void spaces. The leftover gloves were placed in a separate 30 gallon drum. 1710 lbs of waste are in two TRU Pac containers: MW-S-94-02 AND MW-S-94-03.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	NONE
Management Comments	Additional Source - Other Decontamination Waste.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: AW-W028

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	TRU Waste Used Pre-Filters.			**Inventory Date**	9/30/2002
Local ID	CH-ANL-503T	**Waste Type**	MTRU	**Generator Site**	AW	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
D006, D007, D008

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	57.80	0.00	0.00
Other Metal/Alloys	144.60	0.00	0.00
Other Inorganic Materials	115.60	0.00	0.00
Cellulosics	202.40	0.00	0.00
Rubber	57.80	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	1022.00		
Packaging Material, Plastic	42.00		
Packaging Material, Lead	928.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Pollution Control or Waste Treatment Process

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ce-144	3.69E-02
Co-60	1.49E-03
Cs-134	8.63E-03
Cs-137	3.09E-01
Eu-154	1.14E-03
Eu-155	6.65E-03
Mn-54	7.72E-04
Pu-239	2.67E-02
Pu-240	1.41E-03
Rh-106	2.80E-02
Sb-125	3.35E-03
Sr-90	8.63E-01
U-235	1.38E-06
U-238	7.41E-07

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : AW-W028

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Bin / Metal	0.9	0.0	0.0	0.0	0.0	0.9
Drum / 45 Gallon	0.0	1.4	3.4	2.0	0.0	6.8

As-Generated — Stored: 0.9 | Projected: 6.8 | Total: 7.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	1.8	0.0	0.0	0.0	0.0	10.7
RH Canister	0.0	0.0	0.0	0.0	0.0	0.0

Final Form — Stored: 1.8 | Projected: 8.9 | Total: 10.7

TWBIR ID: AW-W028

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Y-90	8.63E-01
Zr-95	2.12E-04

Waste Stream Description	This waste stream consists of metal or wook framed filters. Filters are 2'x2'x0.5'. The filters have screen mesh covering high efficiency filtering media. The concentration of radioisotopes and RCRA metals varies in each filter. These filters were generated from the decontamination of the analytical hot cells in 1993 and 1994.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: AW-W046

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	FCF RLWS Filters and Resin	**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	AW	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
D006

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	97.00	0.00	0.00
Aluminum-Base Metal/Alloys	1.80	0.00	0.00
Other Metal/Alloys	203.60	0.00	0.00
Other Inorganic Materials	11.20	0.00	0.00
Cellulosics	6.30	0.00	0.00
Rubber	0.40	0.00	0.00
Plastics	4.10	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	511.00		
Packaging Material, Plastic	21.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Pollution Control or Waste Treatment Process

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.80E-01
Ce-144	5.33E-03
Cs-134	2.93E-03
Cs-137	2.31E-01
Eu-154	8.18E-04
Eu-155	1.86E-03
Mn-54	2.94E-06
Pu-239	3.16E-02
Rh-106	3.69E-02
Sr-90	8.25E-01
U-235	3.25E-06
U-238	4.42E-07
Y-90	8.25E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : AW-W046

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister used to overpack	0.0	0.4	1.0	0.5	0.0	2.0

As-Generated	Stored	0.0	Projected	2.0	Total	2.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	0.0	0.0	2.7

Final Form	Stored	0.0	Projected	2.7	Total	2.7

TWBIR ID: AW-W046

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The filters consist of two types. One is a depth filter made entirely of polypropylene. The other is a pleated filter made up of a glass fiber filter media with polyester support. This media is housed in a polypro;ylene cage with silicone O-rings. The filters are used primarily for the removal of cadmium. However, they also remove uranium and plutonium.
Waste Stream Source Description	N/A
Current Container Comments	Since no container was identified for As-Gen, this data is copied from Final Form. Tbrown
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: AW-W047

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	FCF Crucible (Graphite)			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	AW	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	97.00	0.00	0.00
Aluminum-Base Metal/Alloys	1.80	0.00	0.00
Other Metal/Alloys	203.60	0.00	0.00
Other Inorganic Materials	11.20	0.00	0.00
Cellulosics	6.30	0.00	0.00
Rubber	0.40	0.00	0.00
Plastics	4.10	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	511.00		
Packaging Material, Plastic	21.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Pollution Control or Waste Treatment Process

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.80E-01
Ce-144	5.33E-03
Cs-134	2.93E-03
Cs-137	2.31E-01
Eu-154	8.18E-04
Eu-155	1.86E-03
Mn-54	2.94E-06
Pu-239	3.16E-02
Rh-106	3.69E-02
Sr-90	8.25E-01
U-235	3.25E-06
U-238	4.42E-07
Y-90	8.25E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : AW-W047

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister used to overpack	0.0	0.0	0.0	0.0	0.0	2.0

As-Generated	Stored	0.0	Projected	2.0	Total	2.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	0.0	0.0	2.7

Final Form	Stored	0.0	Projected	2.7	Total	2.7

TWBIR ID: AW-W047

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The crucible waste stream in the Fuel Conditioning Facility (FCF) has been characterized as TRU waste. Presently, three 45 gallon RH-TRU containers are filled with crushed crucible material, and are awaiting shipment to the radioactive scrap and waste facility (RSWF). Befor crushing, crucibles are cleaned below their clean tare weight. Based on samples taken on crushed crucible material, there are only a few tenths of grams of fissile material (u-235 or Pu-239 present per crucible disposed.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: AW-W048

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	FCF Indirect RH-MTRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	AW	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
D006

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	179.90	0.00	0.00
Aluminum-Base Metal/Alloys	32.30	0.00	0.00
Other Metal/Alloys	5.40	0.00	0.00
Other Inorganic Materials	40.00	0.00	0.00
Cellulosics	39.30	0.00	0.00
Rubber	13.70	0.00	0.00
Plastics	51.80	0.00	0.00
Solidified, Inorganic Matrix	3.60	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.60	0.00	0.00
Soils	2.30	0.00	0.00
Packaging Material, Steel	511.00		
Packaging Material, Plastic	21.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.80E-01
Ce-144	5.33E-03
Cs-134	2.93E-03
Cs-137	2.31E-01
Eu-154	8.18E-04
Eu-155	1.86E-03
Mn-54	2.94E-06
Pu-239	3.16E-02
Rh-106	3.69E-02
Sr-90	8.25E-01
U-235	3.25E-06
U-238	4.42E-07
Y-90	8.25E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : AW-W048

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister used to overpack	0.0	0.0	0.0	0.0	0.0	3.4

As-Generated	Stored	0.0	Projected	3.4	Total	3.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	0.0	0.0	4.4

Final Form	Stored	0.0	Projected	4.4	Total	4.4

TWBIR ID: AW-W048

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	FCF Argon cell RH-MTRU waste - rags, plastic, glass, rubber, paper, cardboard, aluminum foil, metal, brushes, copper, bolts, smears, nylon sling, insulation, o-rings, etc.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: AW-W049

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	FMF glovebox waste	**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	AW	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	20.00	10.00	30.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	15.00	0.00	30.00
Cellulosics	90.00	55.00	120.00
Rubber	0.00	0.00	0.00
Plastics	90.00	50.00	120.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	115.00		
Packaging Material, Plastic	30.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	Yes
Source:	N/A

TRUCON Codes

125B

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-239	4.30E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : AW-W049

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.0	1.7	4.2	2.5	0.0	8.5

As-Generated	Stored	0.0	Projected	8.5	Total	8.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	8.5

Final Form	Stored	0.0	Projected	8.5	Total	8.5

TWBIR ID: AW-W049

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	FMF experiment glovebox waste.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: BCLCH-MT01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	JN-4 D&D Debris Waste			**Inventory Date**	3/26/2003
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	BC	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5490

EPA Codes

As-Generated
D005, D006, D007, D008, D009, D011, F001, F002, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	60.00	0.00	120.00
Aluminum-Base Metal/Alloys	60.00	0.00	120.00
Other Metal/Alloys	60.00	0.00	120.00
Other Inorganic Materials	72.00	24.00	120.00
Cellulosics	204.50	24.00	385.00
Rubber	122.41	4.81	240.00
Plastics	240.60	96.20	385.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	62.41	4.81	120.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	36.05	0.00	72.10
Soils	0.00	0.00	0.00
Packaging Material, Steel	124.55		
Packaging Material, Plastic	7.54		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

BC321A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.24E+00
Pu-238	3.40E+02
Pu-239	5.49E+00
Pu-240	1.44E+00
Pu-241	6.87E+01
Pu-242	2.34E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : BCLCH-MT01

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Bin/ M-111	3.8	0.0	0.0	0.0	0.0	3.8
Drum / 55 gallon	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated	Stored	Projected	Total
	5.2	0.0	5.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.5	0.0	0.0	0.0	0.0	1.5
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8

Final Form	Stored	Projected	Total
	5.2	0.0	5.2

TWBIR ID: BCLCH-MT01

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	JN-4 D&D Debris Waste consists of heterogeneous debris waste generated by the activities conducted in Building JN-4. The waste includes paper, plastic, rubber, paint chips, crushed metal cans, prefilters, glass, concrete, grout, lead shot, and miscellaneous laboratory equipment
Waste Stream Source Description	N/A
Current Container Comments	These bins may be repackaged into drums.
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	Plan to ship to HUB for characterization and certification. TB @ LANL assumed M-111 bins repackaged into SWBs since volumes are the same. This allows us to capture the volume for PA puposes. Understand this is not a commitment by BCL.

TWBIR ID: BCLRH-MT01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	Hazardous organic debris			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	BC	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
D005, D007, D008, D009, D011, F001, F002, F003, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	28.60	0.00	0.00
Aluminum-Base Metal/Alloys	8.40	0.00	0.00
Other Metal/Alloys	101.00	0.00	0.00
Other Inorganic Materials	10.10	0.00	0.00
Cellulosics	204.00	0.00	0.00
Rubber	27.00	0.00	0.00
Plastics	101.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	18.50	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	1.70	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	770.00		
Packaging Material, Plastic	17.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

BC321A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.87E+00
Am-242m	5.73E-03
Am-243	2.15E-02
Cm-243	1.51E-02
Cm-244	2.31E+00
Cm-245	3.67E-04
Co-60	1.77E+01
Cs-137	5.72E+01
Np-237	2.59E-04
Pu-238	2.76E+00
Pu-239	3.55E-01
Pu-240	5.78E-01
Pu-241	4.66E+01
Pu-242	1.73E-03

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : BCLRH-MT01

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	Projected	Total
	0.6	0.0	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.9	0.0	0.0	0.0	0.0	0.9

Final Form	Stored	Projected	Total
	0.9	0.0	0.9

TWBIR ID: BCLRH-MT01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Sr-90	3.76E+01
Tc-99	1.08E-02
U-232	2.64E-05
U-233	3.08E-08
U-234	9.89E-04
U-235	1.44E-05
U-236	1.91E-04
U-238	2.80E-04

Waste Stream Description Hazardous organic debris consists of the materials generated during repackaging of the waste materials generated from research and development activities conducted in Building JN-1. This waste consists primarily of iron based metals, paper, plastic, cloth, aluminum, cellulosics, rubber, and lead items (bricks, shot, apron, and gloves).

Waste Stream Source Description N/A

Current Container Comments UN1A2 55 gal steel drums (outer dia. = 24 in, outer ht = 35 inches, 22.7 kg tare wt, with inner 110 mil plastic or 0.105 inch thick steel liner). Each drum and steel liner equipped with a Nucfil-013 filter installed in accordance with WA-OP-006.

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: BCLRH-T001

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	Pool Water Filter Resin	**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	BC	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3211

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	5.60	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	5.60	0.00	0.00
Cellulosics	6.70	0.00	0.00
Rubber	5.60	0.00	0.00
Plastics	6.70	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	33.70	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	129.20	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	770.00		
Packaging Material, Plastic	17.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

BC321B

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.99E-02
Am-242m	3.97E-05
Am-243	1.49E-04
Cm-243	1.04E-04
Cm-244	1.60E-02
Cm-245	2.55E-06
Co-60	1.23E-01
Cs-137	3.97E-01
Np-237	1.79E-06
Pu-238	1.92E-02
Pu-239	2.46E-03
Pu-240	4.01E-03
Pu-241	3.23E-01
Pu-242	1.20E-05

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : BCLRH-T001

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	Projected	Total
	0.4	0.0	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.9	0.0	0.0	0.0	0.0	0.9

Final Form	Stored	Projected	Total
	0.9	0.0	0.9

TWBIR ID: BCLRH-T001

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Sr-90	2.60E-01
Tc-99	7.48E-05
U-232	1.83E-07
U-233	2.13E-10
U-234	6.87E-06
U-235	1.00E-07
U-236	1.33E-06
U-238	1.94E-06

Waste Stream Description Pool Water Filter Resin consists of ion-exchange resin (nuclear grade), which was used for deionizing the Transfer/Storage Pool water. The CM-2 Regenerated Mixed Bed Resin used was contained in muslin bags (cotton bags). The matrix will also include Floor Dry (diatomaceous earth) used as an absorbent during the original packaging of this waste and 10 lbs. of absorbent (50:50 Floor Dry and Radsorb) added during repackaging to absorb any water from condensation or dewatering

Waste Stream Source Description N/A

Current Container Comments UN1A2 55 gallon steel drums. Each drum and steel liner shall be equipped with a Nucfil-013 drum filter installed in accordance with WA-OP-06, Procurement and Inspections of Packagings for Hazardous Materials Shipments.

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: BCLRH-T002

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	Pool Water Prefilters and Debris			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	BC	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	8.40	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	379.30	0.00	0.00
Cellulosics	8.40	0.00	0.00
Rubber	8.40	0.00	0.00
Plastics	8.40	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	25.30	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	18.50	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	770.00		
Packaging Material, Plastic	17.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

BC321A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.33E-01
Cm-244	2.78E-01
Co-60	5.87E+00
Cs-134	1.49E-04
Cs-137	4.68E-01
Eu-154	2.12E-01
Pu-238	6.23E-01
Pu-239	6.58E-02
Pu-240	1.07E-01
Sb-125	1.56E-03
Sr-90	1.89E+01
Tl-208	1.28E-03
U-233	9.04E-09
U-234	2.92E-04

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : BCLRH-T002

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	1.2	0.0	0.0	0.0	0.0	1.2

As-Generated	Stored	Projected	Total
	1.2	0.0	1.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	1.8	0.0	0.0	0.0	0.0	1.8

Final Form	Stored	Projected	Total
	1.8	0.0	1.8

TWBIR ID: BCLRH-T002

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
U-235	4.38E-06
U-236	5.76E-05
U-238	8.34E-05

Waste Stream Description Pool Water Prefilters and Debris consists of the cartridge prefilters and debris generated during the change-out of resin used for filtering the Transfer/Storage Pool water. The filter matrix is composed f glass and cellulose fibers combined with melamine resin. The end caps are polypropylene and the filters are placed in the canisters with rubber gaskets (butyl/nitrile). Other debris that may be present from the original packaging may include paper (blotter paper and Floor Dry bags), plastic liners, rubber gaskets, muslin resin bags, rubber gloves, and other miscellaneous plastic, cellulosics, and metal materials. The waste matrix will also include Floor Dry and Radsorb added during repackaging to absorb any water from condensation or dewatering.

Waste Stream Source Description N/A

Current Container Comments UN1A2 55 gallon steel drums. Each drum and steel liner shall be equipped with a Nucfil-013 drum filter installed in accordance with WA-OP-06, Procurement and Inspections of Packagings for Hazardous Materials Shipments

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: BCLRH-T003

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	Organic Debris			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	BC	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	8.00	0.00	0.00
Aluminum-Base Metal/Alloys	8.00	0.00	0.00
Other Metal/Alloys	1.60	0.00	0.00
Other Inorganic Materials	9.60	0.00	0.00
Cellulosics	31.90	0.00	0.00
Rubber	23.90	0.00	0.00
Plastics	95.60	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	17.60	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	1.60	0.00	0.00
Soils	1.60	0.00	0.00
Packaging Material, Steel	770.00		
Packaging Material, Plastic	17.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

BC321A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.43E-01
Am-242m	2.85E-04
Am-243	1.07E-03
Cm-243	7.51E-04
Cm-244	1.15E-01
Cm-245	1.83E-05
Co-60	8.83E-01
Cs-137	2.85E+00
Np-237	1.29E-05
Pu-238	1.37E-01
Pu-239	1.77E-02
Pu-240	2.88E-02
Pu-241	2.32E+00
Pu-242	8.63E-05

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : BCLRH-T003

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	11.0	0.0	0.0	0.0	0.0	11.2

As-Generated	Stored	11.0	Projected	0.2	Total	11.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	16.0	0.0	0.0	0.0	0.0	16.9

Final Form	Stored	16.0	Projected	0.9	Total	16.9

TWBIR ID: BCLRH-T003

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Sr-90	1.87E+00
Tc-99	5.37E-04
U-232	1.32E-06
U-233	1.53E-09
U-234	4.92E-05
U-235	7.17E-07
U-236	9.56E-06
U-238	1.39E-05

Waste Stream Description Organic Debris consists of the materials generated during repackaging of the waste materials generated from research and development activities conducted in Building JN-1. This waste consists primarily of rubber debris material including polyethylene, polyvinyl chloride, nylon, Styrofoam, Tygon, plexiglass, and neoprene. Wood debris with no signs of hazardous waste contamination may also be included. Waste items may include non-deteriorated sheeting, hose/tubing, respirators, boots, rain suits, o-rings, electrical cords, safety glasses, plexiglass panels, plywood, and pallets. The waste matrix will also include Floor Dry and Radsorb added during repackaging to absorb any water from condensation or dewatering

Waste Stream Source Description N/A

Current Container Comments UN1A2 55 gallon steel drums. Each drum and steel liner shall be equipped with a Nucfil-013 drum filter installed in accordance with WA-OP-06, Procurement and Inspections of Packagings for Hazardous Materials Shipments.

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: BCLRH-T004

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	Inorganic Debris			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	BC	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5190

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	267.10	0.00	0.00
Aluminum-Base Metal/Alloys	121.60	0.00	0.00
Other Metal/Alloys	1.60	0.00	0.00
Other Inorganic Materials	113.20	0.00	0.00
Cellulosics	17.80	0.00	0.00
Rubber	3.20	0.00	0.00
Plastics	97.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	17.80	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	1.60	0.00	0.00
Soils	40.40	0.00	0.00
Packaging Material, Steel	770.00		
Packaging Material, Plastic	17.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

BC322A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.60E+00
Am-242m	9.16E-03
Am-243	3.44E-02
Cm-243	2.41E-02
Cm-244	3.70E+00
Cm-245	5.89E-04
Co-60	2.84E+01
Cs-137	9.16E+01
Np-237	4.15E-04
Pu-238	4.43E+00
Pu-239	5.69E-01
Pu-240	9.30E-01
Pu-241	7.48E+01
Pu-242	2.78E-03

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : BCLRH-T004

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	10.0	0.0	0.0	0.0	0.0	10.2

As-Generated	Stored	10.0	Projected	0.2	Total	10.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	14.2	0.0	0.0	0.0	0.0	15.1

Final Form	Stored	14.2	Projected	0.9	Total	15.1

TWBIR ID: BCLRH-T004

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Sr-90	6.03E+01
Tc-99	1.73E-02
U-232	4.24E-05
U-233	4.94E-08
U-234	1.58E-03
U-235	2.32E-05
U-236	3.07E-04
U-238	4.50E-04

Waste Stream Description Inorganic Debris consists of glass and metal debris generated during repackaging of the waste materials generated from research and development activities conducted in Building JN-1. Glass debris includes laboratory glassware, windows, and various glass apparatus. Metal debris may include deteriorated berry cans, cable wire, planchets, sign, valves, piping, strapping, tools, foil, sheeting, fixtures, equipment, hardware, fuel rod cladding, and Metmounts (sectioned metal material embedded in a plastic matrix). Metals of construction include stainless steel, aluminum, iron, copper, beryllium, and zirconium alloy (Zr-2, Zr-4). The waste matrix will also include Floor Dry and Radsorb added during repackaging to absorb any water from condensation or dewatering.

Waste Stream Source Description N/A

Current Container Comments UN1A2 55 gallon steel drums. Each drum and steel liner shall be equipped with a Nucfil-013 drum filter installed in accordance with WA-OP-006, Procurement and Inspections of Packagings for Hazardous Materials Shipments.

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: BCLRH-T005

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	Tri-Nuc Filters			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	BC	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	61.70	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	22.50	0.00	0.00
Cellulosics	5.60	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	39.30	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	16.90	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	12.40	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	770.00		
Packaging Material, Plastic	17.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

BC321A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.09E+00
Am-242m	8.18E-03
Am-243	3.05E-02
Cm-243	2.14E-02
Cm-244	3.29E+00
Cm-245	5.24E-04
Co-60	2.52E+01
Cs-137	8.13E+01
Np-237	3.68E-04
Pu-238	3.94E+00
Pu-239	5.05E-01
Pu-240	8.23E-01
Pu-241	6.64E+01
Pu-242	2.47E-03

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : BCLRH-T005

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	Projected	Total
	0.4	0.0	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.9	0.0	0.0	0.0	0.0	0.9

Final Form	Stored	Projected	Total
	0.9	0.0	0.9

TWBIR ID: BCLRH-T005

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Sr-90	5.33E+01
Tc-99	1.54E-02
U-232	3.77E-05
U-233	4.38E-08
U-234	1.41E-03
U-235	2.06E-05
U-236	2.73E-04
U-238	4.00E-04

Waste Stream Description Tri-Nuc Filters consists of filter cartridges used in the underwater vacuum system for cleaning the surfaces and filtering the water of the Transfer/Storage Pool. The cartridges are 30" long and 6" in diameter and consist of media enclosed within a stainless steel screen shroud, and aluminum screen reinforced plastisol end caps. The filter media is composed of polypropylene, melt brown reinforced typar, and is available in 0.3, 1, 5, 10, and 20-micron mesh sizes. The waste matrix will also include Floor Dry (diatomaceous earth) and Radsorb (50:50 mix) added to each liner.

Waste Stream Source Description N/A

Current Container Comments UN1A2 55 gallon steel drums. Each drum and steel liner shall be equipped with a Nucfil-013 drum filter installed in accordance with WA-OP-06, Procurement and Inspections of Packagings for Hazardous Materials Shipments.

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: BCLRH-T006

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	Slugs			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	BC	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3150

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	3.40	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	16.80	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	154.50	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	770.00		
Packaging Material, Plastic	17.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

BC321B

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.58E-01
Am-242m	1.91E-03
Am-243	7.17E-03
Cm-243	5.02E-03
Cm-244	7.71E-01
Cm-245	1.23E-04
Co-60	5.91E+00
Cs-137	1.91E+01
Np-237	8.65E-05
Pu-238	9.23E-01
Pu-239	1.19E-01
Pu-240	1.94E-01
Pu-241	1.56E+01
Pu-242	5.80E-04

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : BCLRH-T006

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.9	0.0	0.0	0.0	0.0	0.9

Final Form	Stored	Projected	Total
	0.9	0.0	0.9

TWBIR ID: BCLRH-T006

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Sr-90	1.26E+01
Tc-99	3.60E-03
U-232	8.83E-06
U-233	1.03E-08
U-234	3.30E-04
U-235	4.84E-06
U-236	6.40E-05
U-238	9.37E-05

Waste Stream Description Slugs were produced in Alpha-Gamma Cell 7 by dissolving irradiated (burnup) fuel in an acid solution, which was then diluted several times and mixed with cement and water and allowed to solidify in Styrofoam cups. The slugs will contain only limited amounts of dissolved fuel because of the dilution. The Styrofoam cups will be segregated from the slugs prior to final packaging. The waste matrix will also include Floor Dry and Radsorb added during repackaging to absorb any water from condensation or dewatering

Waste Stream Source Description N/A

Current Container Comments UN1A2 55 gallon steel drums. Each drum and steel liner shall be equipped with a Nucfil-013 drum filter installed in accordance with WA-OP-06, Procurement and Inspections of Packagings for Hazardous Materials Shipments

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: BCLRH-T007

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	Laundry Sludge			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	BC	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3129

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	59.00	0.00	0.00
Cellulosics	10.10	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	3.40	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	10.10	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	770.00		
Packaging Material, Plastic	17.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

BC321A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.92E-03
Am-242m	1.58E-05
Am-243	5.91E-05
Cm-243	4.16E-05
Cm-244	6.38E-03
Cm-245	1.01E-06
Co-60	4.88E-02
Cs-137	1.58E-01
Np-237	7.13E-07
Pu-238	7.62E-03
Pu-239	9.79E-04
Pu-240	1.60E-03
Pu-241	1.29E-01
Pu-242	4.77E-06

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : BCLRH-T007

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.9	0.0	0.0	0.0	0.0	0.9

Final Form	Stored	Projected	Total
	0.9	0.0	0.9

TWBIR ID: BCLRH-T007

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Sr-90	1.04E-01
Tc-99	2.97E-05
U-232	7.29E-08
U-233	8.48E-11
U-234	2.73E-06
U-235	4.00E-08
U-236	5.28E-07
U-238	7.74E-07

Waste Stream Description Laundry sludge consists of a particulate sludge (dirt, debris, and lint) generated when the laundry system still box requires cleaning. The box is heated to boil off the water contained in the particulate material. The resulting sludge is raked into plastic bags containing Radsorb (10%-20% by weight) to absorb any water from condensation or dewatering.

Waste Stream Source Description N/A

Current Container Comments UN1A2 55 gallon steel drums. Each drum and steel liner shall be equipped with a Nucfil-013 drum filter installed in accordance with WA-OP-06, Procurement and Inspections of Packagings for Hazardous Materials Shipments.

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: BCLRH-T008

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	Laundry Sock Filters and Lint			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	BC	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	6.70	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	39.30	0.00	0.00
Cellulosics	134.80	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	39.30	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	16.90	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	12.40	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	770.00		
Packaging Material, Plastic	17.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

BC321A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.44E-02
Am-242m	1.89E-04
Am-243	7.06E-04
Cm-243	4.95E-04
Cm-244	7.62E-02
Cm-245	1.21E-05
Co-60	5.84E-01
Cs-137	1.89E+00
Np-237	8.51E-06
Pu-238	9.11E-02
Pu-239	1.17E-02
Pu-240	1.91E-02
Pu-241	1.54E+00
Pu-242	5.70E-05

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : BCLRH-T008

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	Projected	Total
	0.4	0.0	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.9	0.0	0.0	0.0	0.0	0.9

Final Form	Stored	Projected	Total
	0.9	0.0	0.9

TWBIR ID: BCLRH-T008

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Sr-90	1.24E+00
Tc-99	3.56E-04
U-232	8.74E-07
U-233	1.01E-09
U-234	3.26E-05
U-235	4.77E-07
U-236	6.31E-06
U-238	9.25E-06

Waste Stream Description Laundry Sock Filters and Lint are generated during the operation of the BCLDP TRU waste laundry system in the JN-1 Pump Room. This stream includes Rosedale polypropylene high-efficiency liquid filter bags and cotton lint from laundered mop heads and rags. No RCRA waste was processed through the laundry

Waste Stream Source Description N/A

Current Container Comments UN1A2 55 gallon steel drums. Each drum and steel liner shall be equipped with a Nucfil-013 drum filter installed in accordance with WA-OP-06, Procurement and Inspections of Packagings for Hazardous Materials Shipments.

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: BCLRH-T009

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	Pressure Wash Filters			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	BC	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	22.50	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	168.60	0.00	0.00
Cellulosics	42.10	0.00	0.00
Rubber	8.40	0.00	0.00
Plastics	15.50	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	35.10	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	91.20	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	770.00		
Packaging Material, Plastic	17.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

BC321A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.18E-01
Am-242m	6.37E-04
Am-243	2.38E-03
Cm-243	1.67E-03
Cm-244	2.56E-01
Cm-245	4.08E-05
Co-60	1.97E+00
Cs-137	6.37E+00
Np-237	2.87E-05
Pu-238	3.07E-01
Pu-239	3.94E-02
Pu-240	6.43E-02
Pu-241	5.16E+00
Pu-242	1.92E-04

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : BCLRH-T009

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	1.0	0.0	0.0	0.0	0.0	1.0

As-Generated	Stored	Projected	Total
	1.0	0.0	1.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	1.8	0.0	0.0	0.0	0.0	1.8

Final Form	Stored	Projected	Total
	1.8	0.0	1.8

TWBIR ID: BCLRH-T009

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Sr-90	4.17E+00
Tc-99	1.20E-03
U-232	2.93E-06
U-233	3.42E-09
U-234	1.10E-04
U-235	1.60E-06
U-236	2.13E-05
U-238	3.11E-05

Waste Stream Description Pressure Wash Filters used in the pressure wash water recovery system for filtering wash water transferred for evaporation. Three types of filter/cartridges were used. Cotton media filters consisting of cotton yarn and cotton media wound around a polypropylene core. Resin media type cartridges composed of glass and cellulose fibers combined with melamine resin, and a polypropylene sock filter consisting of polypropylene material supported by a carbon steel ring. Small quantities of sludge collected in the filter housings and settling tank bottoms are included in this waste stream. The waste matrix also includes Radsorb added to each liner.

Waste Stream Source Description N/A

Current Container Comments UN1A2 55 gallon steel drums. Each drum and steel liner shall be equipped with a Nucfil-013 drum filter installed in accordance with WA-OP-006, Procurement and Inspections of Packagings for Hazardous Materials Shipments.

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments Plan to ship steel 55-gallon UN1A2 drums in a 5-drum pallet inside the CNS 10-160B package

TWBIR ID: BCLRH-T010

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	Sabotage Pieces			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	BC	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5111

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	129.20	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	14.60	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	14.60	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	770.00		
Packaging Material, Plastic	17.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

BC321A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.61E+00
Am-242m	4.84E-02
Am-243	7.83E-02
Cm-243	4.39E-02
Cm-244	4.11E+00
Cm-245	8.76E-04
Cm-246	1.80E-04
Cs-137	8.04E+02
Np-237	5.02E-03
Pu-238	1.67E-02
Pu-239	1.43E-03
Pu-240	1.75E-02
Pu-241	1.97E-01
Pu-242	1.08E-05

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : BCLRH-T010

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.9	0.0	0.0	0.0	0.0	0.9

Final Form	Stored	Projected	Total
	0.9	0.0	0.9

TWBIR ID: BCLRH-T010

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Sr-90	4.35E+02
Tc-99	1.54E-01
U-233	4.86E-07
U-234	6.05E-06
U-235	5.45E-08
U-236	1.18E-06
U-238	1.45E-06

Waste Stream Description	Sabotage Pieces consist of materials generated during repackaging of waste generated during research and development activities conducted on sabotage testing of model casks using simulated vitrified high-level waste. This waste stream consists primarily of iron-based metals.
Waste Stream Source Description	N/A
Current Container Comments	UN1A2 55 gallon steel drums. Each drum and steel liner shall be equipped with a Nucfil-013 drum filter installed in accordance with WA-OP-06, Procurement and Inspections of Packagings for Hazardous Materials Shipments
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	Plan to ship steel 55-gallon UN1A2 drums in a 5-drum pallet inside the CNS 10-160B package

TWBIR ID: BCLRH-T011

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	Hydraulic Room Sludge and Debris			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	BC	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3212

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	7.90	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	23.60	0.00	0.00
Cellulosics	40.80	0.00	0.00
Rubber	7.90	0.00	0.00
Plastics	40.80	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	283.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	141.30	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	770.00		
Packaging Material, Plastic	17.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

BC321A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.34E-02
Cm-244	5.37E-03
Co-60	1.07E-02
Cs-137	1.61E-01
Eu-152	3.06E-03
Pu-238	7.92E-03
Pu-239	2.98E-03
Sr-90	8.70E-02
U-234	5.68E-06
U-235	2.03E-07
U-238	1.21E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : BCLRH-T011

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	2.9	0.0	0.0	0.0	0.0	2.9

As-Generated	Stored	2.9	Projected	0.0	Total	2.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	4.4	0.0	0.0	0.0	0.0	4.4

Final Form	Stored	4.4	Projected	0.0	Total	4.4

TWBIR ID: BCLRH-T011

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Hydraulic Room Sludge and Debris waste consists of rubble, sludge, and absorbent materials as well as the plastic bags that the waste is in. The hydraulic sludge was absorbed using a greater than 50% No Char and Radsorb polymers. Then the hydraulic sludge was packed in plastic bags with additional No Char, Radsob, and Floor Dry. Prior to packaging, 10 pounds of absorbent (50:50 Floor Dry and Radsorb) was added to the liner to absorb and water from condensation or dewatering
Waste Stream Source Description	N/A
Current Container Comments	UN1A2 55 gallon steel drums. Each drum and steel liner shall be equipped with a Nucfil-013 drum filter installed in accordance with WA-OP-006, Procurement and Inspections of Packagings for Hazardous Materials Shipments.
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	May be mixed TRU. Plan to ship steel 55-gallon UN1A2 drums in a 5-drum pallet inside the CNS 10-160B package. Some of this waste will go to WCS for interim storage in the 72B cask.

TWBIR ID: BT-T001

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	BT-T001	**Handling**	RH	**Stream Name**	Irradiated TRU material waste			**Inventory Date**	9/30/2002
Local ID	BT-T001	**Waste Type**	TRU	**Generator Site**	BT	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	200.00	150.00	250.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	10.00	0.00	20.00
Rubber	0.00	0.00	0.00
Plastics	500.00	450.00	550.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	1400.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.27E+00
Am-243	5.96E-03
Ba-137m	3.10E+03
C-14	7.98E-02
Cf-249	1.15E-10
Cf-251	5.40E-12
Cm-243	6.72E-03
Cm-244	3.82E-01
Cm-245	4.07E-05
Cm-246	6.96E-06
Cm-247	1.60E-11
Cm-248	2.88E-11
Co-60	1.40E+02
Cs-134	0.00E+00

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : BT-T001

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Insert	2.7	0.0	0.0	0.0	0.0	2.7

As-Generated	Stored	2.7	Projected	0.0	Total	2.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister used to overpack	2.0	0.0	0.0	0.0	0.0	2.0

Final Form	Stored	2.0	Projected	0.0	Total	2.0

TWBIR ID: BT-T001

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Cs-137	3.22E+03
Eu-152	1.40E+02
Eu-154	1.40E+02
Fe-55	0.00E+00
I-129	1.05E-03
Kr-85	0.00E+00
Ni-59	1.15E+01
Ni-63	5.60E+02
Np-237	8.47E-03
Pm-147	1.40E+02
Pu-238	1.40E+02
Pu-239	1.09E-01
Pu-240	2.23E-01
Pu-241	2.38E+01

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Pu-242	1.74E-03
Pu-244	9.95E-11
Se-79	1.99E-02
Sm-151	1.55E+01
Sn-126	1.44E-02
Sr-90	3.22E+03
Tc-99	7.04E-01
Th-232	8.47E-12
U-232	2.02E-03
U-234	2.98E-01
U-235	3.92E-03
U-236	4.47E-02
U-238	1.81E-05
Y-90	3.22E+03

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Zr-93	1.69E-01

Waste Stream Description Specimen processing fines, material, and debris.

Waste Stream Source Description Specimen processing fines, material, and debris resulting from operations involving destructive evaluations of irradiated fuel specimens.

Current Container Comments N/A

EPA Comments No regulated contaminants present in waste stream.

Management Comments Bettis is not a long-term storage facility. TRU will be shipped off-site as directed by DOE-HDQ.

Acceptance Comments Data date is 10/7/02

Final Form Comments Original data showed 3 SWBs. Int. volume and # stored changed to more accurately reflect the waste volume of 2 m3 as follows:
2 m3 / .200 m3 / drum = 9.615 drums, rounded to 10 drums.
Tb 3/27/03.

TWBIR ID: BT-T002

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	BT-T002	**Handling**	CH	**Stream Name**	Contaminated Piping System			**Inventory Date**	9/30/2002
Local ID	BT-T002	**Waste Type**	TRU	**Generator Site**	BT	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5111

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	430.00	340.00	500.00
Aluminum-Base Metal/Alloys	35.00	28.00	40.00
Other Metal/Alloys	1.00	0.00	10.00
Other Inorganic Materials	1.00	0.00	5.00
Cellulosics	0.50	0.00	1.00
Rubber	7.00	6.00	10.00
Plastics	35.00	30.00	40.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	1.00	0.00	10.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.53E-04
Am-243	2.13E-06
Ba-137m	1.10E+00
C-14	2.85E-05
Cf-249	4.11E-14
Cf-251	1.93E-15
Cm-243	2.40E-06
Cm-244	1.36E-04
Cm-245	1.46E-08
Cm-246	2.49E-09
Cm-247	5.70E-15
Cm-248	1.03E-14
Co-60	5.00E-02
Cs-137	1.15E+00

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : BT-T002

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box /	18.9	0.0	0.0	0.0	0.0	18.9

As-Generated	Stored	Projected	Total
	18.9	0.0	18.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	18.6	0.0	0.0	0.0	0.0	18.6

Final Form	Stored	Projected	Total
	18.6	0.0	18.6

TWBIR ID: BT-T002

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Eu-152	5.00E-02
Eu-154	5.00E-02
I-129	3.74E-07
Ni-59	4.11E-03
Ni-63	2.00E-01
Np-237	3.03E-06
Pm-147	5.00E-02
Pu-238	5.00E-02
Pu-239	3.90E-05
Pu-240	7.97E-05
Pu-241	8.52E-03
Pu-242	6.20E-07
Pu-244	3.56E-14
Se-79	7.10E-06

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Sm-151	5.53E-03
Sn-126	5.15E-06
Sr-90	1.15E+00
Tc-99	2.52E-04
Th-232	3.03E-15
U-232	7.20E-07
U-234	1.07E-04
U-235	1.40E-06
U-236	1.60E-05
U-238	6.46E-09
Y-90	1.15E+00
Zr-93	6.05E-05

Waste Stream Description Piping, pumps, tanks, and other metal items, and debris.

Waste Stream Source Description Piping, pumps, tanks, other metal items, and debris from shutdown of obsolete systems.

Current Container Comments N/A

EPA Comments No regulated contaminants present in waste stream.

Management Comments Waste volumes revised to reflect latest estimates. This waste contains no classified material. Radionuclide data generated date is 10/2002. There are no pyrochemical salts, PCB's or other materials of particular concern. Bettis is not a long term stroage facility. TRU will be shipped off-site as directed by DOE-HDQ.

Acceptance Comments Data date is 10/7/2002..

Final Form Comments N/A

TWBIR ID: ET-C1-B55

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	ET-W034	**Handling**	CH	**Stream Name**	PU Facility D&D CC1-B55			**Inventory Date**	9/30/2002
Local ID	ET	**Waste Type**	MTRU	**Generator Site**	ET	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3290

EPA Codes

As-Generated
F002

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	94.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	141.00	0.00	0.00
Plastics	47.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	660.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

ET126

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.90E-02
Pu-238	1.40E-02
Pu-239	7.40E-02
Pu-240	3.70E-02
Pu-241	6.20E-01
U-234	2.80E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : ET-C1-B55

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55-gallon	0.8	0.0	0.0	0.0	0.0	0.8

As-Generated	Stored	0.8	Projected	0.0	Total	0.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8

Final Form	Stored	0.8	Projected	0.0	Total	0.8

TWBIR ID: ET-C1-B55

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Generated after DOE fuel decladding operations and the clean-up of facilities. Wastes inlude soft trash (paper, plastic, rubber), vermiculite, solidified oil. Radiological contamination includes TRU (Pu-239/241/238/242,Am-241). The waste was packaged to the 1987 Idaho WIPP criteria in 4 55-gal drums . Waste stream is no longer generated.
Waste Stream Source Description	Wastes generated from the clean-up of the Plutonium Facility (Bldg 55) and the Hot Lab (Bldg 20) at the end of operations, but before any D&D activitied.
Current Container Comments	Waste components and wt%: solidified oil (43-99%), plastic (1-12 %), rubber (0-27%), metal (0-17%).
EPA Comments	This waste stream was changed to a mixed waste stream because Freon was used and believed to still be residual. F002 was therefore added and now this is MTRU per Dennis Kneffe on 12/5/02.
Management Comments	This W.S. was packaged to Idaho WIPP 1987 criteria. Options for shipping the waste to a suitable site are being considered by DOE.
Acceptance Comments	To be shipped to Hanford for Certification.
Final Form Comments	This W.S. and others were originally packaged and certified in 1988 to WIPP WAC Rev. 2 by INEEL personnel. This waste stream was shipped to Hanford in December 2002.

TWBIR ID: ET-C1-D139

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Pu facility D&D (C1-D139)			**Inventory Date**	9/30/2002
Local ID	ET	**Waste Type**	MTRU	**Generator Site**	ET	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
D006

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	95.00	0.00	0.00
Rubber	31.00	0.00	0.00
Plastics	31.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

ET121

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.70E-02
Pu-238	7.90E-03
Pu-239	4.20E-02
Pu-240	2.10E-02
Pu-241	3.50E-01
Pu-242	9.50E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : ET-C1-D139

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: ET-C1-D139

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Heterogenous solid debris from disassembly of a glovebox.
Waste Stream Source Description	N/A
Current Container Comments	Waste components and wt%: plastic (10-15%), rubber (10-15%), face masks (5-10%), paper filters (10-15%), wood(40-50%)
EPA Comments	D006
Management Comments	Originally packaged to Idaho WIPP 1987 criteria.
Acceptance Comments	To be shipped to Hanford for certification.
Final Form Comments	This waste stream was shipped to Hanford in December 2002.

TWBIR ID: ET-C2-SEFOR

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Hot Laboratory D&D Waste (C2-SEFOR)			**Inventory Date**	9/30/2002
Local ID	ET	**Waste Type**	TRU	**Generator Site**	ET	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	139.00	0.00	0.00
Aluminum-Base Metal/Alloys	99.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	124.00	0.00	0.00
Rubber	10.00	0.00	0.00
Plastics	124.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

ET121

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.30E-01
Cs-137	1.80E-02
Pu-239	1.10E-01
Pu-240	3.70E-02
Pu-241	9.00E-01
Sr-90	1.30E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : ET-C2-SEFOR

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	1.2	0.0	0.0	0.0	0.0	1.2

As-Generated	Stored	1.2	Projected	0.0	Total	1.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.2	0.0	0.0	0.0	0.0	1.2

Final Form	Stored	1.2	Projected	0.0	Total	1.2

TWBIR ID: ET-C2-SEFOR

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Heterogeneous solid debris from cleanup/ disassembly of a glovebox.
Waste Stream Source Description	N/A
Current Container Comments	Waste components and wt%: plastic (10-60%), paper (0-25%), wood (0-30%), metal (0-25%), stainless steel (0-90%), strippable paint (0-2%), rubber (0-2%), plexiglass (0-1%)
EPA Comments	Radiological contamination data based on process knowledge and analysis of the packaged waste.
Management Comments	Originally packaged to Idaho WIPP 1987 Criteria.
Acceptance Comments	To be shipped to Hanford for certification.
Final Form Comments	This waste stream was shipped to Hanford in December 2002.

TWBIR ID: ET-R1-DLR

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	Hot Laboratory Drain Line Residue (R1-DLR)			**Inventory Date**	9/30/2002
Local ID	ET	**Waste Type**	TRU	**Generator Site**	ET	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3900

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	103.60	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	212.70	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.00		
Packaging Material, Plastic	26.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	Yes
Source:	Remediation/D&D Waste

TRUCON Codes

ET326

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.18E-02
Cs-137	2.85E+00
Pu-238	3.82E-03
Pu-239	1.47E-01
Pu-240	2.73E-02
Pu-241	1.25E-01
Sr-90	2.78E+00
U-235	2.18E-04
U-238	5.45E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : ET-R1-DLR

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated	Stored	1.5	Projected	0.0	Total	1.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	2.7	0.0	0.0	0.0	0.0	2.7
RH Canister	1.5	0.0	0.0	0.0	0.0	1.5

Final Form	Stored	4.1	Projected	0.0	Total	4.1

TWBIR ID: ET-R1-DLR

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Steel and fuel element fines from fuel declad grinding and cutting operations, plus sand, dirt, grinding materials, and concrete/dust particulate.
Waste Stream Source Description	N/A
Current Container Comments	Waste previously stored in shielded drums and other containers was consolidated for shipment. Data reflects change indicated in e-mail from D. Kneff to S. Lott dated 12/9/02.
EPA Comments	Waste characterization (radiological and chemical) based on process knowledge plus extensive sampling and analysis. Average PCB contaminant 132 ppm.
Management Comments	N/A
Acceptance Comments	To be shipped to Hanford for certification.
Final Form Comments	This waste stream was shipped to Hanford in December 2002.

TWBIR ID: ET-R2-D107

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	ET-W002	**Handling**	RH	**Stream Name**	Hot Lab & PU Facility D&D (R2-D107)			**Inventory Date**	9/30/2002
Local ID	ET	**Waste Type**	MTRU	**Generator Site**	ET	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
D008

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	29.00	0.00	0.00
Aluminum-Base Metal/Alloys	19.20	0.00	0.00
Other Metal/Alloys	67.80	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	19.20	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	9.80	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	48.60	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.00		
Packaging Material, Plastic	26.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

ET325

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.66E-01
Cs-137	7.95E-02
Pu-239	5.19E-01
Pu-240	1.82E-01
Pu-241	4.11E+00
Sr-90	5.61E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : ET-R2-D107

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55-gallon	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.9	0.0	0.0	0.0	0.0	0.9

Final Form	Stored	0.9	Projected	0.0	Total	0.9

TWBIR ID: ET-R2-D107

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Generated after DOE fuel decladding operations and the clean-up of facilities. Waste consists of a single 85-lb lead brick with surface transuranic contamination with other lead shielding and other waste (metals,filter,vermiculite and trash). Radiological contamination includes fission (Cs-137, Sr-90) and TRU (Pu-238/242/239/241, Am-241) . The waste was packaged to the 1987 Idaho WIPP criteria in a single 55-gal drum . Waste stream is no longer generated.
Waste Stream Source Description	Clean-up of Hot Lab at end of operations and before start of D&D activities.
Current Container Comments	Waste components and wt% ranges: paper and plastic (4-8%), paper filters (4-8%), steel and aluminum (15-25%), strippable paint (25-35%), lead (30-40%)
EPA Comments	The drum contains a lead brick and other lead shielding, all radiologically contaminated, based on process knowledge and CT examination of the drum. There is no CPC Code. Section 3.4.5 should be provided with selection option of : "NONE"
Management Comments	This W.S. was packaged to Idaho WIPP 1987 criteria. ETEC has no longer the capability (hot cell of glove box) to package TRU contaminated materials.
Acceptance Comments	To be shipped to Hanford for certification.
Final Form Comments	This W.S. and others were originally packaged and certified in 1988 to WIPP WAC Rev 2 under INEL overview. This waste stream was shipped to Hanford in December 2002.

TWBIR ID: IN-AE-AGHC-01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	RH-TRU Wastes			**Inventory Date**	9/30/2002
Local ID	ID-AEO-104, -107	**Waste Type**	MTRU	**Generator Site**	AE	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
D008

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	85.69	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	3.07	0.00	0.00
Other Inorganic Materials	5.00	0.00	0.00
Cellulosics	3.07	0.00	0.00
Rubber	0.77	0.00	0.00
Plastics	1.92	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	498.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

ID 325A - ID325D
ID 322A - ID322D

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	0.00E+00
Cf-252	0.00E+00
Cs-137	1.25E+00
Pu-238	0.00E+00
Pu-239	1.03E-01
Pu-240	4.15E-02
Pu-241	1.68E-01
Pu-242	0.00E+00
U-235	7.07E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-AE-AGHC-01

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 30 gallon	70.8	0.0	0.0	0.0	0.0	70.8

As-Generated	Stored	70.8	Projected	0.0	Total	70.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	184.2	0.0	0.0	0.0	0.0	184.2

Final Form	Stored	184.2	Projected	0.0	Total	184.2

TWBIR ID: IN-AE-AGHC-01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream, generated at Argonne National Laboratory-East, contains alpha gamma hot cell waste. Noncombustible and combustible waste are segregated. Combustible wastes include paper, plastic and PVC containers, rubber O-rings and gloves, rags, and Q-tips. Noncombustible wastes include lab equipment, tools, fixtures, glassware, pipe, tubing, fitting, fasteners, firebrick, ferrous and nonferrous metal scraps and parts, and small electric motors. Sodium in the waste is reacted with ethyl alcohol, mixed with pelletized clay, and dried. Nitrates and oxidizing agents are neutralized or reduced, mixed with pelletized clay, and dried to ferrous or ferric salts. The average organic content is 80 kg/m3. The combustible content of some containers exceeds 25 volume percent, including packaging. Fines are within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. Surface contamination and nuclear criticality meet WIPP-WAC limits. Thermal power does not exceed 10 watts per package. Surface dose rates average 5.3 R/hr and are limited to 30 R/hr. The waste is packaged in 30 gallon drums.
Waste Stream Source Description	N/A
Current Container Comments	This waste is packaged in 30-gallon drums
EPA Comments	N/A
Management Comments	This WS incorporates old WTWBIR WS Ids: IN-W259.921, IN-W349.667, IN-W349.924
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-AW-161

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	Analytical Chemistry Lab Glassware			**Inventory Date**	9/30/2002
Local ID	ID-INL-161	**Waste Type**	TRU	**Generator Site**	AW	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1584.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	515.00	0.00	0.00
Cellulosics	240.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	191.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	109.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Cs-137	8.41E-01
Pu-239	2.77E+00
Pu-240	5.91E-02
U-235	1.62E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-AW-161

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 30 gallon	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated	Stored	Projected	Total
	0.9	0.0	0.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister used to overpack	0.9	0.0	0.0	0.0	0.0	0.9

Final Form	Stored	Projected	Total
	0.9	0.0	0.9

TWBIR ID: IN-AW-161

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream was generated at Argonne National Laboratory-West at the INEL. These wastes consist of glassware, paper, poly, and miscellaneous hardware generated during analytical chemistry laboratory operations.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	This is a new waste stream and was not included in the previous Transuranic Waste Baseline Inventory Report submittal.
Acceptance Comments	NA
Final Form Comments	N/A

TWBIR ID: IN-BN-510

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	SUPERCOMPACTED DEBRIS WASTE			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	IN	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5490

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D018, D022, D028, D029, F001, F002, F003, F004, F005, F006, F007, F009

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	261.10	0.00	0.00
Aluminum-Base Metal/Alloys	20.67	0.00	0.00
Other Metal/Alloys	154.43	0.00	0.00
Other Inorganic Materials	65.22	0.00	0.00
Cellulosics	302.67	0.00	0.00
Rubber	79.91	0.00	0.00
Plastics	204.54	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	119.68		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

ID121CD

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.82E-01
Am-243	3.22E-07
Np-237	9.66E-06
Pu-236	7.40E-08
Pu-238	2.81E+00
Pu-239	2.00E+00
Pu-240	1.70E-01
Pu-241	7.38E-03
Pu-242	5.66E-04
Th-232	3.30E-04
U-233	4.44E-02
U-235	3.95E-06
U-238	1.14E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-BN-510

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Bin	1802.5	0.0	0.0	0.0	0.0	1802.5
Box / Misc.	32644.7	0.0	0.0	0.0	0.0	32644.7
Drum / 55 gallon	12016.2	0.0	0.0	0.0	0.0	12016.2

As-Generated	Stored	46463.3	Projected	0.0	Total	46463.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
100 gallon drum	19874.8	0.0	0.0	0.0	0.0	19874.8

Final Form	Stored	19874.8	Projected	0.0	Total	19874.8

TWBIR ID: IN-BN-510

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	SUPERCOMPACTED DEBRIS WASTE
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	All of the debris waste described in the submitted BIR data is planned for treatment via supercompaction. As a result of the AMWTP treatment (and per-treatment) processes, the waste disposed of at the WIPP is planned for disposal as a single, newly-generated waste stream.
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-GEM-01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Glovebox Excavator Method Project Soils and Sludge			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	IN	**Final Waste Form**	Soils	**Waste Matrix Code**	S4000

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D018, F001, F002, F003, F004, F005, F006, F007, F009

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.50	0.00	3.00
Other Inorganic Materials	59.40	0.00	415.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	97.88	0.00	503.90
Cement (Solidified)	116.58	0.00	479.30
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	224.00	0.00	1072.00
Soils	947.70	0.00	1579.00
Packaging Material, Steel	168.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	Unknown
Source:	INEEL Pit 9

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.50E-01
Pu-238	4.88E-03
Pu-239	2.18E-01
Pu-240	5.00E-02
Pu-241	2.70E-01
Pu-242	2.57E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-GEM-01

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.0	96.9	0.0	0.0	0.0	97.1

As-Generated	Stored	0.0	Projected	97.1	Total	97.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	97.1

Final Form	Stored	0.0	Projected	97.1	Total	97.1

TWBIR ID: IN-GEM-01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Waste consists of soils (approximately 60%) and associated sludge type wastes to be generated through environmental restoration activities at the Idaho National Engineering Laboratory's Subsurface Disposal Area (Pit 9). The sludge waste originated at the Rocky Flats Plant from various treatment processes in building 774. Sludge wastes included in the waste stream correspond to the following ID numbers: IN-W216, First Stage Sludge; IN-W228, Second Stage Sludge; IN-W309, Organic Setups Oil Solids; IN-W157, Special Setups (Cement); IN-W315, Evaporator Salts; IN-W276, Graphite. Graphite waste generated at the Rocky Flats Plant for casting plutonium metal is also included in the overall waste stream. The originally disposed sludges, graphite and surrounding soils are packaged in a single waste stream through environmental restoration retrieval and repackaging activities.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-GEM-02

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Glovebox Excavator Method Project Heterogeneous Debris.			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	IN	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D018, F001, F002, F003, F004, F005, F006, F007, F009

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	17.30	0.00	51.90
Aluminum-Base Metal/Alloys	1.13	0.00	29.00
Other Metal/Alloys	58.00	0.00	475.50
Other Inorganic Materials	13.56	0.00	173.70
Cellulosics	41.00	0.00	723.90
Rubber	17.43	0.00	292.40
Plastics	63.27	0.00	785.90
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	168.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	Unknown
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.50E-01
Pu-238	4.88E-03
Pu-239	2.18E-01
Pu-240	5.00E-02
Pu-241	2.70E-01
Pu-242	2.57E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-GEM-02

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.0	22.9	0.0	0.0	0.0	23.1

As-Generated	Stored	0.0	Projected	23.1	Total	23.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	23.1

Final Form	Stored	0.0	Projected	23.1	Total	23.1

TWBIR ID: IN-GEM-02

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Waste consists of combustible and noncombustible heterogeneous debris generated through environmental restoration activities at the INEEL Subsurface disposal area (Pit 9). The debris includes drum remnants of sludge waste packaging material that originated at the Rocky Flats Plant from various treatment processes in building 774. Original packaging material (if still present) are segregated during retrieval operations and combined with noncombustible and combustible debris streams that originated at the Rocky Flats Plant. The original noncombustible and combustible debris streams are similar to the following ID numbers: IN-W169, dry Paper and Rags; IN-W278, Low Specific Activity Metal, Glass Etc.; and IN-W296, Non special Source Metal. The materials are combined in a single waste stream through environmental restoration retrieval repackaging activities.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-INTEC-SFS-01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	Solidified Fuel Sludge			**Inventory Date**	9/30/2002
Local ID	ID-CPP-151	**Waste Type**	MTRU	**Generator Site**	IN	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
D008

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	111.95	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	160.11	0.00	0.00
Other Inorganic Materials	30.74	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	13.58	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	498.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	0.00E+00
Cf-252	0.00E+00
Cs-137	6.76E+00
Pu-238	2.37E+00
Pu-239	2.72E-01
Pu-240	3.15E-01
Pu-241	6.89E+01
Pu-242	1.13E-03
U-235	9.66E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-INTEC-SFS-01

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 30 gallon	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.9	0.0	0.0	0.0	0.0	0.9

Final Form	Stored	Projected	Total
	0.9	0.0	0.9

TWBIR ID: IN-INTEC-SFS-01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream was generated at the Idaho Chemical Processing Plant at the INEEL, and may include both combustibles and noncombustibles. The waste includes a solidified sludge of acid-dissolved fuel, absorbed into diatomaceous earth. Other materials in the wastes include glass containers, plastics, metal scraps, lead shielding, and lab equipment. The waste is contained in two 30-gallon drums. At least one of the drums may be lead-lined. The sludge is contained in glass bottles and sealed inside metal cans. Other materials may include glass containers, plastics, metal, scraps, lead shielding, and miscellaneous laboratory equipment. The surface dose rate is limited to 30 R/hr.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	This waste stream was previously reported under IN-W257.
Acceptance Comments	NA
Final Form Comments	N/A

TWBIR ID: IN-NRF-153

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	Combustible Lab Waste			**Inventory Date**	9/30/2002
Local ID	ID-NRF-153	**Waste Type**	TRU	**Generator Site**	IN	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	3.59	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	21.52	0.00	0.00
Other Inorganic Materials	1.08	0.00	0.00
Cellulosics	2.15	0.00	0.00
Rubber	1.43	0.00	0.00
Plastics	1.79	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	498.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	0.00E+00
Cf-252	0.00E+00
Cs-137	0.00E+00
Pu-238	3.59E-02
Pu-239	4.05E-04
Pu-240	4.38E-04
Pu-241	5.59E-02
Pu-242	1.45E-06
U-235	5.92E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-NRF-153

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 30 gallon	3.2	0.0	0.0	0.0	0.0	3.2

As-Generated	Stored	3.2	Projected	0.0	Total	3.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	8.9	0.0	0.0	0.0	0.0	8.9

Final Form	Stored	8.9	Projected	0.0	Total	8.9

TWBIR ID: IN-NRF-153

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste materials include process equipment from the hot cells, various size containers (50 ml to 8 gal), various plastic and paper products, wooden handles, and various woven fabric materials.
Waste Stream Source Description	N/A
Current Container Comments	NA
EPA Comments	N/A
Management Comments	This is a new waste stream and was not included in the previous Transuranic Waste Baseline Inventory Report submittal.
Acceptance Comments	NA
Final Form Comments	N/A

TWBIR ID: IN-TRA-150

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	Laboratory Waste			**Inventory Date**	9/30/2002
Local ID	ID-TRA-150	**Waste Type**	MTRU	**Generator Site**	IN	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
D008

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	343.00	0.00	0.00
Other Inorganic Materials	22.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	41.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	109.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

NA

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.09E+01
Pu-238	1.26E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-TRA-150

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	2.3	0.0	0.0	0.0	0.0	2.3

As-Generated	Stored	2.3	Projected	0.0	Total	2.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister used to overpack	2.7	0.0	0.0	0.0	0.0	2.7

Final Form	Stored	2.7	Projected	0.0	Total	2.7

TWBIR ID: IN-TRA-150

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Unknown
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	NA
Management Comments	This is a new waste stream and was not included in the previous Transuranic Waste Baseline Inventory Report submittal.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-TRA-157

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	Miscellaneous Sources			**Inventory Date**	9/30/2002
Local ID	ID-TRA-157	**Waste Type**	TRU	**Generator Site**	IN	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S3100

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	236.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	338.00	0.00	0.00
Other Inorganic Materials	65.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	29.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	109.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Source Information Not Compiled

TRUCON Codes

NA

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.27E-02
Cs-137	8.20E-02
Pu-238	4.64E-02
Pu-239	1.22E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-TRA-157

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	3.1	0.0	0.0	0.0	0.0	3.1

As-Generated	Stored	Projected	Total
	3.1	0.0	3.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister used to overpack	3.6	0.0	0.0	0.0	0.0	3.6

Final Form	Stored	Projected	Total
	3.6	0.0	3.6

TWBIR ID: IN-TRA-157

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Naval Reactor Facility combustible lab waste
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	NA
Management Comments	This is a new waste stream and was not included in the previous Transuranic Waste Baseline Inventory Report submittal.
Acceptance Comments	NA
Final Form Comments	N/A

TWBIR ID: IN-W157.144

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W157	**Handling**	CH	**Stream Name**	SPECIAL SETUPS (CEMENT):Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-004T	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3150

EPA Codes

As-Generated
APP8, APP8, APP8, APP8, APP8, APP8, APP8, D002, D006, D008, F001, F001, F001, F001, F001, F002, F003, F003, F003

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	17.17	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	222.67	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	334.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.85		
Packaging Material, Plastic	22.41		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

213

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.79E-02
Pu-238	1.44E-02
Pu-239	4.07E-01
Pu-240	9.23E-02
Pu-241	2.46E+00
Pu-242	6.66E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W157.144

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / Misc.	3.2	0.0	0.0	0.0	0.0	3.2
Drum	327.6	0.0	0.0	0.0	0.0	327.6

As-Generated	Stored	Projected	Total
	330.8	0.0	330.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	122.8	0.0	0.0	0.0	0.0	122.8
TDOP	622.7	0.0	0.0	0.0	0.0	622.7

Final Form	Stored	Projected	Total
	745.6	0.0	745.6

TWBIR ID: IN-W157.144

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste, generated at Rocky Flats Plant, consists of liquids absorbed on a cement mixture. The liquid wastes are not compatible with aqueous treatment processes and are handled separately due to their plutonium complexing nature. The majority of complexing chemical wastes are generated by various operations at Building 771, Plutonium Recovery operations. All waste are processed by aqueous waste treatment, building 774. The complexing chemicals include some alcohols, organic acids, and versenes (trademark for a series of chelating agents based on EDTA). All liquids are analyzed or assayed prior to release to Building 774 for treatment. Only below-discard contaminated wastes are released for processing. Above discard contaminated wastes are processed by plutonium recovery operations. The cement mixture used for absorbing complexing liquid wastes is composed of approximately 190 lb of Portland cement and 50 lb of pipe insulation cement, such as magnesia cement. The cements are placed in a prepared 55-gallon drum; the drum is them placed on a drum roller and rolled to ensure mixing of the cements. All liquid wastes are made basic prior to adding them to the cement mixture. Approximately 100 liters of liquid waste is then poured on the cement mixture and allowed to solidify. Aproximately 10 to 15 lb of portland cement is then added on top of the cemented liquid waste before the o-ring bag is removed from the glovebox. Since 1972, drums have been inspected for free liquids, proper packaging, and the use of proper content code. One to two quarts of oil-dri was placed on top of the outer, sealed polyethylene drum bag after inspection. In 1982, vermiculite replaced oil-dri to fill the remaining space between the outer, sealed polyethylene drum bag and the top of the rigid liner. Some drums may be filled with the empty polyethylene bottles used to transport the liquid waste to Building 774. A small amount of portland cement is added to each bottle before placement in a drum.
Waste Stream Source Description	This waste stream was generated at Building 771: Plutonium recovery.. The generating process is: Aqueous waste treatment.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W159.1072

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W159	**Handling**	CH	**Stream Name**	EVAPORATOR AND DISSOLVER SLUDGE:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-MDO-811T	**Waste Type**	MTRU	**Generator Site**	MD	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3125

EPA Codes

As-Generated
APP8, APP8, D001, D009, D009

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	0.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Pollution Control or Waste Treatment Process

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	0.00E+00
Pu-239	0.00E+00
Pu-240	0.00E+00
Pu-241	0.00E+00
Pu-242	0.00E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W159.1072

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	0.8	0.0	0.0	0.0	0.0	0.8

As-Generated	Stored	Projected	Total
	0.8	0.0	0.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	0.0	0.0	0.0	0.0	0.0	0.0
TDOP	0.0	0.0	0.0	0.0	0.0	0.0

Final Form	Stored	Projected	Total
	0.0	0.0	0.0

TWBIR ID: IN-W159.1072

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream, generated at Mound Laboratory, consists of dry evaporator and dissolver sludge and insoluble residue. The consistency ranges from powder to sand-like particles. Limited amounts of other noncombustible wastes including Content Codes 803, 805, 810, 813, 814, 826, and 832 may be included. A few containers may have limited amounts of beryllium-contaminated wastes including glass, paper, gloves, and sample precipitates. There is a potential for and lack of information on fines. In addition the drums may contain free liquids. The expected organic content in the drums is less than 14lb/ft3. No explosive, pyrophoric, or corrosive materials should be in the waste. After removal from the bottom of dissolver pots, the dried sludge is rinsed with nitric acid and dried on a hotplate. Dried sludges are packaged in 1/2-gallon metal cans and sealed in a PE bag, or else packed in 1/2-gallon plastic-coated cardboard cartons and sealed in a PE bag. Each container is assayed and placed in PVC or PE sleeve bags. Sleeve bags can hold up to 5 containers per bag. Up to 8 sleeve bags are placed in each prepared 55-gallon drum. Drums are prepared according to post-1972 procedures, with plywood spacers as needed between on top of the rigid drum liner lid.
Waste Stream Source Description	This waste stream was generated at Plutonium Processing Building: Plutonium Processing and Recovery.. The generating process is: Evaporator and dissolver sludge.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done. D009 will not be applicable to this waste stream after cartons of liquid mercury are removed.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W163.1007

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W163	**Handling**	CH	**Stream Name**	OIL-DRI RESIDUE FROM INCINERATOR:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-375T	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3113

EPA Codes

As-Generated
F001, F001, F001, F002

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	205.58	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	208.08	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.85		
Packaging Material, Plastic	22.41		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Source Unknown

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	2.89E-01
Pu-239	8.20E+00
Pu-240	1.86E+00
Pu-241	4.93E+01
Pu-242	1.33E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W163.1007

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	4.0	0.0	0.0	0.0	0.0	4.0

As-Generated	Stored	Projected	Total
	4.0	0.0	4.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	1.9	0.0	0.0	0.0	0.0	1.9
TDOP	9.6	0.0	0.0	0.0	0.0	9.6

Final Form	Stored	Projected	Total
	11.5	0.0	11.5

TWBIR ID: IN-W163.1007

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream, generated at Rocky Flats Plant, includes Oil-Dri absorbent and waste from laundry and utility operations. Organic content should be less than 14 lb/ft3. No sludges or free liquids should be present. The Oil-Dri should meet WIPP immobilization standards. No explosive or pyrophoric materials should be in this waste. The material is contained in 55-gallon drums. Inside the drums, the waste may be contained in PE bottles and/or metal paint cans and double-bagged in PE and PVC bags. Some waste may also be contained in PE residue process containers (RPCS). Drums were prepared and inspected according to pre and post-1972 procedures. Starting in 1982, vermiculite instead of Oil-Dri was used in the tops of the drums. The waste matrix composition listed is for the incinerator waste. No information is available concerning the laundry and utility operation waste.
Waste Stream Source Description	This waste stream was generated at Bldgs 771 and 776: Incineration. The generating process is: Separation of Oil-Dri from incinerable waste.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W164.153

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W164	**Handling**	CH	**Stream Name**	ORGANIC AND SLUDGE IMMOBILIZATION SYSTEM:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-700T	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3114

EPA Codes

As-Generated
D022, F001, F001, F001, F003

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	342.23	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	107.83	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.43		
Packaging Material, Plastic	23.67		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	6.60E-03
Pu-239	1.87E-01
Pu-240	4.24E-02
Pu-241	1.13E+00
Pu-242	3.05E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W164.153

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated	Stored	Projected	Total
	1.9	0.0	1.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	0.0	0.0	0.0	0.0	0.0	0.0
TDOP	4.8	0.0	0.0	0.0	0.0	4.8

Final Form	Stored	Projected	Total
	4.8	0.0	4.8

TWBIR ID: IN-W164.153

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Organic and sludge immobilization system (OASIS) waste consists of cutting oil and organic solvents solidified with Envirostone emulsifier, gypsum concrete, and an accelerator. Except for the solidifying agent, the waste is similar to Item Description Code (IDC) 003 waste, and has been assigned the same Waste matrix composition.
Waste Stream Source Description	This waste stream was generated at Building 774: Plutonium Manufacturing.. The generating process is: Solidification of solvents and oils.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W167.149

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W167	**Handling**	CH	**Stream Name**	SOLIDIFIED ORGANICS:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-112T	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3114

EPA Codes

As-Generated
D022, F001, F001, F001, F003

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	347.48	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	109.49	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	151.01	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.85		
Packaging Material, Plastic	22.42		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

112

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.86E-02
Pu-238	1.34E-02
Pu-239	3.78E-01
Pu-240	8.60E-02
Pu-241	2.28E+00
Pu-242	6.17E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W167.149

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	169.1	0.0	0.0	0.0	0.0	169.1

As-Generated	Stored	169.1	Projected	0.0	Total	169.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	62.4	0.0	0.0	0.0	0.0	62.4
TDOP	320.9	0.0	0.0	0.0	0.0	320.9

Final Form	Stored	383.3	Projected	0.0	Total	383.3

TWBIR ID: IN-W167.149

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	TRU solid organic waste consists of cemented or absorbed organic liquids from production or laboratory processes. The content code packaged as112 includes IDC 003.
Waste Stream Source Description	This waste stream was generated at Building 774: Plutonium Manufacturing. The generating process is unknown.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W174.154

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W174	**Handling**	CH	**Stream Name**	HIGH-LEVEL ACID:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-MDO-834T	**Waste Type**	MTRU	**Generator Site**	MD	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3113

EPA Codes

As-Generated
D001, D002

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	251.15	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	254.21	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.86		
Packaging Material, Plastic	22.39		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	6.73E+00
Pu-239	4.52E-03
Pu-240	8.95E-03
Pu-241	0.00E+00
Pu-242	0.00E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W174.154

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	190.9	0.0	0.0	0.0	0.0	190.9

As-Generated	Stored	190.9	Projected	0.0	Total	190.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	71.8	0.0	0.0	0.0	0.0	71.8
TDOP	359.3	0.0	0.0	0.0	0.0	359.3

Final Form	Stored	431.1	Projected	0.0	Total	431.1

TWBIR ID: IN-W174.154

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste comes from Mound Laboratory. It consists of acid liquids, mainly nitric, absorbed onto a clay called Florco. The Florco is then placed in a drum bag in a drum lined with a 90-mil poly liner. Analytical assay values are available for each drum.
Waste Stream Source Description	This waste stream was generated at Plutonium Processing Building: Processing and Recovery.. The generating process is: Solidification of acid waste.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W177.156

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W177	**Handling**	CH	**Stream Name**	HIGH-LEVEL CAUSTIC:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-MDO-835T	**Waste Type**	MTRU	**Generator Site**	MD	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3113

EPA Codes

As-Generated
D002

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	250.62	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	253.67	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.85		
Packaging Material, Plastic	22.41		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Pollution Control or Waste Treatment Process

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-236	1.02E-06
Pu-238	7.69E+00
Pu-239	2.28E-03
Pu-240	1.40E-05
Pu-241	9.37E-04
Pu-242	8.00E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W177.156

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	355.1	0.0	0.0	0.0	0.0	355.1

As-Generated	Stored	355.1	Projected	0.0	Total	355.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	132.3	0.0	0.0	0.0	0.0	132.3
TDOP	670.6	0.0	0.0	0.0	0.0	670.6

Final Form	Stored	802.9	Projected	0.0	Total	802.9

TWBIR ID: IN-W177.156

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste comes from Mound Laboratory. It consists of caustic waste and neutralized waste liquids, absorbed onto a clay called Florco. The Florco is then placed in a drum bag in a drum lined with a 90-mil poly liner. Analytical assay values are available for each drum.
Waste Stream Source Description	This waste stream was generated at Plutonium Processing Building: Processing and Recovery.. The generating process is: Corrosive scrubber waste.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W179.158

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W179	**Handling**	CH	**Stream Name**	HIGH-LEVEL SLUDGE/CEMENT:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-MDO-836T	**Waste Type**	MTRU	**Generator Site**	MD	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3121

EPA Codes

As-Generated
APP8, D002, D006, D007, D008, D009, D010, D011, F001, F001, F001, F003, F003

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	251.63	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	254.70	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.85		
Packaging Material, Plastic	22.41		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-236	3.24E-06
Pu-238	3.08E+00
Pu-239	5.33E-05
Pu-240	2.77E-05
Pu-241	2.53E-03
Pu-242	2.42E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W179.158

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	886.1	0.0	0.0	0.0	0.0	886.1

As-Generated	Stored	886.1	Projected	0.0	Total	886.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	328.9	0.0	0.0	0.0	0.0	328.9
TDOP	1666.9	0.0	0.0	0.0	0.0	1666.9

Final Form	Stored	1995.8	Projected	0.0	Total	1995.8

TWBIR ID: IN-W179.158

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste is from Mound Labs. The waste consists of shower water, decontamination water, cooling water, and some acids and caustics which have been solidified in portland cement. The cement is poured into a drum lined with a 90-mil poly liner. Analytical assay values are available on a batch basis.
Waste Stream Source Description	This waste stream was generated at Plutonium Processing, Research, Laundry and Waste Disposal Buildings: Various. The generating process is: Shower water / decon water / cooling water.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W181.162

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W181	**Handling**	CH	**Stream Name**	LAUNDRY SLUDGE			**Inventory Date**	9/30/2002
Local ID	ID-RFO-978T	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3120

EPA Codes

As-Generated
APP8, D002, D006, D007, D008, D009, F001, F001, F001, F001, F001, F002, F003, F003, F003

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	2.96	0.00	0.00
Other Inorganic Materials	30.25	0.00	0.00
Cellulosics	30.25	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	8.18	0.00	0.00
Solidified, Inorganic Matrix	402.68	0.00	0.00
Cement (Solidified)	268.45	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.85		
Packaging Material, Plastic	29.47		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

211

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	5.22E-03
Pu-239	1.47E-01
Pu-240	3.35E-02
Pu-241	8.91E-01
Pu-242	2.41E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W181.162

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / Misc.	34.9	0.0	0.0	0.0	0.0	34.9

As-Generated	Stored	34.9	Projected	0.0	Total	34.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	13.2	0.0	0.0	0.0	0.0	13.2
TDOP	67.1	0.0	0.0	0.0	0.0	67.1

Final Form	Stored	80.3	Projected	0.0	Total	80.3

TWBIR ID: IN-W181.162

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste is from Rocky Flats. The waste consists of sludge from laundry operations that have been cemented in portland. The cement is described as a poor grade.
Waste Stream Source Description	This waste stream was generated at Building 776: Laundry. The generating process is: Laundry sludge.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W188.160

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W188	**Handling**	CH	**Stream Name**	BLDG 776 PROCESS SLUDGE:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-976T	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3120

EPA Codes

As-Generated
APP8, APP8, APP8, D002, D006, D007, D008, D009, D022, D028, F001, F001, F001, F001, F001, F003, F003, F003

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	1.46	0.00	0.00
Other Inorganic Materials	15.79	0.00	0.00
Cellulosics	6.62	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	4.10	0.00	0.00
Solidified, Inorganic Matrix	289.87	0.00	0.00
Cement (Solidified)	193.25	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.85		
Packaging Material, Plastic	22.41		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

211

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	1.89E-02
Pu-239	5.35E-01
Pu-240	1.21E-01
Pu-241	3.23E+00
Pu-242	8.75E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W188.160

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / Misc.	63.4	0.0	0.0	0.0	0.0	63.4
Drum / 55 gallon	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated	Stored	Projected	Total
	64.9	0.0	64.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	24.6	0.0	0.0	0.0	0.0	24.6
TDOP	124.5	0.0	0.0	0.0	0.0	124.5

Final Form	Stored	Projected	Total
	149.1	0.0	149.1

TWBIR ID: IN-W188.160

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste is from Rocky Flats and consists of sludge from floor drains in a Pu process facility that have been cemented in portland. The cement is described as a poor grade. Also may be laundry sludges, material contents given are for an organic laundry sludge.
Waste Stream Source Description	This waste stream was generated at Building 776: Plutonium Processing.. The generating process is: Floor drains.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W216.98

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W216	**Handling**	CH	**Stream Name**	FIRST STAGE SLUDGE:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-001T	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3121

EPA Codes

As-Generated
APP8, APP8, APP8, APP8, APP8, APP8, APP8, APP8, APP8, D002, D005, D006, D007, D008, D009, D011, D022, D028, F001, F001, F001, F001, F001, F002, F003, F003, F003

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	2.14	0.00	0.00
Other Inorganic Materials	2.22	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	6.00	0.00	0.00
Solidified, Inorganic Matrix	295.29	0.00	0.00
Cement (Solidified)	196.86	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.85		
Packaging Material, Plastic	22.41		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Pollution Control or Waste Treatment Process

TRUCON Codes

211

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.15E+01
Pu-238	1.80E-02
Pu-239	5.10E-01
Pu-240	1.16E-01
Pu-241	3.09E+00
Pu-242	8.34E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W216.98

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / Misc.	22.2	0.0	0.0	0.0	0.0	22.2
Drum	2567.6	0.0	0.0	0.0	0.0	2567.6

As-Generated	Stored	Projected	Total
	2589.7	0.0	2589.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	2099.8	0.0	0.0	0.0	0.0	2099.8
TDOP	10643.4	0.0	0.0	0.0	0.0	10643.4

Final Form	Stored	Projected	Total
	12743.2	0.0	12743.2

TWBIR ID: IN-W216.98

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Waste consists of a wet sludge produced from treating aqueous process wastes, such as ion exchange column effluent, distillates, and caustic scrub solutions generated by Plutonium Recovery Operations (Building 771). Portland cement is added to the waste package for absorption of free liquids. Waste drums may periodically contain surgeons' gloves, glovebox gloves, etc. Since the fall of 1979, first-stage sluge (IDC 001) and Second stage sludge (IDC 002) have been combined into Content Code 1 - Combined sludge. Sludge is produced by treating aqueous wastes by the carrier precipitation process. Aqueous wastes are made basic, if necessary, with sodium hydroxide. Radioactive elements such as plutonium and americium are chemically precipitated from the liquid waste. Treatment chemicals include ferric sulfate, calcium chloride, magnesium sulfate, and flocculating agents. The treatment process produces a precipitate of the hydrated oxides of iron, magnesium, aluminum, silicon, etc., which also carries the hydrated oxides of plutonium and americium. The precipitate or slurry is filtered to produce a sludge containing 50 to 70 weight percent water. Liquid wastes were analyzed for fissile content prior to release from Building 771 and 774, and were retained at Building 771 for further treatment if contaminated with above-discard amounts of plutonium.
Waste Stream Source Description	This waste stream was generated at Building 774: Aqueous Waste Treatment.. The generating process is: Aqueous process waste treatment.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W218.909

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W218	**Handling**	CH	**Stream Name**	BLDG 374 DRY SLUDGE:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-007T	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3121

EPA Codes

As-Generated
APP8, APP8, APP8, APP8, APP8, APP8, APP8, APP8, APP8, APP8, D002, D006, D007, D008, D009, D022, D028, F001, F001, F001, F001, F001, F002, F003, F003, F003, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	2.14	0.00	0.00
Other Inorganic Materials	2.22	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	6.00	0.00	0.00
Solidified, Inorganic Matrix	295.47	0.00	0.00
Cement (Solidified)	196.98	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.85		
Packaging Material, Plastic	22.40		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

111,211

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.44E-01
Pu-238	2.45E-03
Pu-239	6.92E-02
Pu-240	1.57E-02
Pu-241	4.19E-01
Pu-242	1.13E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W218.909

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	923.5	0.0	0.0	0.0	0.0	923.5

As-Generated	Stored	923.5	Projected	0.0	Total	923.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	344.0	0.0	0.0	0.0	0.0	344.0
TDOP	1738.8	0.0	0.0	0.0	0.0	1738.8

Final Form	Stored	2082.8	Projected	0.0	Total	2082.8

TWBIR ID: IN-W218.909

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Building 374 solidified sludge consists of immobilized low-level mixed waste materials from decontamination-precipitation and neutralization processes in the Building 374 Liquid Waste Treatment Facility. The wastewater treatment operation includes neutralization, radioactive decontamination (precipitation), filtration, evaporation, spray drying, salt immobilization, and filtrate sludge immobilization. The sludge from the rotary drum vacuum filter has a dry appearance but is still very moist. The dried sludge was transferred from the dryer directly into a 55-gallon drum. The resulting waste consisted of dispersible fines and was assigned IDC 007.
Waste Stream Source Description	This waste stream was generated at Bldg 374: Uranium and Plutonium Processing.. The generating process is: Aqueous waste filtration and solidification.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W219.110

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W219	**Handling**	CH	**Stream Name**	SOLIDIFIED GRINDING SLUDGE, ETC.:Uncertifiable			**Inventory Date**	4/30/1995
Local ID	ID-BTO-030T	**Waste Type**	MTRU	**Generator Site**	BT	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S3120

EPA Codes

As-Generated
F001, F002

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	2500.00	2500.00	2500.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	465.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	4.34E-02
Pu-239	1.23E+00
Pu-240	2.79E-01
Pu-241	7.43E+00
Pu-242	2.01E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W219.110

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	7.6	0.0	0.0	0.0	0.0	7.6

As-Generated	Stored	Projected	Total
	7.6	0.0	7.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	4.0	0.0	0.0	0.0	0.0	4.0

Final Form	Stored	Projected	Total
	4.0	0.0	4.0

TWBIR ID: IN-W219.110

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste steam, generated at Bettis Atomic Power Laboratory, consists of solidified grinding sludge and associated filters, rags, etc. The sludge can contain abraded grinding wheel material, which includes diamond dust, aluminum oxide, carborundum, and rubber. The waste is in either powder or cakes and contains not more than 10% of other waste items. There are high levels of fines. In addition the drums may contain free liquids. The estimated organic content is less than 1 lb/ft3. No particle size data are provided, but it is assumed that WIPP-WAC limits for fines would be exceeded. No free liquids should be present. No explosive, pyrophoric, or corrosive material should be in the waste. Both 17c and 6m 55-gallon drums were used for packaging the waste. Fissile content was determined by calculating the weight difference by chemical analysis or by an assay gauge.
Waste Stream Source Description	This waste stream was generated at L Building: Fuel Manufacturing.. The generating process is: Grinding operations.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TWBIR ID: IN-W219.914

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W219	**Handling**	CH	**Stream Name**	SOLIDIFIED GRINDING SLUDGE, ETC.:RH Direct Ship			**Inventory Date**	N/A
Local ID	ID-BTO-030T	**Waste Type**	MTRU	**Generator Site**	BT	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3120

EPA Codes

As-Generated
F001, F002

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	1.11	0.00	0.00
Other Inorganic Materials	11.97	0.00	0.00
Cellulosics	5.02	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	3.11	0.00	0.00
Solidified, Inorganic Matrix	219.88	0.00	0.00
Cement (Solidified)	146.59	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	211.00		
Packaging Material, Plastic	16.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	1.43E-02
Pu-239	4.06E-01
Pu-240	9.22E-02
Pu-241	2.45E+00
Pu-242	6.63E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W219.914

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated	Stored	1.9	Projected	0.0	Total	1.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB used to overpack 55 gall	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	1.9	Projected	0.0	Total	1.9

TWBIR ID: IN-W219.914

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste steam, generated at Bettis Atomic Power Laboratory, consists of solidified grinding sludge and associated filters, rags, etc. The sludge can contain abraded grinding wheel material, which includes diamond dust, aluminum oxide, carborundum, and rubber. The waste is in either powder or cakes and contains not more than 10% of other waste items. There are high levels of fines. In addition the drums may contain free liquids. The estimated organic content is less than 1 lb/ft3. No particle size data are provided, but it is assumed that WIPP-WAC limits for fines would be exceeded. No free liquids should be present. No explosive, pyrophoric, or corrosive material should be in the waste. Both 17c and 6m 55-gallon drums were used for packaging the waste. Fissile content was determined by calculating the weight difference by chemical analysis or by an assay gauge.
Waste Stream Source Description	This waste stream was generated at L Building: Fuel Manufacturing.. The generating process is: Grinding operations.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W220.114

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W220	**Handling**	CH	**Stream Name**	RESEARCH GENERATED WASTE NONCOMPACTIBLE :Direct Ship	**Inventory Date**	9/30/2002
Local ID	ID-OFS-111T	**Waste Type**	MTRU	**Generator Site**	AE, RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3121

EPA Codes

As-Generated
APP8, APP8, APP8, APP8, APP8, APP8, D002, D004, D005, D006, D007, D008, D009, F001, F001, F001, F001, F001, F002, F003, F003, F003, F003, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	2.14	0.00	0.00
Other Inorganic Materials	2.22	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	6.00	0.00	0.00
Solidified, Inorganic Matrix	432.15	0.00	0.00
Cement (Solidified)	59.94	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.85		
Packaging Material, Plastic	22.41		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

111

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.73E+00
Pu-238	9.53E-03
Pu-239	2.90E-01
Pu-240	6.38E-02
Pu-241	1.63E+00
Pu-242	4.41E-06
U-233	1.88E-04
U-235	1.72E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W220.114

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / Misc.	6.3	0.0	0.0	0.0	0.0	6.3
Drum	832.4	0.0	0.0	0.0	0.0	832.4

As-Generated	Stored	Projected	Total
	838.8	0.0	838.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	311.9	0.0	0.0	0.0	0.0	311.9
TDOP	1580.7	0.0	0.0	0.0	0.0	1580.7

Final Form	Stored	Projected	Total
	1892.5	0.0	1892.5

TWBIR ID: IN-W220.114

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste includes waste generated at ANL-East and solid wet sludge from the Rocky Flats Plant. The ANL-E waste is derived from research activities performed in a laboratory environment. The waste includes concrete and laboratory apparatus. The waste is packaged in 55-gallon drums or in SWBs. The solid wet sludge is cemented or dewatered sludge precipitated from aqueous waste treatment processes. Soils that are not contaminated with organic chemicals are also included. Rocky flats waste included in 111 is IDC 007, Building 374 solidified sludge. IDC 007 consists of immobilized low-level mixed waste materials from decontamination-precipitation and neutralization processes in the Building 374 Liquid Waste Treatment Facility. The wastewater treatment operation includes neutralization, radioactive decontamination (precipitation), filtration, evaporation, spray drying, salt immobilization, and filtrate sludge immobilization. The sludge from the rotary drum vacuum filter has a dry appearance but is still very moist. The dried sludge was transferred from the dryer directly into a 55-gallon drum. The sludge was dried, or had portland cement and diatomite added to absorb liquids. Note: Waste matrix composition listed is for Rocky Flats Waste.
Waste Stream Source Description	This waste stream was generated at RFP: Bldgs 374, 774, ANL-E: Bldgs 205, 350: Uranium and Plutonium Processing.. The generating process is: Aqueous waste treatment processes.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W221.927

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W221	**Handling**	CH	**Stream Name**	SOLID LAB WASTE:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-113T	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3113

EPA Codes

As-Generated
APP8, APP8, APP8, APP8, APP8, APP8, D002, F003, F003, F003

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	16.90	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	328.70	0.00	0.00
Cement (Solidified)	131.48	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.80		
Packaging Material, Plastic	22.56		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

113

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	2.67E-02
Pu-239	7.55E-01
Pu-240	1.71E-01
Pu-241	4.58E+00
Pu-242	1.23E-05
U-235	4.75E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W221.927

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	17.1	0.0	0.0	0.0	0.0	17.1

As-Generated	Stored	17.1	Projected	0.0	Total	17.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	5.7	0.0	0.0	0.0	0.0	5.7
TDOP	33.5	0.0	0.0	0.0	0.0	33.5

Final Form	Stored	39.2	Projected	0.0	Total	39.2

TWBIR ID: IN-W221.927

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Solid lab waste consists of cemented or absorbed neutralized aqueous laboratory waste and includes some waste from IDCs 004 and 292. Waste matrix composition listed is for IDC 004 waste, which accounts for most of the waste in this content code.
Waste Stream Source Description	This waste stream was generated at Bldg 774 , Rocky Flats Plant: Laboratory Operations.. The generating process is: Aqueous waste treatment.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W222.116

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W222	**Handling**	CH	**Stream Name**	CEMENTED SLUDGE:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-292T	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3123

EPA Codes

As-Generated
APP8, APP8, APP8, APP8, APP8, APP8, APP8, APP8, APP8, APP8, APP8, APP8, D002, D006, D008, F001, F001, F001, F002, F003, F003, F003

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.09	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	6.96	0.00	0.00
Cellulosics	0.26	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	26.56	0.00	0.00
Solidified, Inorganic Matrix	110.70	0.00	0.00
Cement (Solidified)	73.80	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.86		
Packaging Material, Plastic	22.38		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Pollution Control or Waste Treatment Process

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.99E-03
Pu-238	1.37E-01
Pu-239	3.88E+00
Pu-240	8.79E-01
Pu-241	2.34E+01
Pu-242	6.35E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W222.116

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	115.2	0.0	0.0	0.0	0.0	115.2

As-Generated	Stored	115.2	Projected	0.0	Total	115.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	43.5	0.0	0.0	0.0	0.0	43.5
TDOP	215.6	0.0	0.0	0.0	0.0	215.6

Final Form	Stored	259.0	Projected	0.0	Total	259.0

TWBIR ID: IN-W222.116

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream, generated at Rocky Flats Plant, consists of sludge from the incinerator off-gas system, recovery building filter plenums, pumps, etc. Portland cement is added to absorb free liquids. The sludge may contain a limited number of surgical gloves. Content Code 292 replaced Code 290 in 1974. Before 1977, sludge was sealed in PVC bags, double-contained in plastic and placed in 1-gallon metal paint cans. Portland cement was added to the bottom and top of the can. After 1977, sludge was placed in 1-gallon PE bottles with layers of portland cement. Each can (or bottle) was assayed and placed in groups of about 25 into prepared 55-gallon drums. Drum preparation was in accordance with pre and post 1972 procedures. Starting in 1982, vermiculite replaced Oil-Dri as the material between the top of the waste material and the drum liner lid.
Waste Stream Source Description	This waste stream was generated at Bldg 771, Rocky Flats Plant: Plutonium Recovery Operations.. The generating process is: Filter sludge.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W228.101

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W228	**Handling**	CH	**Stream Name**	SECOND STAGE SLUDGE:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-002T	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3121

EPA Codes

As-Generated
APP8, APP8, APP8, APP8, APP8, APP8, D002, D005, D006, D007, D008, D009, D009, D011, D022, D028, F001, F001, F001, F001, F001, F002, F003, F003, F003

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	14.49	0.00	0.00
Cellulosics	0.10	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	1.99	0.00	0.00
Solidified, Inorganic Matrix	127.17	0.00	0.00
Cement (Solidified)	84.78	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.85		
Packaging Material, Plastic	22.41		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Pollution Control or Waste Treatment Process

TRUCON Codes

211

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.64E-01
Pu-238	1.43E-03
Pu-239	4.06E-02
Pu-240	9.19E-03
Pu-241	2.45E-01
Pu-242	6.62E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W228.101

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	1639.0	0.0	0.0	0.0	0.0	1639.0

As-Generated	Stored	1639.0	Projected	0.0	Total	1639.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	1328.7	0.0	0.0	0.0	0.0	1328.7
TDOP	6734.7	0.0	0.0	0.0	0.0	6734.7

Final Form	Stored	8063.4	Projected	0.0	Total	8063.4

TWBIR ID: IN-W228.101

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Waste consists of a wet sludge produced from treatment of all other plant radioactive and/or chemical contaminated wastes and further treatment of the first-stage effluent. Portland cement was added to the waste package for absorption of free liquids. Second-stage sludge drums packaged prior to 1973 may contain other waste such as electric motors, bottles of chemical (usually liquid) wastes, mercury and lithium batteries, and small amounts of contaminated mercury in pint bottles. Radioactive sources were also periodically included in second-stage drums through 1979. Since the fall of 1979, Second stage sludge (IDC 002) have been combined into Content Code 1 - Combined sludge. Content code 2 is no longer used. Sludge is produced by treating aqueous wastes by the carrier precipitation process. Aqueous wastes are made basic, if necessary, with sodium hydroxide. Radioactive elements such as plutonium and americium are chemically precipitated from the liquid waste. Treatment chemicals include ferric sulfate, calcium chloride, magnesium sulfate, and flocculating agents. The treatment process produces a precipitate of the hydrated oxides of iron, magnesium, aluminum, silicon, etc., which also carries the hydrated oxides of plutonium and americium. The precipitate or slurry is filtered to produce a sludge containing 50 to 70 weight percent water. Liquid wastes were analyzed for fissile content prior to release from Building 771 and 774, and were retained at Building 771 for further treatment if contaminated with above-discard amounts of plutonium.
Waste Stream Source Description	This waste stream was generated at Building 774: Aqueous Waste Treatment.. The generating process is: Aqueous process waste treatment.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W240.931

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W240	**Handling**	CH	**Stream Name**	GLASS WASTE:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-118T	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S3117

EPA Codes

As-Generated
APP8, APP8, APP8, APP8, APP8, D002, D008, D009, F001, F001, F001

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	1.05	0.00	0.00
Cellulosics	191.07	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.70	0.00	0.00
Solidified, Inorganic Matrix	20.70	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.86		
Packaging Material, Plastic	22.39		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

118

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.54E-01
Pu-238	3.72E-02
Pu-239	1.06E+00
Pu-240	2.39E-01
Pu-241	6.34E+00
Pu-242	1.72E-05
U-235	1.66E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W240.931

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / Misc.	164.8	0.0	0.0	0.0	0.0	164.8
Drum	10.6	0.0	0.0	0.0	0.0	10.6

As-Generated	Stored	Projected	Total
	175.4	0.0	175.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	66.2	0.0	0.0	0.0	0.0	66.2
TDOP	330.5	0.0	0.0	0.0	0.0	330.5

Final Form	Stored	Projected	Total
	396.7	0.0	396.7

TWBIR ID: IN-W240.931

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	TRU glass waste consists of discarded labware, windows, containers or raschig rings from various processes. The IDCs packaged and included in 118 are 440, 441, and 442. Waste matrix composition listed is for IDC 440. For IDCs 441 and 442, the "Other Glass" matrix would be mostly raschig rings.
Waste Stream Source Description	This waste stream was generated at Bldgs 371, 374, 559, 707, 771, 774, 776, 777, and 779.: Plutonium Operations.. The generating process is: Various
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W243.808

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W243	**Handling**	CH	**Stream Name**	GLASS:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-440T	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S3117

EPA Codes

As-Generated
APP8, APP8, APP8, APP8, APP8, APP8, APP8, APP8, D002, D008, D008, D029, F001, F001, F001, F002, F003, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.73	0.00	0.00
Other Inorganic Materials	132.63	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.48	0.00	0.00
Plastics	14.37	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.85		
Packaging Material, Plastic	16.06		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Analytical Laboratory Waste

TRUCON Codes

118

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.74E-02
Pu-238	3.34E-02
Pu-239	9.49E-01
Pu-240	2.15E-01
Pu-241	5.72E+00
Pu-242	1.55E-05
U-233	2.74E-07
U-235	1.89E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W243.808

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / Misc.	41.2	0.0	0.0	0.0	0.0	41.2
Drum	302.0	0.0	0.0	0.0	0.0	302.0

As-Generated	Stored	Projected	Total
	343.2	0.0	343.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	126.6	0.0	0.0	0.0	0.0	126.6
TDOP	646.7	0.0	0.0	0.0	0.0	646.7

Final Form	Stored	Projected	Total
	773.3	0.0	773.3

TWBIR ID: IN-W243.808

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream, generated at the Rocky Flats Plant, consists of glass sample vials, bottles, lead-taped sample vials, ion exchange columns, dissolver pots, laboratory glassware such as pyrex flasks and beakers, glovebox windows (glass, plexiglass, leaded glass), and crushed and ground glass. The waste includes limited amounts of other noncombustibles such as metals, and limited amounts of combustible wastes. No sludges should be present although some glass vials may contain limited amounts of free liquids. No explosive, pyrophoric, or corrosive materials should be in the waste. Drums may contain respirable crushed glass fines or free liquids . The glass may be packaged with some variation depending on if it is whole, broken to pieces, or crushed or ground. Whole or broken glass may be packaged in 1-gallon PE bottles, in 13-inch high by 15.5-inch diameter Fibre-Paks (either loose or inside plastic bags inside the Fibre-Pak), or double -packed in plastic bags, with the outside of the outer bag taped for protection against sharp edges. Glassware such as sample vials may be taped together before packaging. Nonline generated glassware, light bulbs, and fluorescent tubes are usually crushed or ground and placed directly into a prepared 55-gallon drum. Drums were packed according to the usual pre-1972 and post-1972 procedures. Specific information on the box preparation was not available. Each drum was assayed. Since 1972, the drums were also processed according to inspection and sealing procedures; and, since 1982, vermiculite instead of Oil-Dri was placed on top of the outer sealed PE drum bag. A small number of the drums are lead-lined. Also, Oil-Dri was added to the glass waste if moisture was present.
Waste Stream Source Description	This waste stream was generated at All plutonium areas.: Plutonium Operations.. The generating process is: Various
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W245.301

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W245	**Handling**	CH	**Stream Name**	UNLEACHED RASHIG RINGS:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-441T	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S3117

EPA Codes

As-Generated
APP8, D001, D002, D008, D008, F001, F001, F001

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	225.37	0.00	0.00
Cellulosics	14.49	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	5.06	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.86		
Packaging Material, Plastic	22.40		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

225

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.42E-03
Pu-238	6.75E-02
Pu-239	1.90E+00
Pu-240	4.32E-01
Pu-241	1.15E+01
Pu-242	3.11E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W245.301

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	333.6	0.0	0.0	0.0	0.0	333.6

As-Generated	Stored	333.6	Projected	0.0	Total	333.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	124.7	0.0	0.0	0.0	0.0	124.7
TDOP	627.5	0.0	0.0	0.0	0.0	627.5

Final Form	Stored	752.2	Projected	0.0	Total	752.2

TWBIR ID: IN-W245.301

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream, generated at the Rocky Flats Plant, consists of boronated glass rings used to minimize neutron multiplication in liquid storage tanks. Unleached Rashig Rings were used from 1971-79 as a separate stream and then combined with content code 442, Leached Rashig Rings. The rings are about 1.75 inch high and 1.5 inch in diameter, with a 0.25-inch wall thickness. The rings are heat and chemical resistant borosilicate glass with 11.8 - 13.8 weight % B2O3, with an isotopic content of 10B/11B of not less than 0.24. Some of the rings, which had above-discard amounts of plutonium, were leached with nitric acid to recover the plutonium and then rinsed with water and dried. Some of the rings may be contaminated with small amounts of oil. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in the waste. Trace amounts of nitric acid or organic contaminants may be present. The rings are triple contained in PE or PVC and placed in a 10-inch high, 15.5-inch diameter Fibre-Pak. Two Fibre-Paks are placed inside a prepared 55-gallon drum according to the standard pre-1972 and post-1972 drum packing procedures. A few of the drums contain broken rashig rings in taped-closed, 4-liter PE bottles with double bags inside the bottles. Each drum was assayed. Since 1972, the drums were also processed according to inspection and sealing procedures; and, since 1982, vermiculite instead of Oil-Dri was placed on top of the outer sealed PE drum bag. A small number of the drums are lead-lined. Also, Oil-Dri was added to the glass waste if moisture was present.
Waste Stream Source Description	This waste stream was generated at Plutonium Areas.: Plutonium Operations.. The generating process is: Neutron buffering.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W247.810

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W247	**Handling**	CH	**Stream Name**	LEACHED RASHIG RINGS:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-442T	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S3117

EPA Codes

As-Generated
APP8, APP8, APP8, APP8, D002, D008, D028, D029, F001, F001, F001, F001, F002, F003, F003, F005, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	125.68	0.00	0.00
Cellulosics	15.05	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	6.57	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.85		
Packaging Material, Plastic	22.41		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

118, 218

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.29E-03
Pu-238	3.24E-02
Pu-239	9.18E-01
Pu-240	2.09E-01
Pu-241	5.55E+00
Pu-242	1.50E-05
U-235	1.83E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W247.810

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / Misc.	76.1	0.0	0.0	0.0	0.0	76.1
Drum / 55 gallon	261.9	0.0	0.0	0.0	0.0	261.9

As-Generated	Stored	Projected	Total
	338.0	0.0	338.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	124.7	0.0	0.0	0.0	0.0	124.7
TDOP	637.1	0.0	0.0	0.0	0.0	637.1

Final Form	Stored	Projected	Total
	761.8	0.0	761.8

TWBIR ID: IN-W247.810

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream, generated at the Rocky Flats Plant, consists of boronated glass rings used to minimize neutron multiplication in liquid storage tanks. Content Code 441, Unleached Rashig Rings, were used from 1971-79 as a separate stream, and then combined with Content Code 442, Leached Rashig Rings. The rings are about 1.75 inch high and 1.5 inch in diameter, with a 0.25-inch wall thickness. The rings are heat and chemical resistant borosilicate glass with 11.8 - 13.8 weight % B2O3, with an isotopic content of 10B/11B of not less than 0.24. Some of the rings, which had above-discard amounts of plutonium, were leached with nitric acid to recover the plutonium and then rinsed with water, and dried. Some of the rings may be contaminated with small amounts of oil. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in the waste. Trace amounts of nitric acid or organic contaminants may be present. The rings are triple contained in PE or PVC and placed in a 10-inch high, 15.5-inch diameter Fibre-Pak. Two Fibre-Paks are placed inside a prepared 55-gallon drum according to the standard pre-1972 and post-1972 drum packing procedures. A few of the drums contain broken rashig rings in taped-closed, 4-liter PE bottles with double bags inside the bottles. Each drum was assayed. Since 1972, the drums were also processed according to inspection and sealing procedures; and, since 1982, vermiculite instead of Oil-Dri was placed on top of the outer sealed PE drum bag. A small number of the drums are lead-lined. Also, Oil-Dri was added to the glass waste if moisture was present.
Waste Stream Source Description	This waste stream was generated at Plutonium Areas.: Plutonium Operations.. The generating process is: Neutron buffering.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W249.527

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W249	**Handling**	CH	**Stream Name**	GLASS, FLASKS, SAMPLE VIALS, ETC.:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-MDO-810T	**Waste Type**	MTRU	**Generator Site**	MD	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S3117

EPA Codes

As-Generated
D009, D009

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	1.03	0.00	0.00
Other Inorganic Materials	187.29	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.68	0.00	0.00
Plastics	20.30	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	209.16		
Packaging Material, Plastic	21.50		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Analytical Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	2.59E+02
Pu-239	1.86E+00
Pu-240	0.00E+00
Pu-241	0.00E+00
Pu-242	0.00E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W249.527

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	2.7	0.0	0.0	0.0	0.0	2.7

As-Generated	Stored	Projected	Total
	2.7	0.0	2.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	1.9	0.0	0.0	0.0	0.0	1.9
TDOP	4.8	0.0	0.0	0.0	0.0	4.8

Final Form	Stored	Projected	Total
	6.7	0.0	6.7

TWBIR ID: IN-W249.527

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream, generated at Mound Laboratory, consists mostly of whole and broken glassware and glass sample vials. The majority of the glass is pyrex. Limited amounts of other noncombustibles, material similar to that in Content Codes 803, 805, 811, and 826 may be present. Even though some of the glassware is broken, fines should not exceed WIPP-WAC limits for repirable or dispersed fines. No inorganic sludges, no explosive, pyrophoric, or corrosive materials should be in the waste. Most of the glassware is broken into pieces about 1 inch in diameter to reduce total volume. The material is packaged into 1 or 2-quart metal cans with lids. Each can is assayed for plutonium content and then placed with up to four other cans into a sleeve bag, which is sealed with tape. Up to five sleeve bags are placed inside a drum. Each drum is lined with a 90-mil drum liner, which is lined with a PE drum bag. Plywood spacers are placed between the rigid liner lid and the drum lid.
Waste Stream Source Description	This waste stream was generated at Plutonium Processing Laboratory and PP Bldg.: Laboratory Operations.. The generating process is: Neutron buffering.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done. WAste is expected to be non-mixed when cartons of liquid mercury are removed.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W263.520

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W263	**Handling**	CH	**Stream Name**	CONTAMINATED SOIL			**Inventory Date**	9/30/2002
Local ID	ID-MDO-842T	**Waste Type**	MTRU	**Generator Site**	MD	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S4100

EPA Codes

As-Generated
D002, D006, D007, D008, D009, D010, D011

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.09	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	5.67	0.00	0.00
Cellulosics	16.82	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	542.81	0.00	0.00
Packaging Material, Steel	208.85		
Packaging Material, Plastic	29.52		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-236	5.58E-06
Pu-238	6.46E-01
Pu-239	3.01E-02
Pu-240	4.78E-05
Pu-241	4.37E-03
Pu-242	4.18E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W263.520

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / 4 ft X 4 ft X 8 ft	123.6	0.0	0.0	0.0	0.0	123.6

As-Generated	Stored	Projected	Total
	123.6	0.0	123.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	45.4	0.0	0.0	0.0	0.0	45.4
TDOP	234.7	0.0	0.0	0.0	0.0	234.7

Final Form	Stored	Projected	Total
	280.1	0.0	280.1

TWBIR ID: IN-W263.520

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste, generated at Mound Laboratories, consists of soil, including small rocks and pebbles, generated from cleanup of a leak. All soil waste was dry when packaged. A few waste boxes also include picks, shovels, metal cans, rubber gloves, booties, respirators, plastic, and possibly an air hammer and chisel. Soils waste was packaged in small, plastic lined plywood boxes (42 x 20 x 39 inch) other waste was then placed on top of the soil before the box was sealed. Four of the small boxes were then packaged in a standard larger waste box (4 x 4 x 7 feet) lined with fiberglass-reinforced polyester. Assay was performed using radiochemical analysis on core samples taken from the contaminated area.
Waste Stream Source Description	This waste stream was generated at Plutonium Processing - Waste Disposal Area: Plutonium Processing.. The generating process is: Cleanup of a leak.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W267.1005

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W267	**Handling**	CH	**Stream Name**	GRIT:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-372TN	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S3112

EPA Codes

As-Generated
APP8

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1.64	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	39.88	0.00	0.00
Cellulosics	4.44	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	6.03	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.85		
Packaging Material, Plastic	22.22		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	5.23E-01
Pu-239	1.48E+01
Pu-240	3.36E+00
Pu-241	8.95E+01
Pu-242	2.42E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W267.1005

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	3.7	0.0	0.0	0.0	0.0	3.7

As-Generated	Stored	3.7	Projected	0.0	Total	3.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	1.9	0.0	0.0	0.0	0.0	1.9
TDOP	9.6	0.0	0.0	0.0	0.0	9.6

Final Form	Stored	11.5	Projected	0.0	Total	11.5

TWBIR ID: IN-W267.1005

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream, generated at the Rocky Flats Plant, consists of grit such as aluminum oxide and iron fines and pellets used in grit-blasting operations and spent silica gel desiccant. The only organic material is the packaging, which averages about 5 lb/ft3, excluding the drum liner. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. The material is contained in 55-gallon drums. Inside the drums, the grit may be contained in PVC or PE bags in Vollrath stainless steel cans, or in 1-gallon PE bottles inside PVC and PE bags. Silica gel is placed directly into the prepared drums. Drums were prepared and inspected according to pre- and post-1972 procedures.
Waste Stream Source Description	This waste stream was generated at Bldgs 777, 776, and 771: Assembly, Laundry, Plutonium Recovery.. The generating process is: Grit blasting.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W309.609

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W309	**Handling**	CH	**Stream Name**	ORGANIC SETUPS, OIL SOLIDS:Uncert			**Inventory Date**	9/30/2002
Local ID	ID-RFO-003T	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S3114

EPA Codes

As-Generated
APP8, APP8, APP8, APP8, APP8, APP8, APP8, D005, D011, F001, F001, F001, F001, F001, F002, F004

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	110.92	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.85		
Packaging Material, Plastic	2.64		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.61E-02
Pu-238	1.30E-02
Pu-239	3.68E-01
Pu-240	8.34E-02
Pu-241	2.22E+00
Pu-242	5.99E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W309.609

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / Misc.	38.0	0.0	0.0	0.0	0.0	38.0
Drum	1533.2	0.0	0.0	0.0	0.0	1533.2

As-Generated	Stored	Projected	Total
	1571.2	0.0	1571.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	1273.9	0.0	0.0	0.0	0.0	1273.9
TDOP	6456.9	0.0	0.0	0.0	0.0	6456.9

Final Form	Stored	Projected	Total
	7730.8	0.0	7730.8

TWBIR ID: IN-W309.609

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Organic setups are produced from treatment of liquid organic wastes generated by various plutonium and nonplutonium operations. The organic wastes are mixed with calcium silicate to form a grease of paste-like material. Small amounts of oil-dri absorbent are usually mixed with the waste. Organic wastes such as degreasing agents (primarily trichloroethane), lathe coolant (machining oil and carbon tetrachloride), and hydraulic oils are generated primarily by plutonium fabrication operations. Other organic wastes include carbon tetrachloride; trichloroethylene; hydraulic, gearbox, and spindle oils; and trace concentrations of miscellaneous organic laboratory wastes. (organophosphates, nitrobenzene, etc.) In addition, unknown volumes of oil containing polychlorinated biphenyls (PCB) were processed with other organic wastes until 1979. Degreasing solvents generated by Building 444 operations are contaminated with beryllium. The PCB-contaminated wastes will be treated to meet WIPP-WAC.
Waste Stream Source Description	This waste stream was generated at All plutonium areas: Plutonium operations.. The generating process is: Mostly machining oils.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W315.601

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W315	**Handling**	CH	**Stream Name**	EVAPORATOR SALTS			**Inventory Date**	9/30/2002
Local ID	ID-RFO-005T	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3143

EPA Codes

As-Generated
D001

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	4.69	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	2.72	0.00	0.00
Other Inorganic Materials	7.70	0.00	0.00
Cellulosics	69.92	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.53	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.85		
Packaging Material, Plastic	22.22		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.71E+01
Pu-238	1.22E-02
Pu-239	3.45E-01
Pu-240	7.83E-02
Pu-241	2.08E+00
Pu-242	5.61E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W315.601

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / Misc.	3.2	0.0	0.0	0.0	0.0	3.2
Drum	11.0	0.0	0.0	0.0	0.0	11.0

As-Generated	Stored	Projected	Total
	14.2	0.0	14.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	5.7	0.0	0.0	0.0	0.0	5.7
TDOP	28.7	0.0	0.0	0.0	0.0	28.7

Final Form	Stored	Projected	Total
	34.4	0.0	34.4

TWBIR ID: IN-W315.601

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Waste is generated at Rocky Flats Plant from aqueous waste treatment in building 774. Waste consists of a salt residue generated from concentrating and drying liquid waste from the solar evaporation ponds. The approximate chemical makeup of the salt is 60% sodium nitrate, 30% potassium nitrate, and 10% miscellaneous. Limited amounts of other wastes such as surgeons' gloves, paper, rags, and metal may be found in the waste drums. Portland cement was added to damp or wet salt when necessary. The majority or salt drums in storage at the INEL should be contaminated with <10 nCi/g TRU. Salt waste is no longer shipped to the INEL. Since 1972, drums have been inspected for free liquids, proper packaging, and use of the proper content code. After inspection, approximately 1 to 2 quarts of Oil-Dri was placed on top of the outer sealed polyethylene drum bag.
Waste Stream Source Description	This waste stream was generated at Building 774: Aqueous Waste Treatment.. The generating process is: Concentrating and drying liquid waste.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W319.584

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W319	**Handling**	CH	**Stream Name**	LEACHED RESIN:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-431T	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3211

EPA Codes

As-Generated
D001

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	8.15	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	10.48	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.43		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	1.92E-01
Pu-239	5.46E+00
Pu-240	1.24E+00
Pu-241	3.29E+01
Pu-242	8.90E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W319.584

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	1.2	0.0	0.0	0.0	0.0	1.2

As-Generated	Stored	Projected	Total
	1.2	0.0	1.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	0.0	0.0	0.0	0.0	0.0	0.0
TDOP	4.8	0.0	0.0	0.0	0.0	4.8

Final Form	Stored	Projected	Total
	4.8	0.0	4.8

TWBIR ID: IN-W319.584

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste, generated at the Rocky Flats Plant, consists of anionic and cationic exchange resins used in the purification and recovery of plutonium and americium, respectively. It is believed that the resins were Content Code 430 resins tthat were processed by leaching to recover plutonium. Content code was used during 1972 only.
Waste Stream Source Description	This waste stream was generated at Bldg 771: Plutonium Recovery Operations.. The generating process is: Purification and recovery of plutonium and americium.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W321.1023

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W321	**Handling**	CH	**Stream Name**	UNLEACHED ION COLUMN RESIN:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-430T	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3211

EPA Codes

As-Generated
D001

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	14.54	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	18.70	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.85		
Packaging Material, Plastic	2.64		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	6.96E-01
Pu-239	1.97E+01
Pu-240	4.47E+00
Pu-241	1.19E+02
Pu-242	3.21E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W321.1023

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	6.0	0.0	0.0	0.0	0.0	6.0

As-Generated	Stored	Projected	Total
	6.0	0.0	6.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	1.9	0.0	0.0	0.0	0.0	1.9
TDOP	9.6	0.0	0.0	0.0	0.0	9.6

Final Form	Stored	Projected	Total
	11.5	0.0	11.5

TWBIR ID: IN-W321.1023

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste, generated at the Rocky Flats Plant, consists of anionic and cationic exchange resins used in the purification and recovery of plutonium and americium, respectively. The anionic resins were DOWEX 1-X4 and the cationic resins were DOWEX 50W-X8, both being polystyrene-divinylbenzene copolymers.
Waste Stream Source Description	This waste stream was generated at Bldg 771: Plutonium Recovery Operations.. The generating process is: Plutonium recovery.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W322.851

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W322	**Handling**	CH	**Stream Name**	SAMPLE FUEL:Direct Ship			**Inventory Date**	N/A
Local ID	ID-TRA-154TN	**Waste Type**	TRU	**Generator Site**	IN	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5121

EPA Codes

As-Generated
APP8

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	139.10	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	211.00		
Packaging Material, Plastic	16.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-239	4.83E+00
Pu-240	1.00E+00
U-235	1.31E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W322.851

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	Projected	Total
	0.4	0.0	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB used to overpack 55 gall	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	Projected	Total
	1.9	0.0	1.9

TWBIR ID: IN-W322.851

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream was generated at the INEL. These wastes include actinide neutron sources, a radium needle, small vials of fuel, and metal containers of experimental fuel capsules. The organic content is less than 14 lb/ft3. Combustibles, including packaging, may exceed 25 volume percent. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. These wastes are packaged three different ways, depending on when the packaging was done. Pu-Be sources packaged in 1975 were placed in a carbon steel pipe, which was cemented and encapsulated into the center of a 55-gallon drum. In 1978, Pu-Be sources were packaged in four 55-gallon drums. Wastes packed in 1980 were wrapped plastic, placed in paraffin lined 15-gallon drums, and then placed in 55-gallon drums.
Waste Stream Source Description	This waste stream was generated at Bldgs 660 and 661: UNK. The generating process is: UNK
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W322.952

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W322	**Handling**	CH	**Stream Name**	SAMPLE FUEL:Cert-repack			**Inventory Date**	4/30/1995
Local ID	ID-TRA-154TN	**Waste Type**	TRU	**Generator Site**	IN	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5121

EPA Codes

As-Generated
APP8

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	421.30	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-239	1.46E+01
Pu-240	3.03E+00
U-235	3.96E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W322.952

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated	Stored	1.5	Projected	0.0	Total	1.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.7	0.0	0.0	0.0	0.0	1.7

Final Form	Stored	1.7	Projected	0.0	Total	1.7

TWBIR ID: IN-W322.952

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream was generated at the INEL. These wastes include actinide neutron sources, a radium needle, small vials of fuel, and metal containers of experimental fuel capsules. The organic content is less than 14 lb/ft3. Combustibles, including packaging, may exceed 25 volume percent. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. These wastes are packaged three different ways, depending on when the packaging was done. Pu-Be sources packaged in 1975 were placed in a carbon steel pipe, which was cemented and encapsulated into the center of a 55-gallon drum. In 1978, Pu-Be sources were packaged in four 55-gallon drums. Wastes packed in 1980 were wrapped plastic, placed in paraffin lined 15-gallon drums, and then placed in 55-gallon drums.
Waste Stream Source Description	This waste stream was generated at Bldgs 660 and 661: UNK. The generating process is: UNK
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TWBIR ID: IN-W323.562

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W323	**Handling**	CH	**Stream Name**	COMBUSTIBLE LAB WASTE:Direct Ship			**Inventory Date**	N/A
Local ID	ID-INL-153TN	**Waste Type**	TRU	**Generator Site**	AW, IN	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
APP8, APP8

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	12.15	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.86	0.00	0.00
Cellulosics	70.39	0.00	0.00
Rubber	0.79	0.00	0.00
Plastics	7.03	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	211.00		
Packaging Material, Plastic	16.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	7.18E-01
Pu-239	1.32E-01
Pu-241	1.54E+00
U-235	5.07E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W323.562

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	Projected	Total
	0.4	0.0	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB used to overpack 55 gall	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	Projected	Total
	1.9	0.0	1.9

TWBIR ID: IN-W323.562

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream was generated at the Argonne National Laboratory-West at the INEL. Most of the waste is organic and combustible materials including paper, wood, PVC and plastic containers and items, rubber gaskets and gloves, leather, rags, towels, Q-tips, tubing, filter media, abrasive media, and metal pieces. Small residuals of moderators and fuel are trapped on the filters. One of the 28 total drums of Content Code 153 waste is stored at the Transuranic Storage Area (TSA) for contact-handled waste. The other 27 drums are stored at the intermediate level transuranic storage facility (ILTSF) for remote handled waste. The organic content may exceed 14 lb/ft3. Combustibles, including packaging, may exceed 25 volume percent. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. Individual waste items may be loose or plastic bagged. Combustibles and noncombustibles are segregated to separate waste cans. Each can is weighed and assayed. The inner waste cans are loaded into an outer waste drum, along with a lead shield plug. Assays are done for each can and for the drums. The waste stream is non-mixed, because the lead is shielding only and not considered part of waste stream.
Waste Stream Source Description	This waste stream was generated at UNK: UNK. The generating process is: UNK
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W323.951

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W323	**Handling**	CH	**Stream Name**	COMBUSTIBLE LAB WASTE:Uncertifiable			**Inventory Date**	N/A
Local ID	ID-INL-153TN	**Waste Type**	TRU	**Generator Site**	AW, IN	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
APP8, APP8

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	2500.00	2500.00	2500.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	0.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	465.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	7.74E-02
Pu-239	1.43E+00
Pu-241	1.65E+01
U-235	5.48E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W323.951

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Insert	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated	Stored	Projected	Total
	1.5	0.0	1.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: IN-W323.951

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream was generated at the Argonne National Laboratory-West at the INEL. Most of the waste is organic and combustible materials including paper, wood, PVC and plastic containers and items, rubber gaskets and gloves, leather, rags, towels, Q-tips, tubing, filter media, abrasive media, and metal pieces. Small residuals of moderators and fuel are trapped on the filters. One of the 28 total drums of Content Code 153 waste is stored at the Transuranic Storage Area (TSA) for contact-handled waste. The other 27 drums are stored at the intermediate level transuranic storage facility (ILTSF) for remote handled waste. The organic content may exceed 14 lb/ft3. Combustibles, including packaging, may exceed 25 volume percent. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. Individual waste items may be loose or plastic bagged. Combustibles and noncombustibles are segregated to separate waste cans. Each can is weighed and assayed. The inner waste cans are loaded into an outer waste drum, along with a lead shield plug. Assays are done for each can and for the drums. The waste stream is non-mixed, because the lead is shielding only and not considered part of waste stream.
Waste Stream Source Description	This waste stream was generated at UNK: UNK. The generating process is: UNK
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W332.661

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W332	**Handling**	CH	**Stream Name**	SOLIDIFIED SOLUTIONS:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-BCO-204T	**Waste Type**	TRU	**Generator Site**	BC	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3113

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	196.75	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	199.14	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.43		
Packaging Material, Plastic	23.67		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	3.71E+00
Pu-239	2.70E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W332.661

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated	Stored	Projected	Total
	1.5	0.0	1.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	0.0	0.0	0.0	0.0	0.0	0.0
TDOP	4.8	0.0	0.0	0.0	0.0	4.8

Final Form	Stored	Projected	Total
	4.8	0.0	4.8

TWBIR ID: IN-W332.661

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste comes from Battelle Columbus Labs. It is a turco soap decontamination solution (used to decontaminate glove boxes from a Pu lab) which is solidified in plaster-of-paris.
Waste Stream Source Description	This waste stream was generated at Plutonium Laboratory: Various. The generating process is: D&D
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W337.673

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W337	**Handling**	CH	**Stream Name**	AMERICIUM SOURCES:Cert-repack			**Inventory Date**	4/30/1995
Local ID	ID-TAN-200T	**Waste Type**	TRU	**Generator Site**	IN	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5121

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	421.30	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Source Information Not Compiled

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-239	1.46E+01
Pu-240	3.03E+00
U-235	3.96E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W337.673

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: IN-W337.673

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste was generated at the Idaho National Engineering Laboratory. It consists of an americium neutron source. No other wastes were included in the drum. The waste was placed in a carbon steel pipe which was centered in the 55-gallon drum. Cement was added to fill the annular space between the pipe and drum and encapsulate the pipe containing the source.
Waste Stream Source Description	This waste stream was generated at Test Area North: Instrument Calibrations.. The generating process is: Source disposal.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TWBIR ID: IN-W337.957

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W337	**Handling**	CH	**Stream Name**	AMERICIUM SOURCES:Direct Ship			**Inventory Date**	N/A
Local ID	ID-TAN-200T	**Waste Type**	TRU	**Generator Site**	IN	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5121

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	139.10	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	211.00		
Packaging Material, Plastic	16.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Source Information Not Compiled

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-239	4.83E+00
Pu-240	1.00E+00
U-235	1.31E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W337.957

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB used to overpack 55 gall	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	Projected	Total
	1.9	0.0	1.9

TWBIR ID: IN-W337.957

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste was generated at the Idaho National Engineering Laboratory. It consists of an americium neutron source. No other wastes were included in the drum. The waste was placed in a carbon steel pipe which was centered in the 55-gallon drum. Cement was added to fill the annular space between the pipe and drum and encapsulate the pipe containing the source.
Waste Stream Source Description	This waste stream was generated at Test Area North: Instrument Calibrations.. The generating process is: Source disposal.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W341.671

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W341	**Handling**	CH	**Stream Name**	ANL-W HFEF ANALYTICAL CHEMISTRY AND META:Cert-repack			**Inventory Date**	4/30/1995
Local ID	ID-ANL-160T	**Waste Type**	TRU	**Generator Site**	IN	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Source Information Not Compiled

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-239	9.39E+00
U-235	1.33E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W341.671

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Insert	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: IN-W341.671

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This wastestream, which was generated at ANL-W was generated during analytical chemistry and metallography operations. Item Description Code (IDC) 153 was replaced by IDC 160, ANL-W HFEF Analytical Chemistry and Metallographic Combsutibles. The waste package contains lead as shielding.
Waste Stream Source Description	This waste stream was generated at Argonne National Laboratory-West: UNK. The generating process is: Analytical chemistry & metallography.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TWBIR ID: IN-W341.954

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W341	**Handling**	CH	**Stream Name**	ANL-W HFEF ANALYTICAL CHEMISTRY AND META:Direct Ship			**Inventory Date**	N/A
Local ID	ID-ANL-160T	**Waste Type**	TRU	**Generator Site**	IN	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	211.00		
Packaging Material, Plastic	16.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Source Information Not Compiled

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-239	3.10E+00
U-235	4.38E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W341.954

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Insert	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB used to overpack 55 gall	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	Projected	Total
	1.9	0.0	1.9

TWBIR ID: IN-W341.954

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This wastestream, which was generated at ANL-W was generated during analytical chemistry and metallography operations. Item Description Code (IDC) 153 was replaced by IDC 160, ANL-W HFEF Analytical Chemistry and Metallographic Combsutibles. The waste package contains lead as shielding.
Waste Stream Source Description	This waste stream was generated at Argonne National Laboratory-West: UNK. The generating process is: Analytical chemistry & metallography.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W342.652

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W342	**Handling**	CH	**Stream Name**	MISCELLANEOUS SOURCES:Direct Ship			**Inventory Date**	N/A
Local ID	ID-INL-157T	**Waste Type**	TRU	**Generator Site**	IN	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S3100

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	111.26	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	211.00		
Packaging Material, Plastic	16.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Source Information Not Compiled

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.46E+00
Cf-252	1.84E-02
Pu-239	2.13E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W342.652

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB used to overpack 55 gall	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	Projected	Total
	1.9	0.0	1.9

TWBIR ID: IN-W342.652

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	There is no descriptive or constituent information available for this waste, which was generated at ANL-W. Based on engineering judgment, the waste was assigned to "Inorganic Homogeneous Solids." The waste is assumed to be metallic but of a size that is too small to qualify as debris.
Waste Stream Source Description	This waste stream was generated at UNK: UNK. The generating process is: UNK
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W342.953

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W342	**Handling**	CH	**Stream Name**	MISCELLANEOUS SOURCES:Cert-repack			**Inventory Date**	4/30/1995
Local ID	ID-INL-157T	**Waste Type**	TRU	**Generator Site**	IN	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S3100

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	337.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Source Information Not Compiled

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.47E+00
Cf-252	5.58E-02
Pu-239	6.46E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W342.953

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	Projected	Total
	0.4	0.0	0.4

TWBIR ID: IN-W342.953

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	There is no descriptive or constituent information available for this waste, which was generated at ANL-W. Based on engineering judgment, the waste was assigned to "Inorganic Homogeneous Solids." The waste is assumed to be metallic but of a size that is too small to qualify as debris.
Waste Stream Source Description	This waste stream was generated at UNK: UNK. The generating process is: UNK
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TWBIR ID: IN-W347.818

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W347	**Handling**	CH	**Stream Name**	ABSORBED LIQUIDS:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-AEO-102T	**Waste Type**	TRU	**Generator Site**	AE	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3113

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	63.97	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	137.01	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.84		
Packaging Material, Plastic	22.45		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.58E-02
Pu-239	5.37E-01
Pu-240	9.87E-01
Pu-242	0.00E+00
Th-232	8.19E-08
U-235	2.63E-07
U-238	2.80E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W347.818

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Bin	45.5	0.0	0.0	0.0	0.0	45.5
Drum	22.3	0.0	0.0	0.0	0.0	22.3

As-Generated	Stored	67.8	Projected	0.0	Total	67.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	24.6	0.0	0.0	0.0	0.0	24.6
TDOP	129.3	0.0	0.0	0.0	0.0	129.3

Final Form	Stored	153.9	Projected	0.0	Total	153.9

TWBIR ID: IN-W347.818

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste comes from Argonne National Laboratory-East. It consists of liquids adjusted to pH 10 using NaOH which are then absorbed in vermiculite.
Waste Stream Source Description	This waste stream was generated at All areas: Various. The generating process is: Various
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W348.1012

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W348	**Handling**	CH	**Stream Name**	SAND, SLAG, AND CRUCIBLE HEELS:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-393TN	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3117

EPA Codes

As-Generated
APP8

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	187.33	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.85		
Packaging Material, Plastic	22.41		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.60E-03
Pu-238	6.40E-01
Pu-239	1.82E+01
Pu-240	4.13E+00
Pu-242	2.97E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W348.1012

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	10.0	0.0	0.0	0.0	0.0	10.0

As-Generated	Stored	10.0	Projected	0.0	Total	10.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	3.8	0.0	0.0	0.0	0.0	3.8
TDOP	19.2	0.0	0.0	0.0	0.0	19.2

Final Form	Stored	22.9	Projected	0.0	Total	22.9

TWBIR ID: IN-W348.1012

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consists of insoluble residue or "heel" generated from processing magnesium oxide sand and pulverized slag and magnesium oxide crucibles to remove above-discard amounts of plutonium. Respirable fines are thought to exceed the WIPP-WAC limits. The waste stream handling and packaging is as follows: the dried heels were placed into 1/2 and 1-gallon PE bottles. Each bottle was double -bagged out the glovebox in PVC and PE bags. Each bottle was assayed and then placed in prepared 55-gallon drums, about 15-30 bottles per drum. Prior to 1972, the drums were lined with one or two PE bags, which were sealed with tape. Some of these drums may have cardboard liners inside the inner drum bag. After 1972, 90-mil sealed rigid liners were used in addition to one or two PE bags. Since 1972, drums were inspected (and corrected where needed for free liquids, proper packaging, and proper content code. One to two quarts of Oil-dri was placed on the outer sealed PE drum bag. Starting in february 1982, 3-12 lb of vermiculite was used to fill the space between the outer drum bag and the rigid liner.
Waste Stream Source Description	This waste stream was generated at Bldg 771: Plutonium Recovery.. The generating process is: Leaching of sand, slag, and crucibles.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W353.859

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W353	**Handling**	CH	**Stream Name**	SOLIDIFIED SOLUTIONS:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-BTO-050TN	**Waste Type**	TRU	**Generator Site**	BT	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3113

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	0.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Source Information Not Compiled

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Np-237	0.00E+00
Pu-239	0.00E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W353.859

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	0.0	0.0	0.0	0.0	0.0	0.0
TDOP	0.0	0.0	0.0	0.0	0.0	0.0

Final Form	Stored	Projected	Total
	0.0	0.0	0.0

TWBIR ID: IN-W353.859

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is from Bettis Atomic Power Laboratory. It consists of a single drum of TRU. No more information is available, but the waste is thought to be solidified inorganic solutions.
Waste Stream Source Description	This waste stream was generated at UNK: UNK. The generating process is: UNK
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W353.917

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W353	**Handling**	CH	**Stream Name**	SOLIDIFIED SOLUTIONS:Cert-repack			**Inventory Date**	4/30/1995
Local ID	ID-BTO-050TN	**Waste Type**	TRU	**Generator Site**	BT	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3113

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	461.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	4.24	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Source Information Not Compiled

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Np-237	3.33E-04
Pu-239	1.20E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W353.917

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: IN-W353.917

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is from Bettis Atomic Power Laboratory. It consists of a single drum of TRU. No more information is available, but the waste is thought to be solidified inorganic solutions.
Waste Stream Source Description	This waste stream was generated at UNK: UNK. The generating process is: UNK
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TWBIR ID: IN-W357.1022

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W357	**Handling**	CH	**Stream Name**	FLUID BED ASH:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-425TN	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S3111

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1.04	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	3.39	0.00	0.00
Cellulosics	5.03	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.78	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.43		
Packaging Material, Plastic	23.45		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	6.01E-03
Pu-239	1.71E-01
Pu-240	3.87E-02
Pu-242	2.78E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W357.1022

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	1.7	0.0	0.0	0.0	0.0	1.7

As-Generated	Stored	Projected	Total
	1.7	0.0	1.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	0.0	0.0	0.0	0.0	0.0	0.0
TDOP	4.8	0.0	0.0	0.0	0.0	4.8

Final Form	Stored	Projected	Total
	4.8	0.0	4.8

TWBIR ID: IN-W357.1022

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste , generated at the Rocky Flats Plant,consists of ash generated from the experimental pilot and demonstration fluid bed incinerator plants. Combustibles used for experiments were contaminated with low levels of Pu. Ash is packaged in standard RFP drums. Drums were assayed and fissile quantities calculated.
Waste Stream Source Description	This waste stream was generated at Building 776: Plutonium Operations.. The generating process is: Fluid bed incineration ash.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W358.854

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W358	**Handling**	CH	**Stream Name**	PU NEUTRON SOURCES:RH Direct Ship			**Inventory Date**	N/A
Local ID	ID-INL-152TN	**Waste Type**	TRU	**Generator Site**	IN	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
APP8

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	31.76	0.00	0.00
Aluminum-Base Metal/Alloys	0.26	0.00	0.00
Other Metal/Alloys	0.03	0.00	0.00
Other Inorganic Materials	0.79	0.00	0.00
Cellulosics	26.71	0.00	0.00
Rubber	2.41	0.00	0.00
Plastics	21.43	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	211.00		
Packaging Material, Plastic	16.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	2.19E+02
Pu-239	9.97E-01
Pu-240	1.92E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W358.854

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB used to overpack 55 gall	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	Projected	Total
	1.9	0.0	1.9

TWBIR ID: IN-W358.854

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream was generated at Argonne National Laboratory-West at the INEL. These wastes consist of noncombustible materials including Pu-Be neutron sources (small fuel samples, small sections of moderator, a pu standard, and pu foil), tools, hot cell operating equipment, various containers, and ferrous and nonferrous metals. Some combustible materials may include paper, plastic and PVC containers, rags, Q-tips, string mop heads, and an electrical plug strip and cord. The organic content is less than 14 lb/ft3. Combustibles, including packaging, may exceed 25 volume percent. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. These wastes are packaged three different ways, depending on when the packaging was done. Pu-Be sources packaged in 1975 were placed in a carbon steel pipe, which was cemented and encapsulated into the center of a 55-gallon drum. In 1978, Pu-Be sources were packaged in four 55-gallon drums. Wastes packed in 1980 were wrapped plastic, placed in paraffin lined 15 gallon drums, and then placed in 55-gallon drums. Some individual items may be unbagged.
Waste Stream Source Description	This waste stream was generated at TAN, NRF and ANL-W: Various. The generating process is: Discarded sources.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W358.855

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W358	**Handling**	CH	**Stream Name**	PU NEUTRON SOURCES:CH-Cert-repack			**Inventory Date**	4/30/1995
Local ID	ID-INL-152TN	**Waste Type**	TRU	**Generator Site**	IN	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
APP8

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	96.20	0.00	1634.60
Aluminum-Base Metal/Alloys	0.80	0.00	1.60
Other Metal/Alloys	0.10	0.00	22.70
Other Inorganic Materials	2.40	0.00	24.00
Cellulosics	80.90	0.00	184.80
Rubber	7.30	0.00	16.40
Plastics	64.90	0.00	149.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	6.65E+02
Pu-239	3.02E+00
Pu-240	5.81E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W358.855

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Bin	3.5	0.0	0.0	0.0	0.0	3.5

As-Generated	Stored	Projected	Total
	3.5	0.0	3.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	3.3	0.0	0.0	0.0	0.0	3.3

Final Form	Stored	Projected	Total
	3.3	0.0	3.3

TWBIR ID: IN-W358.855

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream was generated at Argonne National Laboratory-West at the INEL. These wastes consist of noncombustible materials including Pu-Be neutron sources (small fuel samples, small sections of moderator, a pu standard, and pu foil), tools, hot cell operating equipment, various containers, and ferrous and nonferrous metals. Some combustible materials may include paper, plastic and PVC containers, rags, Q-tips, string mop heads, and an electrical plug strip and cord. The organic content is less than 14 lb/ft3. Combustibles, including packaging, may exceed 25 volume percent. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. These wastes are packaged three different ways, depending on when the packaging was done. Pu-Be sources packaged in 1975 were placed in a carbon steel pipe, which was cemented and encapsulated into the center of a 55-gallon drum. In 1978, Pu-Be sources were packaged in four 55-gallon drums. Wastes packed in 1980 were wrapped plastic, placed in paraffin lined 15 gallon drums, and then placed in 55-gallon drums. Some individual items may be unbagged.
Waste Stream Source Description	This waste stream was generated at TAN, NRF and ANL-W: Various. The generating process is: Discarded sources.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TWBIR ID: IN-W358.948

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W358	**Handling**	CH	**Stream Name**	PU NEUTRON SOURCES:CH-Uncertifiable			**Inventory Date**	4/30/1995
Local ID	ID-INL-152TN	**Waste Type**	TRU	**Generator Site**	IN	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
APP8

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	2500.00	2500.00	2500.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	2.21E+03
Pu-239	1.01E+01
Pu-240	1.93E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W358.948

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: IN-W358.948

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream was generated at Argonne National Laboratory-West at the INEL. These wastes consist of noncombustible materials including Pu-Be neutron sources (small fuel samples, small sections of moderator, a pu standard, and pu foil), tools, hot cell operating equipment, various containers, and ferrous and nonferrous metals. Some combustible materials may include paper, plastic and PVC containers, rags, Q-tips, string mop heads, and an electrical plug strip and cord. The organic content is less than 14 lb/ft3. Combustibles, including packaging, may exceed 25 volume percent. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. These wastes are packaged three different ways, depending on when the packaging was done. Pu-Be sources packaged in 1975 were placed in a carbon steel pipe, which was cemented and encapsulated into the center of a 55-gallon drum. In 1978, Pu-Be sources were packaged in four 55-gallon drums. Wastes packed in 1980 were wrapped plastic, placed in paraffin lined 15 gallon drums, and then placed in 55-gallon drums. Some individual items may be unbagged.
Waste Stream Source Description	This waste stream was generated at TAN, NRF and ANL-W: Various. The generating process is: Discarded sources.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TWBIR ID: IN-W358.949

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W358	**Handling**	RH	**Stream Name**	PU NEUTRON SOURCES:RH-Cert-repack			**Inventory Date**	9/30/2002
Local ID	ID-INL-152TN	**Waste Type**	TRU	**Generator Site**	IN	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
APP8

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	55.60	0.00	1146.05
Aluminum-Base Metal/Alloys	0.46	0.00	1.12
Other Metal/Alloys	0.06	0.00	15.92
Other Inorganic Materials	1.39	0.00	16.83
Cellulosics	46.76	0.00	129.57
Rubber	4.22	0.00	11.50
Plastics	37.51	0.00	104.47
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.82		
Packaging Material, Plastic	27.65		
Packaging Material, Lead	464.41		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	4.66E+02
Pu-239	2.12E+00
Pu-240	4.07E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W358.949

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	1.3	0.0	0.0	0.0	0.0	1.3
RH Insert	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	1.5	Projected	0.0	Total	1.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	3.6	0.0	0.0	0.0	0.0	3.6
RH Canister used to overpack	2.5	0.0	0.0	0.0	0.0	2.5

Final Form	Stored	6.1	Projected	0.0	Total	6.1

TWBIR ID: IN-W358.949

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream was generated at Argonne National Laboratory-West at the INEL. These wastes consist of noncombustible materials including Pu-Be neutron sources (small fuel samples, small sections of moderator, a pu standard, and pu foil), tools, hot cell operating equipment, various containers, and ferrous and nonferrous metals. Some combustible materials may include paper, plastic and PVC containers, rags, Q-tips, string mop heads, and an electrical plug strip and cord. The organic content is less than 14 lb/ft3. Combustibles, including packaging, may exceed 25 volume percent. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. These wastes are packaged three different ways, depending on when the packaging was done. Pu-Be sources packaged in 1975 were placed in a carbon steel pipe, which was cemented and encapsulated into the center of a 55-gallon drum. In 1978, Pu-Be sources were packaged in four 55-gallon drums. Wastes packed in 1980 were wrapped plastic, placed in paraffin lined 15 gallon drums, and then placed in 55-gallon drums. Some individual items may be unbagged.
Waste Stream Source Description	This waste stream was generated at TAN, NRF and ANL-W: Various. The generating process is: Discarded sources.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years. Original data showed 3 RH canisters. Int. volume and # stored were changed to more accurately reflect the waste volume of 2.4 m3 as follows: 2.4 m3 / .208 m3/ drum = 11.538 drums, rounded to 12 drums. Tb 3/27/03

TWBIR ID: IN-W361.1021

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W361	**Handling**	CH	**Stream Name**	SOOT:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-422TN	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S3111

EPA Codes

As-Generated
APP8, APP8, APP8, APP8, APP8, APP8, APP8, APP8

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1.21	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	3.94	0.00	0.00
Cellulosics	5.84	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.91	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.85		
Packaging Material, Plastic	22.22		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.98E-03
Pu-238	2.43E-01
Pu-239	6.89E+00
Pu-240	1.56E+00
Pu-242	1.12E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W361.1021

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	5.2	0.0	0.0	0.0	0.0	5.2

As-Generated	Stored	5.2	Projected	0.0	Total	5.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	1.9	0.0	0.0	0.0	0.0	1.9
TDOP	9.6	0.0	0.0	0.0	0.0	9.6

Final Form	Stored	11.5	Projected	0.0	Total	11.5

TWBIR ID: IN-W361.1021

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste, generated at the Rocky Flats Plant, consists of flyash generated from periodic cleaning of the Pu recovery incinerator off-gas system. Ash is packaged in 1- and 2-quart PE bottles and then in standard RFP fashion in drums. Drums will hold up to 50 bottles depending on Pu content. Bottles are individually assayed and fissile quantities calculated.
Waste Stream Source Description	This waste stream was generated at Building 771: Plutonium Recovery Operations.. The generating process is: Pu recovery rncinerator fly ash.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W362.1020

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W362	**Handling**	CH	**Stream Name**	ASH HEELS:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-421TN	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S3111

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1.25	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	4.05	0.00	0.00
Cellulosics	6.01	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.94	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.85		
Packaging Material, Plastic	22.22		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	7.98E-01
Pu-239	2.25E+01
Pu-240	5.13E+00
Pu-242	3.68E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W362.1020

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	21.4	0.0	0.0	0.0	0.0	21.4

As-Generated	Stored	21.4	Projected	0.0	Total	21.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	7.6	0.0	0.0	0.0	0.0	7.6
TDOP	38.3	0.0	0.0	0.0	0.0	38.3

Final Form	Stored	45.9	Projected	0.0	Total	45.9

TWBIR ID: IN-W362.1020

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste, generated at the Rocky Flats Plant, consists of ash heels generated from the recovery of Pu from incinerator ash. Ash is packaged in 0.5-and 1-gallon PE bottles and then in standard RFP fashion in drums. Drums will hold up to 25 bottles depending on Pu content. Bottles are individually assayed and fissile quantities calculated.
Waste Stream Source Description	This waste stream was generated at Building 771: Plutonium Recovery Operations.. The generating process is: Leach of Pu recovery incineration ash.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W363.1019

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W363	**Handling**	CH	**Stream Name**	VIRGIN INCINERATOR ASH:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-420TN	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S3111

EPA Codes

As-Generated
APP8, APP8, APP8, APP8, APP8, APP8, APP8, APP8

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1.39	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	4.54	0.00	0.00
Cellulosics	6.73	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	1.05	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.43		
Packaging Material, Plastic	23.45		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	3.59E-01
Pu-239	1.02E+01
Pu-240	2.31E+00
Pu-242	1.66E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W363.1019

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	2.3	0.0	0.0	0.0	0.0	2.3

As-Generated	Stored	Projected	Total
	2.3	0.0	2.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	0.0	0.0	0.0	0.0	0.0	0.0
TDOP	4.8	0.0	0.0	0.0	0.0	4.8

Final Form	Stored	Projected	Total
	4.8	0.0	4.8

TWBIR ID: IN-W363.1019

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste, generated at the Rocky Flats Plant, consists of ash generated in the Pu recovery incinerator. Ash is packaged in 0.5- and 1-gallon PE bottles and then in standard RFP fashion in drums. Drums will hold up to 25 bottles depending on Pu content. Bottles are individually assayed and fissile quantities calculated.
Waste Stream Source Description	This waste stream was generated at Building 771: Plutonium Recovery Operations.. The generating process is: Pu recovery incinerator ash.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W364.1011

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W364	**Handling**	CH	**Stream Name**	SAND, SLAG AND CRUCIBLES:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-392TN	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S3117

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	146.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.43		
Packaging Material, Plastic	23.67		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	5.93E-01
Pu-239	1.68E+01
Pu-240	3.81E+00
Pu-242	2.73E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W364.1011

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated	Stored	Projected	Total
	1.5	0.0	1.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	0.0	0.0	0.0	0.0	0.0	0.0
TDOP	4.8	0.0	0.0	0.0	0.0	4.8

Final Form	Stored	Projected	Total
	4.8	0.0	4.8

TWBIR ID: IN-W364.1011

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Specific information is not available for this content code. The waste stream is thought to be similar to content code 391, crucibles and sand. The operation which generated the waste is unknown. The waste packaging and handling procedures are unknown, although the waste form is thought to similar to content code 391.
Waste Stream Source Description	This waste stream was generated at Bldg 776: UNK. The generating process is: UNK
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W365.1010

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W365	**Handling**	CH	**Stream Name**	CRUCIBLES AND SAND:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-391TN	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S3117

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	175.57	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.85		
Packaging Material, Plastic	22.41		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.78E+01
Pu-238	1.96E-01
Pu-239	5.54E+00
Pu-240	1.26E+00
Pu-242	9.04E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W365.1010

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	4.8	0.0	0.0	0.0	0.0	4.8

As-Generated	Stored	4.8	Projected	0.0	Total	4.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	1.9	0.0	0.0	0.0	0.0	1.9
TDOP	9.6	0.0	0.0	0.0	0.0	9.6

Final Form	Stored	11.5	Projected	0.0	Total	11.5

TWBIR ID: IN-W365.1010

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consists of broken magnesium oxide crucibles and limited amounts of magnesium oxide sand, used in a molten salt cleanup project when reducing plutonium tetrafluoride to plutonium metal. Above-discard levels of plutonium were recovered from these crucibles by nitric acid leaching. The waste stream handling and packaging is as follows: the crucibles were placed into 1-gallon PE bottles. Each bottle was double-bagged out the glovebox in PVC and PE bags. Each bottle was assayed and the placed in prepared 55 gallon drums, about 12-16 bottles per drum. Some of the drums were lead-lined. Prior to 1972, the drums were lined with one or two PE bags, which were sealed with tape. Some of the drums may have cardboard liners inside of the inner liner. After 1972, 90-mil sealed rigid liners were used in addition to one or two PE bags. Since 1972, drums were inspected (and corrected where needed) for free liquids, proper packaging, and proper content code. One to two quarts of Oil-dri was placed on the outer sealed PE drum bag. Starting in February 1982, 3-12 lb of vermiculite was used to fill the space between the outer drum bag and the rigid liner.
Waste Stream Source Description	This waste stream was generated at Bldg 776 and 771: Pyrochemical and Plutonium Recovery Operations.. The generating process is: Plutonium recovery.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W366.841

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W366	**Handling**	CH	**Stream Name**	LECO CRUCIBLES:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-370TN	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S3117

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	194.07	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.73		
Packaging Material, Plastic	22.78		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Analytical Laboratory Waste

TRUCON Codes

222

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.00E-02
Pu-238	1.18E-01
Pu-239	3.33E+00
Pu-240	7.55E-01
Pu-242	5.44E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W366.841

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	7.5	0.0	0.0	0.0	0.0	7.5

As-Generated	Stored	7.5	Projected	0.0	Total	7.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	1.9	0.0	0.0	0.0	0.0	1.9
TDOP	14.4	0.0	0.0	0.0	0.0	14.4

Final Form	Stored	16.3	Projected	0.0	Total	16.3

TWBIR ID: IN-W366.841

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream includes blank LECO crucibles and caps used for sample analysis. The crucibles are 1 inch high by 1 inch diameter, made of fired silica based ceramic. The crucibles were used to calibrate the LECO anlayzer, and contain fused amounts of accelerating metals (iron, tin, copper, titanium, stainless steel, etc.) used for blank calibration. The crucibles should be unbroken except for those generated prior to 1975, which were broken before packaging. Even when broken, there should be minimal respirable or dispersable fines which would not exceed the WIPP-WAC. The waste stream handling and packaging is as follows: blank crucibles and caps were placed into 1-gallon metal paint cans, about 150-200 per can. The can lid was placed and sealed with tape. each paint can was double-bagged out the glovebox in PVC or PE-PVC bags and placed in prepared 55-gallon drums, about 20-25 cans per drum. Prior to 1972, 90-mil sealed rigid liners were used in addition to the two PE bags. Since 1972, drums were inspected (and corrected where needed) for free liquids, proper packaging, and proper content code. One to two quarts of Oil-dri was placed on the outer sealed PE drum bag. Starting in February 1982, 3-12 lb of vermiculite was used to fill the space between the outer drum bag and the rigid liner.
Waste Stream Source Description	This waste stream was generated at Bldg 559: Plutonium Laboratory.. The generating process is: Sample analysis.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W372.832

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W372	**Handling**	CH	**Stream Name**	MET SAMPLES FISSILE:Direct Ship			**Inventory Date**	N/A
Local ID	ID-BTO-081TN	**Waste Type**	TRU	**Generator Site**	BT	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S3100

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	111.26	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	211.00		
Packaging Material, Plastic	16.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Source Information Not Compiled

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.46E+00
Cf-252	1.84E-02
Pu-239	2.13E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W372.832

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	0.6	Projected	0.0	Total	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB used to overpack 55 gall	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	1.9	Projected	0.0	Total	1.9

TWBIR ID: IN-W372.832

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	There is no descriptive or constituent information available for this waste, which was generated at Bettis Atomic Power Laboratory.
Waste Stream Source Description	This waste stream was generated at UNK: UNK. The generating process is: UNK
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W372.918

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W372	**Handling**	RH	**Stream Name**	MET SAMPLES FISSILE:RH-Cert-repack			**Inventory Date**	9/30/2002
Local ID	ID-BTO-081TN	**Waste Type**	TRU	**Generator Site**	BT	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S3100

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	270.87	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.80		
Packaging Material, Plastic	27.61		
Packaging Material, Lead	464.40		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Source Information Not Compiled

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.54E-02
Cs-137	5.51E-02
Pu-238	3.12E-02
Pu-239	8.20E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W372.918

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	3.0	0.0	0.0	0.0	0.0	3.0

As-Generated	Stored	3.0	Projected	0.0	Total	3.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	7.1	0.0	0.0	0.0	0.0	7.1
RH Canister used to overpack	4.8	0.0	0.0	0.0	0.0	4.8

Final Form	Stored	11.9	Projected	0.0	Total	11.9

TWBIR ID: IN-W372.918

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	There is no descriptive or constituent information available for this waste, which was generated at Bettis Atomic Power Laboratory.
Waste Stream Source Description	This waste stream was generated at UNK: UNK. The generating process is: UNK
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years. Original data showed 6 RH Canisters. Int. volume and # stored changed to more accurately reflect the waste volume of 4.7 m3 as follows: 4.7 m3 / .208 m3 / drum = 22.596 drums, rounded to 23 drums. Tb 3/27/03.

TWBIR ID: IN-W375.1096

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W375	**Handling**	CH	**Stream Name**	SLUDGE:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-995TN	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3122

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	96.11	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	86.53	0.00	0.00
Cement (Solidified)	57.66	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.84		
Packaging Material, Plastic	22.25		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Pollution Control or Waste Treatment Process

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	3.54E-03
Pu-239	1.00E-01
Pu-240	2.27E-02
Pu-242	1.63E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W375.1096

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / Misc.	25.4	0.0	0.0	0.0	0.0	25.4
Drum / 55 gallon	62.8	0.0	0.0	0.0	0.0	62.8

As-Generated	Stored	Projected	Total
	88.2	0.0	88.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	32.1	0.0	0.0	0.0	0.0	32.1
TDOP	167.6	0.0	0.0	0.0	0.0	167.6

Final Form	Stored	Projected	Total
	199.8	0.0	199.8

TWBIR ID: IN-W375.1096

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream, generated at the Rocky Flats Plant, is sewage sludge from cleaning stabilization ponds. This waste also contains a limited number of drums containing sludge generated by plutonium recovery operations. The sludge may be moist or dry, and may consist of fines, chunks or pieces of dried cake. Shipment of sewer sludge to the INEL stopped in 1976. There are high levels of fines. In addition the drums may contain free liquids. The sewage sludge should contain less than 10 nCi/g TRU elements. The portion of the waste that is suspected to be TRU is addressed by this waste stream. Organic content in the sludge is not known. No free liquids should be present. No explosive, pyrophoric, or corrosive materials should be in the waste. Sewer sludge was placed directly into prepared 55-gallon drums until 1974. Drums were prepared according to pre and post-1972 procedures. Portland cement was added to the bottom and top of the inner bag. If the sludge was moist, portland cement was also added in layers with the sludge. Since 1974, packaging was changed to 4 x 4 x 7 ft fiberglass-reinforced polyester (FRP) coated plywood boxes due to the pressure buildup in the drums. Each box was lined with a PE bag and a cardboard liner. About 90 lb of portland cement was added to the bottom and top of each box. Fissile content of the sewage was determined by radiochemical analysis of sludge samples.
Waste Stream Source Description	This waste stream was generated at Bldgs 995 and 771: Sewage Treatment and Plutonium Recovery.. The generating process is: Cleaning stabilization ponds.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: KA-T001

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	KA-T001	**Handling**	RH	**Stream Name**	Transuranic Debris			**Inventory Date**	9/30/2002
Local ID	KA-T001	**Waste Type**	TRU	**Generator Site**	KA	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	68.70	0.00	0.00
Aluminum-Base Metal/Alloys	0.60	0.00	0.00
Other Metal/Alloys	0.10	0.00	0.00
Other Inorganic Materials	1.70	0.00	0.00
Cellulosics	56.00	0.00	0.00
Rubber	5.10	0.00	0.00
Plastics	45.40	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.00		
Packaging Material, Plastic	26.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ac-227	3.48E-10
Am-241	2.22E-04
Am-243	3.90E-07
C-14	1.37E-05
Cf-249	2.95E-14
Cf-251	3.72E-16
Cf-252	1.79E-17
Cm-243	1.14E-07
Cm-244	1.16E-05
Cm-245	3.60E-09
Cm-246	4.69E-10
Cm-247	1.11E-15
Cm-248	2.19E-15
Cs-135	2.97E-06

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : KA-T001

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister / 5-gallon	3.1	0.9	1.8	1.1	0.0	7.1

As-Generated	Stored	Projected	Total
	3.1	4.0	7.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	0.0	0.0	122.8

Final Form	Stored	Projected	Total
	0.0	122.8	122.8

TWBIR ID: KA-T001

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Cs-137	5.83E-01
I-129	2.71E-07
Ni-59	1.29E-06
Ni-63	1.41E-04
Np-237	6.29E-06
Pa-231	7.06E-10
Pb-210	1.71E-11
Pd-107	1.24E-07
Pm-147	5.69E-04
Pu-238	2.11E-02
Pu-239	5.59E-05
Pu-240	1.40E-05
Pu-241	2.08E-03
Pu-242	5.34E-08

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Pu-244	1.27E-14
Ra-226	6.64E-11
Ra-228	2.96E-13
Se-79	7.62E-07
Sm-151	8.60E-03
Sn-121m	2.25E-05
Sn-126	2.48E-06
Sr-90	5.55E-01
Tc-99	1.56E-04
Th-229	6.82E-12
Th-230	9.93E-09
Th-232	3.05E-13
U-232	2.55E-07
U-233	2.85E-09

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
U-234	3.55E-05
U-235	5.32E-07
U-236	5.05E-06
U-238	2.34E-09
Zr-93	1.91E-05

Waste Stream Description Organic and inorganic particulate and debris.

Waste Stream Source Description Waste from laboratory testing and analysis.

Current Container Comments N/A

EPA Comments Material in this waste stream is not a hazardous waste.

Management Comments N/A

Acceptance Comments The current inventory identified in section 4.1.2.1 and the projected generation identified in section 5.1.3 consists of stored TRU which has not been completely characterized. It is expected that 20% of this material will be finally classified as LLW or MLLW. It is expected that 10% of this material will be finally classified as MTRU waste (KA-W016). The remainder will be finally classified as TRU waste. Data date is 12/31/01.

Final Form Comments KAPL expects that once the 5 gallon container is in the 55 gallon drum, the 55 gallon drum will be CH, but that would not change the characterization of the waste.

TWBIR ID: KA-W016

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	KA-W016	**Handling**	RH	**Stream Name**	Transuranic Debris			**Inventory Date**	9/30/2002
Local ID	KA-W016	**Waste Type**	MTRU	**Generator Site**	KA	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D018, D035, D039, D040, F001, F002, F003, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	68.90	0.00	0.00
Aluminum-Base Metal/Alloys	0.60	0.00	0.00
Other Metal/Alloys	0.10	0.00	0.00
Other Inorganic Materials	1.70	0.00	0.00
Cellulosics	56.70	0.00	0.00
Rubber	5.10	0.00	0.00
Plastics	45.50	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.00		
Packaging Material, Plastic	26.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ac-227	3.48E-10
Am-241	2.23E-04
Am-243	3.91E-07
C-14	1.37E-05
Cf-249	2.96E-14
Cf-251	3.73E-16
Cf-252	1.79E-17
Cm-243	1.14E-07
Cm-244	1.16E-05
Cm-245	3.61E-09
Cm-246	4.70E-10
Cm-247	1.11E-15
Cm-248	2.19E-15
Cs-135	2.98E-06

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : KA-W016

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister / 5-gallon	0.0	0.1	0.2	0.1	0.0	0.7

As-Generated	Stored	Projected	Total
	0.0	0.7	0.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	0.0	0.0	12.5

Final Form	Stored	Projected	Total
	0.0	12.5	12.5

TWBIR ID: KA-W016

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Cs-137	5.84E-01
I-129	2.72E-07
Ni-59	1.29E-06
Ni-63	1.41E-04
Np-237	6.31E-06
Pa-231	7.08E-10
Pb-210	1.71E-11
Pd-107	1.25E-07
Pm-147	5.71E-04
Pu-238	2.12E-02
Pu-239	5.60E-05
Pu-240	1.40E-05
Pu-241	2.09E-03
Pu-242	5.35E-08

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Pu-244	1.27E-14
Ra-226	6.66E-11
Ra-228	2.97E-13
Se-79	7.64E-07
Sm-151	8.62E-03
Sn-121m	2.25E-05
Sn-126	2.49E-06
Sr-90	5.57E-01
Tc-99	1.56E-04
Th-229	6.84E-12
Th-230	9.96E-09
Th-232	3.06E-13
U-232	2.55E-07
U-233	2.85E-09

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
U-234	3.56E-05
U-235	5.34E-07
U-236	5.06E-06
U-238	2.34E-09
Zr-93	1.91E-05

Waste Stream Description This transuranic mixed waste has not yet been generated. Waste will be segregated to the extent possible (considering ALARA) into inorganic, organic and heterogeneous waste streams and packaged separately. Details of waste characteristics will be developed upon generation. This waste stream will not be moratorium waste.

Waste Stream Source Description Waste generated through R&D programs

Current Container Comments N/A

EPA Comments This waste has not yet been generated. The identification of hazardous constituents listed is based on process knowledge of potential contaminants.

Management Comments N/A

Acceptance Comments This data is consistent with the data provided to the State and EPA in the Proposed Site Treatment Plan. Data date is 12/31/01.

Final Form Comments N/A

TWBIR ID: KN-B234TRU

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Building 234 TRU Waste			**Inventory Date**	9/30/2002
Local ID	B234TRU	**Waste Type**	TRU	**Generator Site**	KN	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	35.70	0.00	0.00
Aluminum-Base Metal/Alloys	2.60	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	33.60	0.00	0.00
Cellulosics	5.10	0.00	0.00
Rubber	0.30	0.00	0.00
Plastics	31.50	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	68.60	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.48E-01
Pu-238	5.91E-02
Pu-239	7.04E-01
Pu-240	2.37E-01
PU-241	1.24E+00
Pu-242	1.83E-06
Tc-99	1.11E-04
Th-228	7.45E-07
Th-232	1.30E-07
U-232	7.45E-07
U-233	6.72E-05
U-234	4.72E-06
U-235	2.25E-07
U-238	1.79E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : KN-B234TRU

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / B-12	1.3	0.0	0.0	0.0	0.0	1.3
Box / B-25	17.9	0.0	0.0	0.0	0.0	17.9
CNS Small HIC	3.1	0.0	0.0	0.0	0.0	3.1
Drum / 55 gallon	30.4	170.4	0.0	0.0	0.0	200.5
NUKEM NUHIC-55 HIC	2.3	0.0	0.0	0.0	0.0	2.3

As-Generated	Stored	54.9	Projected	170.1	Total	225.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	54.9	0.0	0.0	0.0	0.0	225.1

Final Form	Stored	54.9	Projected	170.1	Total	225.1

TWBIR ID: KN-B234TRU

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste is non-hazardous debris and soil from Building 234. All process equipment and glove boxes were removed in the early 1990s and are not part of this waste stream. The debris consists of concrete block, metal, PPE, plywood, plexiglass, plastic, HEPA filters, piping, duct work, glass, cheese cloth, paper, rubber and small tools.
Waste Stream Source Description	N/A
Current Container Comments	HDPE material
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	FF assumption to use 55-gallon drums affirmed by John L. Cummings @ KAPL. WMP calculated from As-Gen information reported using a % total volume weighted average.

TWBIR ID: LA-IT-00-01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Combustible and non-combustible debris waste from ITRI Project			**Inventory Date**	9/30/2002
Local ID	IT-00-01	**Waste Type**	MTRU	**Generator Site**	IT	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	20.51	0.18	188.42
Aluminum-Base Metal/Alloys	2.80	0.18	33.06
Other Metal/Alloys	2.28	0.18	27.86
Other Inorganic Materials	102.54	0.18	226.84
Cellulosics	2.22	0.18	10.08
Rubber	1.16	0.18	5.18
Plastics	4.59	0.18	67.45
Solidified, Inorganic Matrix	0.18	0.18	0.18
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	1.09	0.18	16.02
Soils	0.18	0.18	0.18
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.51E-01
Cf-249	1.06E-05
Cm-244	4.69E-01
Pu-238	5.26E-01
Pu-239	5.99E-02
U-233	1.02E-06
U-238	8.54E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-IT-00-01

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	9.8	0.0	0.0	0.0	0.0	9.8

As-Generated	Stored	9.8	Projected	0.0	Total	9.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	9.8	0.0	0.0	0.0	0.0	9.8

Final Form	Stored	9.8	Projected	0.0	Total	9.8

TWBIR ID: LA-IT-00-01

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Combustible and non-combustible debris generated between 1975 and 1984 by Inhalation Toxicology Research Institute (ITRI) run by Lovelace on the Kirtland Air Force Base. Laboratory waste that may contain rags, tools, biological waste. Pu-239 waste, may be mixed, with unknown RCRA codes
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAM009, LAT004, LAT005 and LAT009
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-OS-00-01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Metal debris from Off-Site Source Recovery (OSR) project (non-mixed)			**Inventory Date**	9/30/2002
Local ID	OS-00-01	**Waste Type**	TRU	**Generator Site**	ZZ	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5100

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	190.24	0.00	0.00
Aluminum-Base Metal/Alloys	0.18	0.00	0.00
Other Metal/Alloys	6.07	0.00	0.00
Other Inorganic Materials	0.66	0.00	0.00
Cellulosics	0.73	0.00	0.00
Rubber	0.31	0.00	0.00
Plastics	5.86	0.00	0.00
Solidified, Inorganic Matrix	0.52	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.18	0.00	0.00
Soils	0.37	0.00	0.00
Packaging Material, Steel	525.22		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.25E+01
Am-241	1.28E+01
Pu-238	2.68E+03
Pu-238	6.69E+01
Pu-239	1.77E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-OS-00-01

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
POC	37.7	248.8	331.8	0.0	0.0	618.3

As-Generated	Stored	Projected	Total
	37.7	580.6	618.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
POC	2.1	0.0	0.0	0.0	0.0	34.1

Final Form	Stored	Projected	Total
	2.1	32.0	34.1

TWBIR ID: LA-OS-00-01

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Off-Site Source Recovery (OSR) sealed sources are radionuclide (actinide) solids (e.g., Am, Pu, AmBe, or PuBe) that are encapsulated in metal jackets. The actinides are either metal or metal oxides.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Containes containers not previously associated with an identified BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-PX-00-01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Combustible debris waste generated by PANTEX	**Inventory Date**	9/30/2002
Local ID	PX-00-01	**Waste Type**	MTRU	**Generator Site**	PX	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	52.81	0.00	0.00
Aluminum-Base Metal/Alloys	0.96	0.00	0.00
Other Metal/Alloys	0.70	0.00	0.00
Other Inorganic Materials	4.63	0.00	0.00
Cellulosics	15.28	0.00	0.00
Rubber	2.70	0.00	0.00
Plastics	22.21	0.00	0.00
Solidified, Inorganic Matrix	1.79	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	1.02	0.00	0.00
Soils	1.24	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Unknown
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.32E-02
Pu-238	1.35E-02
Pu-239	1.45E-01
Pu-240	3.41E-02
Pu-241	3.49E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-PX-00-01

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	0.6	Projected	0.0	Total	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	0.6	Projected	0.0	Total	0.6

TWBIR ID: LA-PX-00-01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Not provided
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS ID: LAT004
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-SL-00-01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Non-combustible debris waste generated by Sandia National Laboratories (mixed)			**Inventory Date**	9/30/2002
Local ID	SL-00-01	**Waste Type**	MTRU	**Generator Site**	SA	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	20.51	0.18	188.42
Aluminum-Base Metal/Alloys	2.80	0.18	33.06
Other Metal/Alloys	2.28	0.18	27.86
Other Inorganic Materials	102.54	0.18	226.84
Cellulosics	2.22	0.18	10.08
Rubber	1.16	0.18	5.18
Plastics	4.59	0.18	67.45
Solidified, Inorganic Matrix	0.18	0.18	0.18
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	1.09	0.18	16.02
Soils	0.18	0.18	0.18
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Np-237	1.24E-02
Pu-238	5.00E-01
Pu-239	3.67E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-SL-00-01

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: LA-SL-00-01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Non-combustible debris waste generated by Sandia National Laboratories. May contain lead.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS ID: LAT005
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-03-12

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Combustible debris waste from chemistry operations in wings 3, 5, and 7 of the CMR facility (mix			**Inventory Date**	9/30/2002
Local ID	TA-03-12	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5300

EPA Codes

As-Generated
D007, D008, D009

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1.20	0.00	0.00
Aluminum-Base Metal/Alloys	0.30	0.00	0.00
Other Metal/Alloys	0.30	0.00	0.00
Other Inorganic Materials	6.50	0.00	0.00
Cellulosics	18.80	0.00	0.00
Rubber	8.80	0.00	0.00
Plastics	33.70	0.00	0.00
Solidified, Inorganic Matrix	0.20	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.40	0.00	0.00
Soils	0.20	0.00	0.00
Packaging Material, Steel	130.89		
Packaging Material, Plastic	36.97		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.26E-04
Am-243	3.80E-08
Cs-137	7.48E-11
Np-237	4.36E-08
Pu-238	2.24E-02
Pu-239	1.97E-03
Pu-240	6.91E-04
Pu-241	1.85E-02
Pu-242	1.72E-07
Pu-244	9.44E-15
U-234	2.69E-08
U-235	1.40E-09
U-236	1.17E-10
U-238	2.78E-11

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-03-12

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	220.5	0.0	0.0	0.0	0.0	220.5
Drum / 85-gallon	0.6	0.0	0.0	0.0	0.0	0.6
Unknown Small	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated	Stored	Projected	Total
	221.1	0.0	221.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	220.7	0.0	0.0	0.0	0.0	220.7
85 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	Projected	Total
	221.3	0.0	221.3

TWBIR ID: LA-TA-03-12

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Combustible waste generated from facility and equipment operations and maintenance. This waste includes paper, rags, plastic, rubber, wood-based HEPA filters, and plastic-based and cellulose-based waste generated at the facility. Plastic-based waste includes, but may not be limited to, tape, polyethylene and vinyl; gloves; plastic vials; polystyrene; Tygon tubing; polyvinyl chloride plastic; Teflon products; Plexiglas; and dry box gloves (unleaded neoprene base). Cellulose-based waste includes, but may not be limited to, rags, wood, paper, cardboard, laboratory coats and coveralls, booties and cotton gloves, and similar materials. The waste stream may also contain a smaller fraction of non-combustible solids (e.g., scrap metal, crucibles, metal lids, zippers, discarded tools) and a small fraction of homogenous solids, salts, leached solids, ash, hydroxide cakes, crucibles, impure oxides.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAM001, LAM004, LAT004, LAT005, LAT009, also containes containers not previously associated with an identified BIR WS.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-03-13

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Combustible debris waste from chemistry operations in wings 3, 5, and 7 of the CMR facility (non			**Inventory Date**	9/30/2002
Local ID	TA-03-13	**Waste Type**	TRU	**Generator Site**	LA	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5300

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	3.19	0.00	0.00
Aluminum-Base Metal/Alloys	0.27	0.00	0.00
Other Metal/Alloys	0.22	0.00	0.00
Other Inorganic Materials	3.47	0.00	0.00
Cellulosics	22.75	0.00	0.00
Rubber	5.30	0.00	0.00
Plastics	88.58	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.53E-03
Am-243	2.35E-06
Np-237	2.16E-07
Pu-238	2.98E-01
Pu-239	1.47E-02
Pu-240	3.45E-03
Pu-241	5.42E-02
Pu-242	5.61E-06
Pu-244	5.16E-12
U-234	3.03E-07
U-235	1.06E-08
U-236	1.26E-09
U-238	1.69E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-03-13

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	46.4	0.0	0.0	0.0	0.0	46.4

As-Generated	Stored	46.4	Projected	0.0	Total	46.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	46.4	0.0	0.0	0.0	0.0	46.4

Final Form	Stored	46.4	Projected	0.0	Total	46.4

TWBIR ID: LA-TA-03-13

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Combustible waste generated from facility and equipment operations and maintenance. This waste includes paper, rags, plastic, rubber, wood-based HEPA filters, and plastic-based and cellulose-based waste generated at the facility. Plastic-based waste includes, but may not be limited to, tape, polyethylene and vinyl; gloves; plastic vials; polystyrene; Tygon tubing; polyvinyl chloride plastic; Teflon products; Plexiglas; and dry box gloves (unleaded neoprene base). Cellulose-based waste includes, but may not be limited to, rags, wood, paper, cardboard, laboratory coats and coveralls, booties and cotton gloves, and similar materials. The waste stream may also contain a smaller fraction of non-combustible solids (e.g., scrap metal, crucibles, metal lids, zippers, discarded tools) and a small fraction of homogenous solids, salts, leached solids, ash, hydroxide cakes, crucibles, impure oxides. Major: R, C, PW, Minor: IM, OM, AM, OI, OR, IN. No soil (S) present in this waste stream.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAM004, LAM005, LAM009, LAT004, LAT009, also containes containers not previously associated with an identified BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-03-19

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Non-combustible and combustible debris waste from operations in wings 3, 5, and 7 of the CMR f	**Inventory Date**	9/30/2002
Local ID	TA-03-19	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
D007, D008, D009

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	20.10	0.00	0.00
Aluminum-Base Metal/Alloys	2.70	0.00	0.00
Other Metal/Alloys	2.20	0.00	0.00
Other Inorganic Materials	100.50	0.00	0.00
Cellulosics	2.20	0.00	0.00
Rubber	1.10	0.00	0.00
Plastics	4.50	0.00	0.00
Solidified, Inorganic Matrix	0.20	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	1.10	0.00	0.00
Soils	0.20	0.00	0.00
Packaging Material, Steel	137.32		
Packaging Material, Plastic	31.21		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ac-227	1.84E-05
Am-241	1.81E-03
Am-243	2.26E-06
Np-237	1.83E-07
Pu-238	1.30E-01
Pu-239	7.41E-03
Pu-240	2.15E-03
Pu-241	4.66E-02
Pu-242	1.26E-06
Pu-244	7.36E-13
U-234	9.16E-08
U-235	1.06E-08
U-236	3.79E-10
U-238	1.57E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-03-19

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	141.0	0.0	0.0	0.0	0.0	141.0
Drum / 30-gallon / Pit	4.2	0.0	0.0	0.0	0.0	4.2
Drum / 85-gallon	2.6	0.0	0.0	0.0	0.0	2.6
Standard Waste Box	28.4	0.0	0.0	0.0	0.0	28.4
Unknown Small	0.1	0.0	0.0	0.0	0.0	0.1

As-Generated	Stored	176.2	Projected	0.0	Total	176.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	141.2	0.0	0.0	0.0	0.0	141.2
55 Gallon Drum/Overpack 30	7.7	0.0	0.0	0.0	0.0	7.7
85 Gallon Drum	2.6	0.0	0.0	0.0	0.0	2.6
Standard Waste Box	28.4	0.0	0.0	0.0	0.0	28.4

Final Form	Stored	179.9	Projected	0.0	Total	179.9

TWBIR ID: LA-TA-03-19

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Non-combustible and combustible waste generated from facility and equipment operations and maintenance. This waste includes, but may not be limited to, small tools, small equipment, cans, motors, pumps, process equipment, gloveboxes, ventilation ductwork, HEPA filters, pipes, glass, graphite, slag and crucibles, salt, discarded lab ware, windows, and bottles. The waste stream may also contain a smaller fraction of combustible solids (e.g., paper, rags, plastic, rubber, leaded gloves) and a small fraction of homogeneous solids (e.g., leached solids, ash, hydroxide cakes, impure oxides).
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAM001, LAM004, LAM005, LAM009, LAT004, LAT005, and LAT009; also contains containers not previously associated with an identified BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-03-20

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Combustible debris waste from chemistry and metallurgical operations in wings 2 and 4 of the C			**Inventory Date**	9/30/2002
Local ID	TA-03-20	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5300

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	3.31	0.00	52.97
Aluminum-Base Metal/Alloys	0.64	0.00	9.14
Other Metal/Alloys	0.57	0.00	7.22
Other Inorganic Materials	1.77	0.00	7.49
Cellulosics	19.70	0.00	39.42
Rubber	9.41	0.00	19.50
Plastics	32.47	0.00	65.38
Solidified, Inorganic Matrix	0.46	0.00	11.45
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	2.06	0.00	54.64
Soils	0.37	0.00	7.69
Packaging Material, Steel	130.58		
Packaging Material, Plastic	36.89		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.89E-03
Np-237	2.87E-06
Pu-238	3.56E-01
Pu-239	1.95E-02
Pu-240	6.91E-03
Pu-241	1.79E-01
Pu-242	1.52E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-03-20

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	29.7	0.0	0.0	0.0	0.0	29.7
Drum / 85-gallon	0.3	0.0	0.0	0.0	0.0	0.3

As-Generated	Stored	30.1	Projected	0.0	Total	30.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	29.7	0.0	0.0	0.0	0.0	29.7
Drum / 85-gallon	0.3	0.0	0.0	0.0	0.0	0.3

Final Form	Stored	30.1	Projected	0.0	Total	30.1

TWBIR ID: LA-TA-03-20

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Combustible waste generated from facility and equipment operations and maintenance. This waste includes paper, rags, plastic, rubber, wood-based HEPA filters, and plastic-based and cellulose-based waste generated at the facility. Plastic-based waste includes, but may not be limited to, tape, polyethylene and vinyl; gloves; plastic vials; polystyrene; Tygon tubing; polyvinyl chloride plastic; Teflon products; Plexiglas; and dry box gloves (unleaded neoprene base). Cellulose-based waste includes, but may not be limited to, rags, wood, paper, cardboard, laboratory coats and coveralls, booties and cotton gloves, and similar materials. The waste stream may also contain a smaller fraction of non-combustible solids (e.g., scrap metal, crucibles, metal lids, zippers, discarded tools) and a small fraction of homogenous solids, salts, leached solids, ash, hydroxide cakes, crucibles, impure oxides.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAM004, LAT004, LAT005, LAT009
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-03-24

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Non-combustible and combustible debris waste from operations in wings 2 and 4 of the CMR faci			**Inventory Date**	9/30/2002
Local ID	TA-03-24	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	40.10	0.00	0.00
Aluminum-Base Metal/Alloys	4.00	0.00	0.00
Other Metal/Alloys	3.20	0.00	0.00
Other Inorganic Materials	13.40	0.00	0.00
Cellulosics	5.50	0.00	0.00
Rubber	2.80	0.00	0.00
Plastics	8.90	0.00	0.00
Solidified, Inorganic Matrix	0.20	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.20	0.00	0.00
Soils	0.20	0.00	0.00
Packaging Material, Steel	140.30		
Packaging Material, Plastic	27.64		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.43E-03
Am-243	1.73E-08
Np-237	1.73E-06
Pu-238	1.46E+00
Pu-239	3.65E-02
Pu-240	1.11E-02
Pu-241	2.50E-01
Pu-242	1.91E-06
U-235	9.54E-08
U-238	8.32E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-03-24

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	19.3	0.0	0.0	0.0	0.0	19.3
Drum / 30-gallon / Pit	1.0	0.0	0.0	0.0	0.0	1.0
Drum / 85-gallon	1.0	0.0	0.0	0.0	0.0	1.0
Standard Waste Box	7.6	0.0	0.0	0.0	0.0	7.6
Unknown Small	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated	Stored	28.9	Projected	0.0	Total	28.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
	0.0	0.0	0.0	0.0	0.0	0.0
55 Gallon Drum	19.6	0.0	0.0	0.0	0.0	19.6
55 Gallon Drum/Overpack 30	1.9	0.0	0.0	0.0	0.0	1.9
85 Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0
Standard Waste Box	7.6	0.0	0.0	0.0	0.0	7.6

Final Form	Stored	29.9	Projected	0.0	Total	29.9

TWBIR ID: LA-TA-03-24

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Non-combustible waste generated from facility and equipment operations and maintenance. This waste includes, but may not be limited to, small tools, small equipment, cans, motors, pumps, process equipment, gloveboxes, ventilation ductwork, HEPA filters, pipes, glass, graphite, slag and crucibles, salt, discarded lab ware, windows, and bottles. The waste stream may also contain a smaller fraction of combustible solids (e.g., paper, rags, plastic, rubber, leaded gloves) and a small fraction of homogeneous solids (e.g., leached solids, ash, hydroxide cakes, impure oxides).
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAM001, LAM005, LAT004, LAT005, LAT007, LAT009; also contains containers not previously associated with an identifed BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-03-26

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Non-combustible and combustible hot cell debris waste from wing 9 of the CMR facility (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-03-26	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	20.70	0.00	0.00
Aluminum-Base Metal/Alloys	4.20	0.00	0.00
Other Metal/Alloys	3.50	0.00	0.00
Other Inorganic Materials	6.40	0.00	0.00
Cellulosics	7.20	0.00	0.00
Rubber	3.60	0.00	0.00
Plastics	11.10	0.00	0.00
Solidified, Inorganic Matrix	0.20	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.20	0.00	0.00
Soils	0.20	0.00	0.00
Packaging Material, Steel	145.33		
Packaging Material, Plastic	14.70		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.87E-05
Pu-238	7.40E-02
Pu-239	1.09E-01
Pu-240	1.79E-03
Pu-241	2.70E-02
Pu-242	1.05E-07
U-234	3.58E-05
U-235	9.41E-06
U-236	1.51E-07
U-238	1.04E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-03-26

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	7.5	0.0	0.0	0.0	0.0	7.5
Standard Waste Box	15.1	0.0	0.0	0.0	0.0	15.1
Unknown Small	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated Stored 24.1 | Projected 0.0 | Total 24.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	9.2	0.0	0.0	0.0	0.0	9.2
Standard Waste Box	15.1	0.0	0.0	0.0	0.0	15.1

Final Form Stored 24.3 | Projected 0.0 | Total 24.3

TWBIR ID: LA-TA-03-26

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Contact-handled hot cell waste, including both combustible and noncombustible waste forms, generated from facility and equipment operations and maintenance.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAT004, LAT007, LAT009; also contains containers not previously associated with an identified BIR WS.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-03-27

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	Combined combustible and noncombustible debris waste (RH-TRU) from wing 9 of the CMR facil			**Inventory Date**	9/30/2002
Local ID	TA-03-27	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	15.40	0.00	0.00
Aluminum-Base Metal/Alloys	2.10	0.00	0.00
Other Metal/Alloys	1.70	0.00	0.00
Other Inorganic Materials	77.20	0.00	0.00
Cellulosics	1.70	0.00	0.00
Rubber	0.90	0.00	0.00
Plastics	3.50	0.00	0.00
Solidified, Inorganic Matrix	0.10	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.80	0.00	0.00
Soils	0.10	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Cs-137	2.58E-01
Eu-155	4.82E-03
Pu-238	1.37E-04
Pu-239	2.03E-02
Pu-240	2.21E-04
Pu-241	7.98E-03
Pu-242	1.32E-07
Ru-106	1.92E-03
Sb-125	1.03E-02
U-234	1.52E-07
U-235	8.04E-07
U-236	7.00E-10
U-238	3.53E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-03-27

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Remote Handled	72.5	0.0	0.0	0.0	0.0	72.5
Remote Handled/1-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Remote Handled/2-gallon	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated	Stored	72.8	Projected	0.0	Total	72.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	124.6	0.0	0.0	0.0	0.0	124.6

Final Form	Stored	124.6	Projected	0.0	Total	124.6

TWBIR ID: LA-TA-03-27

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Combustible and non-combustible remote handled waste (RH-TRU). This waste stream contains both combustible and non-combustible waste that is classified as "remotely handled". Combustible waste is generated from facility and equipment operations and maintenance. Combustible waste includes paper, rags, plastic, rubber, and plastic-based and cellulose-based waste generated at the facility. Plastic based waste includes, but may not be limited to, tape, polyethylene, and vinyl; gloves; plastic vials; polystyrene; Tygon tubing; polyvinyl chloride plastic; Teflon products; plexiglass; and dry box gloves (unleaded Neoprene base).Cellulose-based waste includes, but may not be limited to rags, wood, paper, cardboard, laboratory coats and coveralls, booties and cotton gloves, and similar materials. Noncombustible scrap waste is also generated from facility and equipment operations and maintenance. Noncombustible waste includes items such as small tools, cans, small equipment items, and broken glass. This waste consists of glass waste including, but not limited to, discarded labware, windows, and bottles; metal waste including motors, pumps, tools, and process equipment; leaded rubber, and metal waste including lead-lined glovebox gloves discarded along with metal waste, such as motors and tools.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAMR01, LAMR05, LATR04, LATR05, and LATR07.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-03-28

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Cement paste from CMR building (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-03-28	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3100

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.18	0.18	0.18
Aluminum-Base Metal/Alloys	0.18	0.18	0.18
Other Metal/Alloys	0.18	0.18	0.18
Other Inorganic Materials	0.18	0.18	0.18
Cellulosics	0.18	0.18	0.18
Rubber	0.18	0.18	0.18
Plastics	0.18	0.18	0.18
Solidified, Inorganic Matrix	165.82	165.82	165.82
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	828.39	828.39	828.39
Soils	110.61	110.61	110.61
Packaging Material, Steel	126.70		
Packaging Material, Plastic	35.90		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	1.05E-01
Pu-239	4.24E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-03-28

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	5.2	0.0	0.0	0.0	0.0	5.2
Drum / 85-gallon	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated — **Stored** 5.8 | **Projected** 0.0 | **Total** 5.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	5.2	0.0	0.0	0.0	0.0	5.2
Drum / 85-gallon	0.6	0.0	0.0	0.0	0.0	0.6

Final Form — **Stored** 5.8 | **Projected** 0.0 | **Total** 5.8

TWBIR ID: LA-TA-03-28

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Solidified aqueous waste and cemented sludge generated from facility and equipment operations and maintenance. The sludge is a residue from numerous treatment and filtration operations involving aqueous liquid radioactive waste. This treatment produces a thin sludge (approximately 25 percent solids) that is alkaline and is compatible with Portland cement. Final cemented waste monoliths are produced by mixing the waste in 55-gallon steel drums containing empirically determined quantities of sludge, Portland cement, vermiculite, and sodium silicate.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAM002 and LAM009.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-03-30

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Absorbed Organics on vermiculite (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-03-30	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3200

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.20	0.00	0.00
Aluminum-Base Metal/Alloys	0.20	0.00	0.00
Other Metal/Alloys	0.20	0.00	0.00
Other Inorganic Materials	0.20	0.00	0.00
Cellulosics	0.20	0.00	0.00
Rubber	0.20	0.00	0.00
Plastics	0.20	0.00	0.00
Solidified, Inorganic Matrix	146.90	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	733.80	0.00	0.00
Soils	98.00	0.00	0.00
Packaging Material, Steel	150.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	5.22E-01
Pu-239	6.05E+00
Pu-240	1.76E+00
Pu-241	3.56E+01
Pu-242	2.64E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-03-30

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
30 Gallon Drum	0.1	0.0	0.0	0.0	0.0	0.1
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	0.7	Projected	0.0	Total	0.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
55 Gallon Drum/Overpack 30	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.8	Projected	0.0	Total	0.8

TWBIR ID: LA-TA-03-30

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Organic liquids (solvents and oils) generated from facility and equipment operations and maintenance and absorbed on vermiculite.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAT004, LAM006, also containes containers not previously associated with an identified BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-03-31

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Cemented inorganics, leached process solids (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-03-31	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3100

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.18	0.18	0.18
Aluminum-Base Metal/Alloys	0.18	0.18	0.18
Other Metal/Alloys	0.18	0.18	0.18
Other Inorganic Materials	0.18	0.18	0.18
Cellulosics	0.18	0.18	0.18
Rubber	0.18	0.18	0.18
Plastics	0.20	0.18	0.69
Solidified, Inorganic Matrix	723.21	133.36	905.54
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	85.91	0.18	672.77
Soils	11.61	0.18	89.86
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	1.05E-01
Pu-239	4.24E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-03-31

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: LA-TA-03-31

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Solidified inorganic process solids generated from facility and equipment operations and maintenance. This waste consists of process leached solids, ash, filter cakes, salts, metal oxides, fines, and evaporator bottoms stabilized in Portland or gypsum cement.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAM006
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-03-40

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Metals debris generated from decontamination and decommissioning activities in Wings 2, 3, 4,			**Inventory Date**	9/30/2002
Local ID	TA-03-40	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	112.30	0.00	0.00
Aluminum-Base Metal/Alloys	0.10	0.00	0.00
Other Metal/Alloys	3.60	0.00	0.00
Other Inorganic Materials	0.40	0.00	0.00
Cellulosics	0.40	0.00	0.00
Rubber	0.20	0.00	0.00
Plastics	3.50	0.00	0.00
Solidified, Inorganic Matrix	0.30	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.10	0.00	0.00
Soils	0.20	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	1.31E-04
Pu-239	2.06E-04
U-235	3.35E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-03-40

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Crate	27.7	0.0	0.0	0.0	0.0	27.7
Crate / Pit	113.3	0.0	0.0	0.0	0.0	113.3
FRP Box	16.0	0.0	0.0	0.0	0.0	16.0

As-Generated — **Stored** 157.0 — **Projected** 0.0 — **Total** 157.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
5'x5'x8' Box	266.0	0.0	0.0	0.0	0.0	266.0

Final Form — **Stored** 266.0 — **Projected** 0.0 — **Total** 266.0

TWBIR ID: LA-TA-03-40

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consists mostly of metals or metal equipment, either whole or sectioned, and small volumes of combustibles generated during decommissioning, sectioning, and packaging. The waste forms primarily include gloveboxes, tools, cans, motors, pumps, decommissioned process equipment, and ductwork
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAM001, LAM009, LAT009
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-03-42

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	HEPA filter debris waste from wings 2, 3, 4, 5, and 7 of CMR Building (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-03-42	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	8.70	0.00	0.00
Aluminum-Base Metal/Alloys	0.10	0.00	0.00
Other Metal/Alloys	0.10	0.00	0.00
Other Inorganic Materials	0.10	0.00	0.00
Cellulosics	2.40	0.00	0.00
Rubber	0.10	0.00	0.00
Plastics	2.10	0.00	0.00
Solidified, Inorganic Matrix	0.10	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.10	0.00	0.00
Soils	0.10	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	2.91E-06
Pu-239	1.14E-05
Pu-240	1.51E-07
Pu-241	2.28E-06
Pu-242	8.70E-12

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-03-42

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Crate	57.6	0.0	0.0	0.0	0.0	57.6
Crate / Pit	85.0	0.0	0.0	0.0	0.0	85.0
FRP Box	34.0	0.0	0.0	0.0	0.0	34.0

As-Generated — **Stored** 176.6 | **Projected** 0.0 | **Total** 176.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
5'x5'x8' Box	300.0	0.0	0.0	0.0	0.0	300.0

Final Form — **Stored** 300.0 | **Projected** 0.0 | **Total** 300.0

TWBIR ID: LA-TA-03-42

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	HEPA filter waste generated from facility and equipment operations and maintenance. A small fraction of combustible waste, such as plastics (mainly packaging), may also be present in this waste stream.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAT005, LAT009
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-21-06

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Combustible debris waste (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-21-06	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5300

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	2.90	0.00	0.00
Aluminum-Base Metal/Alloys	0.20	0.00	0.00
Other Metal/Alloys	0.20	0.00	0.00
Other Inorganic Materials	3.20	0.00	0.00
Cellulosics	20.70	0.00	0.00
Rubber	4.80	0.00	0.00
Plastics	46.90	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	145.86		
Packaging Material, Plastic	36.96		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.74E-07
Pu-238	4.21E-01
Pu-239	4.23E-03
Pu-240	1.30E-03
Pu-241	2.96E-02
Pu-242	2.41E-07
U-235	1.98E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-21-06

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	180.8	0.0	0.0	0.0	0.0	180.8
Drum / 30-gallon / Pit	24.3	0.0	0.0	0.0	0.0	24.3
Drum / 80-gallon	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated	Stored	206.0	Projected	0.0	Total	206.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	180.8	0.0	0.0	0.0	0.0	180.8
55 Gallon Drum/Overpack 30	44.7	0.0	0.0	0.0	0.0	44.7
80 Gallon Drum	0.9	0.0	0.0	0.0	0.0	0.9

Final Form	Stored	226.4	Projected	0.0	Total	226.4

TWBIR ID: LA-TA-21-06

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Combustible waste generated from facility and equipment operations and maintenance. This waste includes paper, rags, plastic, rubber, wood-based HEPA filters, and plastic-based and cellulose-based waste generated at the facility. Plastic-based waste includes, but may not be limited to, tape, polyethylene and vinyl; gloves; plastic vials; polystyrene; Tygon tubing; polyvinyl chloride plastic; Teflon products; Plexiglas; and dry box gloves (unleaded neoprene base). Cellulose-based waste includes, but may not be limited to, rags, wood, paper, cardboard, laboratory coats and coveralls, booties and cotton gloves, and similar materials. The waste stream may also contain a smaller fraction of non-combustible solids (e.g., scrap metal, crucibles, metal lids, zippers, discarded tools) and a small fraction of homogenous solids, salts, leached solids, ash, hydroxide cakes, crucibles, impure oxides.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAM004, LAT004
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-21-12

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Non-combustible and combustible debris waste (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-21-12	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1.40	0.00	0.00
Aluminum-Base Metal/Alloys	0.20	0.00	0.00
Other Metal/Alloys	0.20	0.00	0.00
Other Inorganic Materials	0.20	0.00	0.00
Cellulosics	21.20	0.00	0.00
Rubber	8.50	0.00	0.00
Plastics	35.80	0.00	0.00
Solidified, Inorganic Matrix	0.20	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.20	0.00	0.00
Soils	0.20	0.00	0.00
Packaging Material, Steel	151.78		
Packaging Material, Plastic	34.88		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.88E-04
Pu-238	2.18E+00
Pu-239	1.26E-02
Pu-240	3.78E-03
Pu-241	8.72E-02
Pu-242	7.48E-07
U-233	1.14E-03
U-234	3.03E-08
U-235	5.75E-08
U-238	8.12E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-21-12

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum & Pit	179.5	0.0	0.0	0.0	0.0	179.5
Drum / 15-gallon	1.3	0.0	0.0	0.0	0.0	1.3
Drum / 30-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Drum / 30-gallon / Pit	35.5	0.0	0.0	0.0	0.0	35.5
Drum / 85-gallon	1.9	0.0	0.0	0.0	0.0	1.9
Standard Waste Box	15.1	0.0	0.0	0.0	0.0	15.1

As-Generated	Stored	233.6	Projected	0.0	Total	233.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	179.5	0.0	0.0	0.0	0.0	179.5
55 Gallon Drum/Overpack 15	1.7	0.0	0.0	0.0	0.0	1.7
55 Gallon Drum/Overpack 30	65.7	0.0	0.0	0.0	0.0	65.7
85 Gallon Drum	1.9	0.0	0.0	0.0	0.0	1.9
Standard Waste Box	15.1	0.0	0.0	0.0	0.0	15.1

Final Form	Stored	263.9	Projected	0.0	Total	263.9

TWBIR ID: LA-TA-21-12

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Non-combustible and combustible waste generated from facility and equipment operations and maintenance. This waste includes, but may not be limited to, small tools, small equipment, cans, motors, pumps, process equipment, gloveboxes, ventilation ductwork, HEPA filters, pipes, glass, graphite, slag and crucibles, salt, discarded lab ware, windows, and bottles. The waste stream may also contain a smaller fraction of combustible solids (e.g., paper, rags, plastic, rubber, leaded gloves) and a small fraction of homogeneous solids (e.g., leached solids, ash, hydroxide cakes, impure oxides).
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAM001, LAT004, LAT005, LAT006, LAT009, also containes containers not previously associated with an identified BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-21-13

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Cemented wastewater treatment sludge (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-21-13	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3100

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.18	0.18	0.18
Aluminum-Base Metal/Alloys	0.18	0.18	0.18
Other Metal/Alloys	0.18	0.18	0.18
Other Inorganic Materials	0.18	0.18	0.18
Cellulosics	0.18	0.18	0.18
Rubber	0.18	0.18	0.18
Plastics	0.18	0.18	0.18
Solidified, Inorganic Matrix	165.82	165.82	165.82
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	828.39	828.39	828.39
Soils	110.61	110.61	110.61
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.03E-02
Pu-239	1.81E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-21-13

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	16.2	0.0	0.0	0.0	0.0	16.2

As-Generated	Stored	16.2	Projected	0.0	Total	16.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	16.2	0.0	0.0	0.0	0.0	16.2

Final Form	Stored	16.2	Projected	0.0	Total	16.2

TWBIR ID: LA-TA-21-13

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Solidified aqueous waste generated from facility and equipment operations and maintenance. Solidified aqueous waste is a dewatered sludge generated by the vacuum filtration of solids from treated aqueous waste slurry. The filter media (diatomaceous earth) with the entrapped filtrate is then placed in drums with dry concreted absorbent.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAM002
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-21-14

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Plutonium contaminated soil (non-mixed)			**Inventory Date**	9/30/2002
Local ID	TA-21-14	**Waste Type**	TRU	**Generator Site**	LA	**Final Waste Form**	Soils	**Waste Matrix Code**	S4100

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1.15	1.15	1.15
Aluminum-Base Metal/Alloys	0.45	0.45	0.45
Other Metal/Alloys	0.50	0.50	0.50
Other Inorganic Materials	0.18	0.18	1.15
Cellulosics	2.43	2.43	2.43
Rubber	1.27	1.27	1.27
Plastics	3.56	3.56	3.56
Solidified, Inorganic Matrix	14.47	14.47	14.47
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	76.26	76.26	76.26
Soils	10.55	10.55	10.55
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.19E-05
Pu-238	1.17E+00
Pu-239	5.68E-01
Pu-240	6.64E-06
Pu-241	4.09E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-21-14

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	7.9	0.0	0.0	0.0	0.0	7.9

As-Generated	Stored	7.9	Projected	0.0	Total	7.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	7.9	0.0	0.0	0.0	0.0	7.9

Final Form	Stored	7.9	Projected	0.0	Total	7.9

TWBIR ID: LA-TA-21-14

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Soils contaminated with transuranic material.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAT008
Acceptance Comments	N/A
Final Form Comments	Waste stream derived from LA-TA-03-28. BAC 4/2/03

TWBIR ID: LA-TA-21-15

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Solidified organics (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-21-15	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3200

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.20	0.00	0.00
Aluminum-Base Metal/Alloys	0.20	0.00	0.00
Other Metal/Alloys	0.20	0.00	0.00
Other Inorganic Materials	0.20	0.00	0.00
Cellulosics	0.20	0.00	0.00
Rubber	0.20	0.00	0.00
Plastics	0.20	0.00	0.00
Solidified, Inorganic Matrix	161.40	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	806.10	0.00	0.00
Soils	107.60	0.00	0.00
Packaging Material, Steel	135.47		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.17E-04
Pu-238	8.47E-03
Pu-239	3.92E-01
Pu-240	6.76E-02
Pu-241	1.02E+00
Pu-242	3.89E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-21-15

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	3.3	0.0	0.0	0.0	0.0	3.3
Drum / 30-gallon / Pit	0.1	0.0	0.0	0.0	0.0	0.1

As-Generated	Stored	3.4	Projected	0.0	Total	3.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	3.3	0.0	0.0	0.0	0.0	3.3
55 Gallon Drum/Overpack 30	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	3.5	Projected	0.0	Total	3.5

TWBIR ID: LA-TA-21-15

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Organic liquids generated from facility and equipment operations and maintenance and absorbed on vermiculite.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAT004, LAT006
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-21-16

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Cemented inorganics (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-21-16	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3100

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.10	0.00	0.00
Aluminum-Base Metal/Alloys	0.10	0.00	0.00
Other Metal/Alloys	0.10	0.00	0.00
Other Inorganic Materials	0.10	0.00	0.00
Cellulosics	0.10	0.00	0.00
Rubber	0.10	0.00	0.00
Plastics	0.10	0.00	0.00
Solidified, Inorganic Matrix	528.60	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	62.80	0.00	0.00
Soils	8.50	0.00	0.00
Packaging Material, Steel	175.60		
Packaging Material, Plastic	36.96		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.38E-04
Pu-238	6.54E-03
Pu-239	1.48E-01
Pu-240	3.55E-02
Pu-241	5.85E-01
Pu-242	3.03E-06
U-235	8.72E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-21-16

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 30 gallon	22.9	0.0	0.0	0.0	0.0	22.9
Drum / 55 gallon	29.1	0.0	0.0	0.0	0.0	29.1
Drum / 85 gallon	0.3	0.0	0.0	0.0	0.0	0.3

As-Generated	Stored	52.4	Projected	0.0	Total	52.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	29.1	0.0	0.0	0.0	0.0	29.1
55 Gallon Drum/Overpack 30	42.2	0.0	0.0	0.0	0.0	42.2
85 Gallon Drum	0.3	0.0	0.0	0.0	0.0	0.3

Final Form	Stored	71.7	Projected	0.0	Total	71.7

TWBIR ID: LA-TA-21-16

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Solidified inorganic process solids generated from facility and equipment operations and maintenance. This waste consists of process leached solids, ash, filter cakes, salts, metal oxides, fines, or evaporator bottoms stabilized in Portland or gypsum cement.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAM006, LAM009
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-21-40

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Metal debris (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-21-40	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	52.70	0.00	0.00
Aluminum-Base Metal/Alloys	1.00	0.00	0.00
Other Metal/Alloys	0.70	0.00	0.00
Other Inorganic Materials	4.60	0.00	0.00
Cellulosics	15.30	0.00	0.00
Rubber	2.70	0.00	0.00
Plastics	22.20	0.00	0.00
Solidified, Inorganic Matrix	1.80	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	1.00	0.00	0.00
Soils	1.20	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	1.94E-03
Pu-239	3.26E-04
Pu-240	3.63E-07
Pu-241	5.47E-06
Pu-242	2.09E-11

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-21-40

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
crate	732.9	0.0	0.0	0.0	0.0	732.9
FRP Box	288.0	0.0	0.0	0.0	0.0	288.0

As-Generated	Stored	1020.9	Projected	0.0	Total	1020.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
	0.0	0.0	0.0	0.0	0.0	0.0
Standard Waste Box	1022.5	0.0	0.0	0.0	0.0	1022.5

Final Form	Stored	1022.5	Projected	0.0	Total	1022.5

TWBIR ID: LA-TA-21-40

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Mixed metal scrap, discarded gloveboxes, and incidental combustible waste generated from facility and equipment decontamination and decommissioning at TA21. This waste consists mostly of metals or metal equipment, either whole or sectioned, gloveboxes, glovebox equipment, glass, and small volumes of combustibles generated during decommissioning. This waste may also include items such as small tools, cans, motors, and pumps. Gloveboxes may include gloves, wiring, plastic, glass windows, plastic wrapping, and lead shielding.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAM001, LAM009
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-21-41

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Plutonium-contaminated soil (non-mixed)			**Inventory Date**	9/30/2002
Local ID	TA-21-41	**Waste Type**	TRU	**Generator Site**	LA	**Final Waste Form**	Soils	**Waste Matrix Code**	S4100

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.80	0.00	0.00
Aluminum-Base Metal/Alloys	0.30	0.00	0.00
Other Metal/Alloys	0.30	0.00	0.00
Other Inorganic Materials	0.10	0.00	0.00
Cellulosics	1.60	0.00	0.00
Rubber	0.80	0.00	0.00
Plastics	2.30	0.00	0.00
Solidified, Inorganic Matrix	9.50	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	50.10	0.00	0.00
Soils	6.90	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	0.05		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-239	1.71E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-21-41

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
crate	22.5	0.0	0.0	0.0	0.0	22.5
crate/pit	3.2	0.0	0.0	0.0	0.0	3.2
FRP Box	1.6	0.0	0.0	0.0	0.0	1.6

As-Generated	Stored	27.3	Projected	0.0	Total	27.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
	0.0	0.0	0.0	0.0	0.0	0.0
5'x5'x8' Box	39.6	0.0	0.0	0.0	0.0	39.6
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	41.5	Projected	0.0	Total	41.5

TWBIR ID: LA-TA-21-41

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Soils contaminated with transuranic material resulting from TA21 decontamination and decommissioning.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAT008, LAT009
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-21-42

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Metal debris (nonmixed)			**Inventory Date**	9/30/2002
Local ID	TA-21-42	**Waste Type**	TRU	**Generator Site**	LA	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	164.70	0.00	0.00
Aluminum-Base Metal/Alloys	0.20	0.00	0.00
Other Metal/Alloys	5.30	0.00	0.00
Other Inorganic Materials	0.60	0.00	0.00
Cellulosics	0.60	0.00	0.00
Rubber	0.30	0.00	0.00
Plastics	5.10	0.00	0.00
Solidified, Inorganic Matrix	0.40	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.20	0.00	0.00
Soils	0.30	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	0.19		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.56E-05
Np-237	3.23E-10
Pu-238	9.91E-04
Pu-239	2.38E-04
Pu-240	1.63E-05
Pu-241	3.87E-04
Pu-242	9.38E-10
U-235	1.01E-10

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-21-42

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
crate	95.2	0.0	0.0	0.0	0.0	95.2
crate/pit	483.1	0.0	0.0	0.0	0.0	483.1
FRP Box	9.7	0.0	0.0	0.0	0.0	9.7
Other/Pit	9.9	0.0	0.0	0.0	0.0	9.9

As-Generated	Stored	597.9	Projected	0.0	Total	597.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
	0.0	0.0	0.0	0.0	0.0	0.0
5'x5'x8' Box	583.0	0.0	0.0	0.0	0.0	583.0
Standard Waste Box	107.7	0.0	0.0	0.0	0.0	107.7

Final Form	Stored	690.7	Projected	0.0	Total	690.7

TWBIR ID: LA-TA-21-42

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Metal scrap, discarded gloveboxes, and incidental combustible waste generated from facility and equipment decontamination and decommissioning at TA21. This waste consists mostly of metals or metal equipment, either whole or sectioned gloveboxes, glovebox equipment, glass, and small volumes of combustibles generated during decommissioning. This waste may also include items such as small tools, cans, motors, and pumps. Gloveboxes may include gloves, wiring, plastic, glass windows, and plastic wrapping.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAM001, LAT001, LAT004, LAT009
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-21-43

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Corrugated Metal Pipes and Area T Shafts (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-21-43	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3100

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.20	0.00	0.00
Aluminum-Base Metal/Alloys	0.20	0.00	0.00
Other Metal/Alloys	0.20	0.00	0.00
Other Inorganic Materials	0.20	0.00	0.00
Cellulosics	0.50	0.00	0.00
Rubber	0.30	0.00	0.00
Plastics	1.00	0.00	0.00
Solidified, Inorganic Matrix	173.30	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	338.60	0.00	0.00
Soils	48.70	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	0.99		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.89E-04
Pu-238	8.92E-03
Pu-239	2.02E-01
Pu-240	4.85E-02
Pu-241	7.99E-01
Pu-242	4.14E-06
U-235	1.19E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-21-43

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
	0.0	0.0	0.0	0.0	0.0	0.0
Other/ Area T	2043.3	0.0	0.0	0.0	0.0	2043.3
Other/Pit	442.4	0.0	0.0	0.0	0.0	442.4
Other/Pit 4 Area T	40.2	0.0	0.0	0.0	0.0	40.2

As-Generated	Stored	2525.9	Projected	0.0	Total	2525.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
5'x5'x8' Box	447.1	0.0	0.0	0.0	0.0	447.1
Standard Waste Box	2086.6	0.0	0.0	0.0	0.0	2086.6

Final Form	Stored	2533.7	Projected	0.0	Total	2533.7

TWBIR ID: LA-TA-21-43

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Pipes and shafts filled with cement and wastewater treatment sludge from operations at TA-21.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAM002, LAM003
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-21-44

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Plutonium contaminated soil (non-mixed)			**Inventory Date**	9/30/2002
Local ID	TA-21-44	**Waste Type**	TRU	**Generator Site**	LA	**Final Waste Form**	Soils	**Waste Matrix Code**	S4100

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.80	0.00	0.00
Aluminum-Base Metal/Alloys	0.30	0.00	0.00
Other Metal/Alloys	0.40	0.00	0.00
Other Inorganic Materials	0.10	0.00	0.00
Cellulosics	1.70	0.00	0.00
Rubber	0.90	0.00	0.00
Plastics	2.50	0.00	0.00
Solidified, Inorganic Matrix	10.10	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	53.40	0.00	0.00
Soils	7.40	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	0.02		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	2.86E-02
Pu-239	8.38E-01
Pu-240	2.24E-03
Pu-241	6.84E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-21-44

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Crate	79.0	0.0	0.0	0.0	0.0	79.0
Crate/Pit	15.9	0.0	0.0	0.0	0.0	15.9
FRP Box	1.6	0.0	0.0	0.0	0.0	1.6

As-Generated	Stored	96.5	Projected	0.0	Total	96.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
5'x5'x8' Box	135.8	0.0	0.0	0.0	0.0	135.8
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	137.7	Projected	0.0	Total	137.7

TWBIR ID: LA-TA-21-44

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Soils contaminated with transuranic material resulting from TA21 decontamination and decommissioning, packaged in containers listed as crates.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAT008, LAT009
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-48-01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Combustible and noncombustible debris (non-mixed)			**Inventory Date**	9/30/2002
Local ID	TA-48-01	**Waste Type**	TRU	**Generator Site**	LA	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	15.40	0.00	0.00
Aluminum-Base Metal/Alloys	3.10	0.00	0.00
Other Metal/Alloys	2.60	0.00	0.00
Other Inorganic Materials	4.80	0.00	0.00
Cellulosics	5.40	0.00	0.00
Rubber	2.70	0.00	0.00
Plastics	8.30	0.00	0.00
Solidified, Inorganic Matrix	0.10	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.10	0.00	0.00
Soils	0.10	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.58E-02
Cm-244	1.05E+02
Np-237	2.48E-05
Pu-238	2.71E-02
Pu-239	1.90E-01
Pu-240	5.07E-01
Pu-241	2.83E+00
Pu-242	2.70E-05
U-233	3.39E-03
U-236	1.85E-07
U-238	2.36E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-48-01

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
CB	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.5	Projected	0.0	Total	0.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	0.6	Projected	0.0	Total	0.6

TWBIR ID: LA-TA-48-01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Combustible and noncombustible debris
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAT004, LAT005, LAT006
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-49-01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Metal scrap and incidental combustible debris (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-49-01	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	112.70	0.00	0.00
Aluminum-Base Metal/Alloys	0.10	0.00	0.00
Other Metal/Alloys	3.60	0.00	0.00
Other Inorganic Materials	0.40	0.00	0.00
Cellulosics	0.40	0.00	0.00
Rubber	0.20	0.00	0.00
Plastics	3.50	0.00	0.00
Solidified, Inorganic Matrix	0.30	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.10	0.00	0.00
Soils	0.20	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.08E-02
Cm-244	8.45E+01
Np-237	1.99E-05
Pu-238	2.17E-02
Pu-239	1.52E-01
Pu-240	4.07E-01
Pu-241	2.27E+00
Pu-242	2.17E-05
U-233	2.72E-03
U-236	1.49E-07
U-238	1.90E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-49-01

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Crate	57.0	0.0	0.0	0.0	0.0	57.0

As-Generated	Stored	57.0	Projected	0.0	Total	57.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
5'x5'x8' Box	96.2	0.0	0.0	0.0	0.0	96.2

Final Form	Stored	96.2	Projected	0.0	Total	96.2

TWBIR ID: LA-TA-49-01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Metal scrap and incidental combustibles generated in 1971 in TA-49 by group CNC11.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAM001, also containes containers not previously associated with an identified BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-50-10

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Vacuum filter cake (non-mixed)			**Inventory Date**	9/30/2002
Local ID	TA-50-10	**Waste Type**	TRU	**Generator Site**	LA	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3100

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.18	0.18	0.18
Aluminum-Base Metal/Alloys	0.18	0.18	0.18
Other Metal/Alloys	0.18	0.18	0.18
Other Inorganic Materials	0.18	0.18	0.18
Cellulosics	0.18	0.18	0.18
Rubber	0.18	0.18	0.18
Plastics	0.20	0.18	0.69
Solidified, Inorganic Matrix	723.21	133.36	905.54
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	85.91	0.18	672.77
Soils	11.61	0.18	89.86
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.17E-02
Pu-238	1.27E-02
Pu-239	4.42E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-50-10

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	1.0	0.0	0.0	0.0	0.0	1.0

As-Generated	Stored	1.0	Projected	0.0	Total	1.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0

Final Form	Stored	1.0	Projected	0.0	Total	1.0

TWBIR ID: LA-TA-50-10

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste is a dewatered sludge generated by the vacuum filtration of solids from treated aqueous waste slurry. The filter medium (diatomaceous earth) with the entrapped filtrate is then placed in drums with dry concrete absorbent.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAT003
Acceptance Comments	N/A
Final Form Comments	WMPs copied from LA-TA-50-17. BAC 4/2/03

TWBIR ID: LA-TA-50-11

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Combustible debris waste from area WM 66 (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-50-11	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5300

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	3.10	0.00	0.00
Aluminum-Base Metal/Alloys	0.80	0.00	0.00
Other Metal/Alloys	0.50	0.00	0.00
Other Inorganic Materials	3.60	0.00	0.00
Cellulosics	6.60	0.00	0.00
Rubber	3.00	0.00	0.00
Plastics	11.20	0.00	0.00
Solidified, Inorganic Matrix	0.10	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.10	0.00	0.00
Soils	0.10	0.00	0.00
Packaging Material, Steel	146.19		
Packaging Material, Plastic	12.57		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.55E-03
Pu-238	2.32E-03
Pu-239	5.44E-02
Pu-240	1.22E-02
Pu-241	1.85E-01
Pu-242	7.03E-07
U-238	2.13E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-50-11

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	2.9	0.0	0.0	0.0	0.0	2.9
Unknown	2.4	0.0	0.0	0.0	0.0	2.4

As-Generated	Stored	Projected	Total
	5.3	0.0	5.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.9	0.0	0.0	0.0	0.0	2.9
5'x5'x8' Box	5.7	0.0	0.0	0.0	0.0	5.7

Final Form	Stored	Projected	Total
	8.6	0.0	8.6

TWBIR ID: LA-TA-50-11

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Combustible waste generated from facility and equipment operations and maintenance. This waste includes paper, rags, plastic, rubber, wood-based HEPA filters, and plastic-based and cellulose-based waste generated at the facility. Plastic-based waste includes, but may not be limited to, tape, polyethylene and vinyl; gloves; plastic vials; polystyrene; Tygon tubing; polyvinyl chloride plastic; Teflon products; Plexiglas; and dry box gloves (unleaded neoprene base). Cellulose-based waste includes, but may not be limited to, rags, wood, paper, cardboard, laboratory coats and coveralls, booties and cotton gloves, and similar materials. The waste stream may also contain a smaller fraction of non-combustible solids (e.g., scrap metal, crucibles, metal lids, zippers, discarded tools) and a small fraction of homogenous solids, salts, leached solids, ash, hydroxide cakes, crucibles, impure oxides.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAM001, LAT001, LAT004, LAT005, LAT009
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-50-15

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Non-combustible and combustible debris waste from operations in the WCRRF and SRF (buildin	**Inventory Date**	9/30/2002
Local ID	TA-50-15	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	18.80	0.00	0.00
Aluminum-Base Metal/Alloys	2.60	0.00	0.00
Other Metal/Alloys	2.10	0.00	0.00
Other Inorganic Materials	93.80	0.00	0.00
Cellulosics	2.00	0.00	0.00
Rubber	1.10	0.00	0.00
Plastics	4.20	0.00	0.00
Solidified, Inorganic Matrix	0.20	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	1.00	0.00	0.00
Soils	0.20	0.00	0.00
Packaging Material, Steel	153.64		
Packaging Material, Plastic	0.69		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.33E-04
Co-60	7.11E-09
Cs-134	1.17E-09
Cs-137	7.51E-05
Eu-152	1.19E-09
Eu-154	9.39E-09
Eu-155	2.78E-06
Np-237	1.59E-14
Pu-238	1.41E-02
Pu-239	2.14E-03
Pu-240	4.82E-04
Pu-241	7.69E-03
Pu-242	3.52E-08
Ra-226	1.35E-08

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-50-15

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.5	0.0	0.0	0.0	0.0	2.5
Other	127.9	0.0	0.0	0.0	0.0	127.9
Standard Waste Box	15.1	0.0	0.0	0.0	0.0	15.1

As-Generated Stored 145.5 | Projected 0.0 | Total 145.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.5	0.0	0.0	0.0	0.0	2.5
5'x5'x8' Box	141.5	0.0	0.0	0.0	0.0	141.5
Standard Waste Box	15.1	0.0	0.0	0.0	0.0	15.1

Final Form Stored 159.1 | Projected 0.0 | Total 159.1

TWBIR ID: LA-TA-50-15

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Ru-106	5.06E-07
Sb-125	2.74E-06
U-234	2.29E-08
U-235	7.27E-08
U-236	9.66E-11
U-238	6.62E-12

Waste Stream Description	Non-combustible and combustible waste generated from facility and equipment operations and maintenance. This waste includes, but may not be limited to, small tools, small equipment, cans, motors, pumps, process equipment, gloveboxes, ventilation ductwork, HEPA filters, pipes, glass, graphite, slag and crucibles, salt, discarded lab ware, windows, and bottles. The waste stream may also contain a smaller fraction of combustible solids (e.g., paper, rags, plastic, rubber, leaded gloves) and a small fraction of homogeneous solids (e.g., leached solids, ash, hydroxide cakes, impure oxides).
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAM001, LAM009, LAT001, LAT004, LAT006, LAT009
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-50-17

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Cemented wastewater treatment sludge (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-50-17	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3100

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.18	0.18	0.18
Aluminum-Base Metal/Alloys	0.18	0.18	0.18
Other Metal/Alloys	0.18	0.18	0.18
Other Inorganic Materials	0.18	0.18	0.18
Cellulosics	0.18	0.18	0.18
Rubber	0.18	0.18	0.18
Plastics	0.20	0.18	0.69
Solidified, Inorganic Matrix	723.21	133.36	905.54
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	85.91	0.18	672.77
Soils	11.61	0.18	89.86
Packaging Material, Steel	130.64		
Packaging Material, Plastic	36.91		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.57E-02
Am-243	3.94E-13
Cs-137	4.01E-05
Np-237	3.53E-09
Pu-238	8.34E-03
Pu-239	8.43E-02
Pu-240	1.99E-06
Pu-241	4.69E-04
Pu-242	5.01E-10
U-232	6.20E-09
U-233	2.41E-06
U-234	1.63E-06
U-235	7.63E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-50-17

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	70.3	0.0	0.0	0.0	0.0	138.9
Drum / 85 gallon	1.3	0.0	0.0	0.0	0.0	1.3

As-Generated	Stored	Projected	Total
	71.6	68.6	140.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	70.3	0.0	0.0	0.0	0.0	138.9
Drum / 85-gallon	1.3	0.0	0.0	0.0	0.0	1.3

Final Form	Stored	Projected	Total
	71.6	68.6	140.2

TWBIR ID: LA-TA-50-17

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Cemented wastewater treatment sludge from room 60 pretreatment of TA-55 liquid waste. Solidified aqueous waste and cemented sludge. The sludge is a residue from treatment and filtration operations involving aqueous liquid radioactive waste from TA-55, Building PF4. This treatment produces a thin sludge (approximately 25 percent solids) that is alkaline and is compatible with Portland cement. Final cemented waste monoliths are produced by mixing the waste in 55-gallon steel drums containing empirically determined quantities of sludge, Portland cement, vermiculite, and sodium silicate.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAM002, LAM009, LAT002, LAT009
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-50-18

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Cemented caustic liquid waste (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-50-18	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3100

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.18	0.18	0.18
Aluminum-Base Metal/Alloys	0.18	0.18	0.18
Other Metal/Alloys	0.18	0.18	0.18
Other Inorganic Materials	0.18	0.18	0.18
Cellulosics	0.18	0.18	0.18
Rubber	0.18	0.18	0.18
Plastics	0.22	0.18	0.95
Solidified, Inorganic Matrix	137.94	0.18	641.95
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	655.13	0.18	716.43
Soils	87.76	0.18	95.68
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.14E-02
Pu-238	2.66E-03
Pu-239	3.02E-02
Pu-240	5.46E-08
Pu-241	5.41E-05
Pu-242	1.64E-11
U-233	2.09E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-50-18

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	92.4	0.0	0.0	0.0	0.0	92.4
83 Gallon Drum	2.5	0.0	0.0	0.0	0.0	2.5
Drum / 85-gallon	3.5	0.0	0.0	0.0	0.0	3.5

As-Generated	Stored	98.4	Projected	0.0	Total	98.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	92.4	0.0	0.0	0.0	0.0	92.4
83 Gallon Drum	2.5	0.0	0.0	0.0	0.0	2.5
Drum / 85-gallon	3.5	0.0	0.0	0.0	0.0	3.5

Final Form	Stored	98.4	Projected	0.0	Total	98.4

TWBIR ID: LA-TA-50-18

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Solidified (through cementation) caustic aqueous waste from TA-55. The sludge is a residue from numerous treatment and filtration operations involving aqueous liquid radioactive waste.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAM002, LAM009
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-50-19

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Vacuum filter cake (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-50-19	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3120

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.23	0.00	70.71
Aluminum-Base Metal/Alloys	0.19	0.00	12.15
Other Metal/Alloys	0.18	0.00	9.58
Other Inorganic Materials	0.21	0.00	29.52
Cellulosics	0.48	0.00	161.20
Rubber	0.34	0.00	77.05
Plastics	1.05	0.00	264.87
Solidified, Inorganic Matrix	173.85	0.00	690.66
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	339.60	0.00	690.98
Soils	48.86	0.00	92.29
Packaging Material, Steel	130.30		
Packaging Material, Plastic	36.82		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.02E-04
Cs-137	6.32E-13
Np-237	3.31E-10
Pu-238	9.94E-05
Pu-239	3.36E-04
Pu-240	3.90E-06
Pu-241	5.89E-05
Pu-242	2.24E-10
Ra-226	1.15E-12
U-234	2.24E-08
U-235	2.70E-09
U-238	1.29E-11

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-50-19

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	1158.6	0.0	0.0	0.0	0.0	1158.6
Drum / 83 gallon	0.9	0.0	0.0	0.0	0.0	0.9
Drum / 85 gallon	20.3	0.0	0.0	0.0	0.0	20.3

As-Generated — Stored: 1179.8 | Projected: 0.0 | Total: 1179.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1158.6	0.0	0.0	0.0	0.0	1158.6
Drum / 83-gallon	0.9	0.0	0.0	0.0	0.0	0.9
Drum / 85-gallon	20.3	0.0	0.0	0.0	0.0	20.3

Final Form — Stored: 1179.8 | Projected: 0.0 | Total: 1179.8

TWBIR ID: LA-TA-50-19

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste is a dewatered sludge generated by the vacuum filtration of solids from treated aqueous waste slurry. The filter medium (diatomaceous earth) with the entrapped filtrate is then placed in drums with dry concrete absorbent
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAM003, LAM006, LAM009, LAT003, LAT009, also containes containers not previously associated with an identified BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-50-20

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Plutonium contaminated soil (non-mixed)			**Inventory Date**	9/30/2002
Local ID	TA-50-20	**Waste Type**	TRU	**Generator Site**	LA	**Final Waste Form**	Soils	**Waste Matrix Code**	S4100

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1.15	1.15	1.15
Aluminum-Base Metal/Alloys	0.45	0.45	0.45
Other Metal/Alloys	0.50	0.50	0.50
Other Inorganic Materials	0.18	0.18	1.15
Cellulosics	2.43	2.43	2.43
Rubber	1.27	1.27	1.27
Plastics	3.56	3.56	3.56
Solidified, Inorganic Matrix	14.47	14.47	14.47
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	76.26	76.26	76.26
Soils	10.55	10.55	10.55
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.56E-02
Pu-239	1.56E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-50-20

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	0.6	Projected	0.0	Total	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	0.6	Projected	0.0	Total	0.6

TWBIR ID: LA-TA-50-20

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Soils contaminated with transuranic material as a result of facility and equipment operations and maintenance.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAT008
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-50-40

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Metal debris waste from TA-50 decontamination and decommissioning activities (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-50-40	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	13.30	0.00	0.00
Aluminum-Base Metal/Alloys	1.80	0.00	0.00
Other Metal/Alloys	1.50	0.00	0.00
Other Inorganic Materials	66.30	0.00	0.00
Cellulosics	1.40	0.00	0.00
Rubber	0.20	0.00	0.00
Plastics	0.20	0.00	0.00
Solidified, Inorganic Matrix	137.20	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	651.70	0.00	0.00
Soils	87.30	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	0.09		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	6.12E-05
Pu-239	4.34E-04
Pu-240	2.03E-04
Pu-241	6.48E-03
Pu-242	6.71E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-50-40

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Crate	0.6	0.0	0.0	0.0	0.0	0.6
Crate/Pit	15.3	0.0	0.0	0.0	0.0	15.3

As-Generated	Stored	15.9	Projected	0.0	Total	15.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
5'x5'x8' Box	22.6	0.0	0.0	0.0	0.0	22.6
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	24.5	Projected	0.0	Total	24.5

TWBIR ID: LA-TA-50-40

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste mostly consists of metals or metal equipment, such as motors, pumps, tools, and process equipment, either whole or sectioned, and lesser amounts of combustible components. The waste also includes mixed metal scrap and incidental combustible waste generated from size reduction of equipment from various TAs throughout LANL. In addition, it contains small volumes of combustibles generated during decommissioning, sectioning, and packaging.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAM001, LAM009, LAT004
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-50-41

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Metal debris waste from TA-50 decontamination and decommissioning activities (non-mixed)			**Inventory Date**	9/30/2002
Local ID	TA-50-41	**Waste Type**	TRU	**Generator Site**	LA	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	19.60	0.00	0.00
Aluminum-Base Metal/Alloys	2.70	0.00	0.00
Other Metal/Alloys	2.20	0.00	0.00
Other Inorganic Materials	97.80	0.00	0.00
Cellulosics	2.10	0.00	0.00
Rubber	0.30	0.00	0.00
Plastics	1.00	0.00	0.00
Solidified, Inorganic Matrix	173.80	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	339.50	0.00	0.00
Soils	48.90	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	3.85E-05
Pu-239	1.31E-03
Pu-240	3.08E-04
Pu-241	4.64E-03
Pu-242	1.77E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-50-41

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
FRP Box	34.3	0.0	0.0	0.0	0.0	34.3

As-Generated	Stored	34.3	Projected	0.0	Total	34.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	35.9	0.0	0.0	0.0	0.0	35.9

Final Form	Stored	35.9	Projected	0.0	Total	35.9

TWBIR ID: LA-TA-50-41

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste mostly consists of metals or metal equipment, such as motors, pumps, tools, and process equipment, either whole or sectioned, and lesser amounts of combustible components. The waste also includes metal scrap and incidental combustible waste generated from size reduction of equipment from various TAs throughout LANL. In addition, it contains small volumes of combustibles generated during decommissioning, sectioning, and packaging.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAT009
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-55-19

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Combustible debris waste (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-55-19	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5300

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D035, D038, D039, D040, F001, F002, F003, F005, P120

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	7.72	0.00	179.77
Aluminum-Base Metal/Alloys	0.38	0.00	13.46
Other Metal/Alloys	1.12	0.00	75.07
Other Inorganic Materials	2.01	0.00	285.61
Cellulosics	30.45	0.00	316.02
Rubber	6.20	0.00	495.85
Plastics	42.63	0.00	251.22
Solidified, Inorganic Matrix	0.77	0.00	109.48
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.65	0.00	126.03
Soils	0.60	0.00	98.73
Packaging Material, Steel	130.95		
Packaging Material, Plastic	36.95		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.10E-03
Am-243	1.88E-12
Np-237	3.32E-09
Pu-238	6.16E-04
Pu-239	8.14E-03
Pu-240	2.31E-03
Pu-241	4.93E-02
Pu-242	7.03E-06
Pu-244	8.30E-12
U-233	7.72E-08
U-234	4.76E-07
U-235	1.95E-08
U-236	2.02E-09
U-238	8.47E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-19

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	875.9	0.0	0.0	0.0	0.0	1974.1
55 Gallon Drum/Pit	45.6	0.0	0.0	0.0	0.0	45.6
Drum / 85-gallon	3.9	0.0	0.0	0.0	0.0	3.9
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated	Stored	Projected	Total
	927.2	1098.2	2025.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	875.9	0.0	0.0	0.0	0.0	1974.1
55 Gallon Drum/Pit	45.6	0.0	0.0	0.0	0.0	45.6
Drum / 85-gallon	3.9	0.0	0.0	0.0	0.0	3.9
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	Projected	Total
	927.2	1098.2	2025.4

TWBIR ID: LA-TA-55-19

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Combustible waste generated from facility and equipment operations and maintenance. This waste includes paper, rags, plastic, rubber, wood-based HEPA filters, and plastic-based and cellulose-based waste generated at the facility. Plastic-based waste includes, but may not be limited to, tape, polyethylene and vinyl; gloves; plastic vials; polystyrene; Tygon tubing; polyvinyl chloride plastic; Teflon products; Plexiglas; and dry box gloves (unleaded neoprene base). Cellulose-based waste includes, but may not be limited to, rags, wood, paper, cardboard, laboratory coats and coveralls, booties and cotton gloves, and similar materials. The waste stream may also contain a smaller fraction of non-combustible solids (e.g., scrap metal, crucibles, metal lids, zippers, discarded tools) and a small fraction of homogenous solids, salts, leached solids, ash, hydroxide cakes, crucibles, impure oxides.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAM001, LAM004, LAM005, LAM009, LAT001, LAT004, LAT005, LAT009, also containes containers not previously associated with an identified BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-55-20

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Combustible debris waste (non-mixed)			**Inventory Date**	9/30/2002
Local ID	TA-55-20	**Waste Type**	TRU	**Generator Site**	LA	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5300

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	6.37	0.18	28.19
Aluminum-Base Metal/Alloys	0.18	0.18	0.18
Other Metal/Alloys	0.38	0.18	2.65
Other Inorganic Materials	2.75	0.18	25.39
Cellulosics	18.97	0.18	132.35
Rubber	0.89	0.18	3.99
Plastics	78.42	5.33	206.83
Solidified, Inorganic Matrix	0.18	0.18	0.18
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.18	0.18	0.18
Soils	0.87	0.18	8.53
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.19E-02
Np-237	2.72E-05
Pu-238	3.33E-02
Pu-239	1.01E+00
Pu-240	2.45E-01
Pu-241	3.94E+00
Pu-242	1.82E-05
U-234	1.50E-04
U-235	5.71E-06
U-236	8.11E-07
U-238	6.46E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-20

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	7.5	0.0	0.0	0.0	0.0	302.6

As-Generated	Stored	7.5	Projected	295.2	Total	302.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	7.5	0.0	0.0	0.0	0.0	302.6

Final Form	Stored	7.5	Projected	295.2	Total	302.6

TWBIR ID: LA-TA-55-20

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Combustible waste generated from facility and equipment operations and maintenance. This waste includes paper, rags, plastic, rubber, wood-based HEPA filters, and plastic-based and cellulose-based waste generated at the facility. Plastic-based waste includes, but may not be limited to, tape, polyethylene and vinyl; gloves; plastic vials; polystyrene; Tygon tubing; polyvinyl chloride plastic; Teflon products; Plexiglas; and dry box gloves (unleaded neoprene base). Cellulose-based waste includes, but may not be limited to, rags, wood, paper, cardboard, laboratory coats and coveralls, booties and cotton gloves, and similar materials. The waste stream may also contain a smaller fraction of non-combustible solids (e.g., scrap metal, crucibles, metal lids, zippers, discarded tools) and a small fraction of homogenous solids, salts, leached solids, ash, hydroxide cakes, crucibles, impure oxides.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAM004, LAT004, LAT005
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-55-21

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Metal debris waste (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-55-21	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5110

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D035, D038, D039, D040, F001, F002, F003, F005, P120

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	200.50	0.18	728.59
Aluminum-Base Metal/Alloys	0.18	0.18	0.18
Other Metal/Alloys	7.18	0.18	214.76
Other Inorganic Materials	0.85	0.18	46.14
Cellulosics	1.00	0.18	47.44
Rubber	0.32	0.18	10.22
Plastics	5.87	0.18	44.93
Solidified, Inorganic Matrix	0.86	0.18	96.77
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.18	0.18	0.18
Soils	0.56	0.18	29.78
Packaging Material, Steel	140.66		
Packaging Material, Plastic	21.96		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.44E-03
Am-243	4.74E-07
Cm-244	3.63E-05
Np-237	8.00E-09
Pu-238	2.40E-03
Pu-239	4.57E-02
Pu-240	1.10E-02
Pu-241	1.87E-01
Pu-242	2.14E-05
Pu-244	1.84E-11
U-235	5.47E-08
U-238	7.30E-10

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-21

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	57.4	0.0	0.0	0.0	0.0	57.4
Standard Waste Box	41.6	0.0	0.0	0.0	0.0	41.6

As-Generated	Stored	Projected	Total
	99.0	0.0	99.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	57.4	0.0	0.0	0.0	0.0	57.4
Standard Waste Box	41.6	0.0	0.0	0.0	0.0	41.6

Final Form	Stored	Projected	Total
	99.0	0.0	99.0

TWBIR ID: LA-TA-55-21

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Noncombustible waste including small tools, small equipment, cans, motors, pumps, process equipment, gloveboxes, ventilation ductwork, and pipes. May also contain some glass, ceramic, porcelain, etc. as well as some small fraction of combustible waste (e.g., paper, rubber, plastics).
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAM005, LAT004, LAT005, also containes containers not previously associated with an identified BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-55-22

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Metal debris waste (non-mixed)			**Inventory Date**	9/30/2002
Local ID	TA-55-22	**Waste Type**	TRU	**Generator Site**	LA	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5110

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	165.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.20	0.00	0.00
Other Metal/Alloys	4.50	0.00	0.00
Other Inorganic Materials	0.40	0.00	0.00
Cellulosics	0.40	0.00	0.00
Rubber	0.80	0.00	0.00
Plastics	3.00	0.00	0.00
Solidified, Inorganic Matrix	0.10	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.70	0.00	0.00
Soils	0.10	0.00	0.00
Packaging Material, Steel	137.13		
Packaging Material, Plastic	27.46		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.07E-01
H-3	2.96E+01
Np-237	1.59E-05
Pu-238	9.47E-02
Pu-239	1.12E+00
Pu-240	2.64E-01
Pu-241	4.05E+00
Pu-242	2.02E-05
Pu-244	5.46E-12

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-22

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	10.4	0.0	0.0	0.0	0.0	10.4
Other	0.7	0.0	0.0	0.0	0.0	0.7
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated	Stored	13.0	Projected	0.0	Total	13.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	10.4	0.0	0.0	0.0	0.0	10.4
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8

Final Form	Stored	14.2	Projected	0.0	Total	14.2

TWBIR ID: LA-TA-55-22

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Noncombustible waste including small tools, small equipment, cans, motors, pumps, process equipment, gloveboxes, ventilation ductwork, and pipes. May also contain some glass, ceramic, porcelain, etc. as well as some small fraction of combustible waste (e.g., paper, rubber, plastics).
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAM005, LAT005
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-55-23

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Glass debris waste from PF-4 (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-55-23	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5120

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D035, D038, D039, D040, F001, F002, F003, F005, P120

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	4.52	0.18	73.92
Aluminum-Base Metal/Alloys	0.71	0.18	13.49
Other Metal/Alloys	0.62	0.18	11.16
Other Inorganic Materials	93.79	0.18	191.00
Cellulosics	1.29	0.18	14.51
Rubber	0.44	0.18	4.15
Plastics	7.66	0.18	110.58
Solidified, Inorganic Matrix	1.55	0.18	23.25
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	1.52	0.18	33.60
Soils	2.44	0.18	13.90
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.15E-01
Pu-238	8.88E-02
Pu-239	8.77E-01
Pu-240	2.17E-01
Pu-241	4.31E+00
Pu-242	1.36E-03
Pu-244	1.54E-09
U-235	7.13E-06
U-238	7.78E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-23

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	12.5	0.0	0.0	0.0	0.0	12.5

As-Generated	Stored	12.5	Projected	0.0	Total	12.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	12.5	0.0	0.0	0.0	0.0	12.5

Final Form	Stored	12.5	Projected	0.0	Total	12.5

TWBIR ID: LA-TA-55-23

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Glass waste generated from facility and equipment operations and maintenance. This waste includes, but is not limited to, broken glass discarded labware, windows, and bottles. A small fraction of combustible waste, such as plastics (mainly packaging), may also be present in this waste stream.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAM005, LAT005, also containes containers not previously associated with an identified BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-55-24

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Glass debris waste from PF-4 (non-mixed)			**Inventory Date**	9/30/2002
Local ID	TA-55-24	**Waste Type**	TRU	**Generator Site**	LA	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5120

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.21	0.18	0.35
Aluminum-Base Metal/Alloys	0.18	0.18	0.18
Other Metal/Alloys	0.18	0.18	0.18
Other Inorganic Materials	106.29	0.18	185.72
Cellulosics	0.18	0.18	0.18
Rubber	0.18	0.18	0.18
Plastics	3.34	0.18	8.35
Solidified, Inorganic Matrix	0.18	0.18	0.18
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.18	0.18	0.18
Soils	0.18	0.18	0.18
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.29E-01
Pu-238	1.35E-01
Pu-239	4.59E+00
Pu-240	1.07E+00
Pu-241	1.62E+01
Pu-242	6.17E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-24

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	1.2	0.0	0.0	0.0	0.0	1.2

As-Generated	Stored	1.2	Projected	0.0	Total	1.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.2	0.0	0.0	0.0	0.0	1.2

Final Form	Stored	1.2	Projected	0.0	Total	1.2

TWBIR ID: LA-TA-55-24

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Glass waste generated from facility and equipment operations and maintenance. This waste includes, but is not limited to, broken glass discarded labware, windows, and bottles. A small fraction of combustible waste, such as plastics (mainly packaging), may also be present in this waste stream.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAT005, also containes containers not previously associated with an identified BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-55-25

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	HEPA filter debris (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-55-25	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D019, D022, D035, D039, D040, F001, F002, F003, F005, P120

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	14.79	14.79	14.79
Aluminum-Base Metal/Alloys	0.18	0.18	0.18
Other Metal/Alloys	0.18	0.18	0.18
Other Inorganic Materials	0.18	0.18	14.80
Cellulosics	4.09	4.09	4.09
Rubber	0.18	0.18	0.18
Plastics	3.57	3.57	3.57
Solidified, Inorganic Matrix	0.18	0.18	0.18
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.18	0.18	0.18
Soils	0.18	0.18	0.18
Packaging Material, Steel	150.20		
Packaging Material, Plastic	7.12		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.21E-01
Pu-238	4.32E-02
Pu-239	1.26E+00
Pu-240	2.95E-01
Pu-241	4.56E+00
Pu-242	1.34E-04
U-235	1.42E-06
U-238	1.41E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-25

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	3.7	0.0	0.0	0.0	0.0	3.7
Standard Waste Box	18.9	0.0	0.0	0.0	0.0	18.9

As-Generated	Stored	22.6	Projected	0.0	Total	22.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	3.7	0.0	0.0	0.0	0.0	3.7
Standard Waste Box	18.9	0.0	0.0	0.0	0.0	18.9

Final Form	Stored	22.6	Projected	0.0	Total	22.6

TWBIR ID: LA-TA-55-25

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	HEPA filters generated from facility and equipment operations and Maintenance.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAT005, also containes containers not previously associated with an identified BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-55-28

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Leaded glove debris (mixed			**Inventory Date**	9/30/2002
Local ID	TA-55-28	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Lead/Cadmium Metal	**Waste Matrix Code**	S5311

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D035, D038, D039, D040, F001, F002, F003, F005, P120

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	38.24	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	335.43	0.00	0.00
Other Inorganic Materials	95.47	0.00	0.00
Cellulosics	12.89	0.00	0.00
Rubber	4.30	0.00	0.00
Plastics	20.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.50E-01
Pu-238	1.46E-01
Pu-239	2.33E+00
Pu-240	5.54E-01
Pu-241	9.40E+00
Pu-242	2.82E-03
Pu-244	1.84E-09
U-235	1.63E-06
U-238	2.56E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-28

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	3.7	0.0	0.0	0.0	0.0	3.7

As-Generated	Stored	3.7	Projected	0.0	Total	3.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	3.7	0.0	0.0	0.0	0.0	3.7

Final Form	Stored	3.7	Projected	0.0	Total	3.7

TWBIR ID: LA-TA-55-28

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Leaded gloves generated from facility and equipment operations and maintenance.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAM005, LAT005, also containes containers not previously associated with an identified BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-55-30

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Non-combustible and combustible debris waste (mixed)	**Inventory Date**	9/30/2002
Local ID	TA-55-30	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D035, D038, D039, D040, F001, F002, F003, F005, P120

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	20.40	0.00	0.00
Aluminum-Base Metal/Alloys	4.20	0.00	0.00
Other Metal/Alloys	3.40	0.00	0.00
Other Inorganic Materials	6.30	0.00	0.00
Cellulosics	7.10	0.00	0.00
Rubber	3.60	0.00	0.00
Plastics	11.10	0.00	0.00
Solidified, Inorganic Matrix	0.20	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.20	0.00	0.00
Soils	0.20	0.00	0.00
Packaging Material, Steel	131.70		
Packaging Material, Plastic	35.05		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.79E-03
Am-243	2.78E-07
Cm-244	1.63E-08
Np-237	1.42E-11
Pu-238	2.26E-03
Pu-239	4.31E-02
Pu-240	1.05E-02
Pu-241	1.76E-01
Pu-242	9.91E-06
Pu-244	1.18E-11
U-233	1.14E-07
U-234	9.34E-08
U-235	3.50E-09
U-236	3.67E-10

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-30

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1029.2	0.0	0.0	0.0	0.0	2017.6
Drum / 85-gallon	27.0	0.0	0.0	0.0	0.0	27.0
FRP Box	14.6	0.0	0.0	0.0	0.0	14.6
Other	38.9	0.0	0.0	0.0	0.0	38.9
Standard Waste Box	30.2	0.0	0.0	0.0	0.0	30.2

As-Generated	Stored	1140.0	Projected	988.4	Total	2128.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1088.0	0.0	0.0	0.0	0.0	2076.5
85 Gallon Drum	27.0	0.0	0.0	0.0	0.0	27.0
Standard Waste Box	113.4	0.0	0.0	0.0	0.0	113.4

Final Form	Stored	1228.5	Projected	988.4	Total	2216.9

TWBIR ID: LA-TA-55-30

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
U-238	3.65E-08

Waste Stream Description	Non-combustible and combustible waste generated from facility and equipment operations and maintenance. This waste includes, but may not be limited to, small tools, small equipment, cans, motors, pumps, process equipment, gloveboxes, ventilation ductwork, metal-based HEPA filters, pipes, glass, graphite, slag and crucibles, salt, discarded lab ware, windows, and bottles. The waste stream may also contain a smaller fraction of combustible solids (e.g., paper, rags, plastic, rubber, leaded gloves) and a small fraction of homogeneous solids (e.g., leached solids, ash, hydroxide cakes, impure oxides).
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAM001, LAM004, LAM005, LAM006, LAM009, LAT001, LAT004, LAT005, LAT006, LAT009, also containes containers not previously associated with an identified BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-55-32

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Homogeneous inorganic solids (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-55-32	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3100

EPA Codes

As-Generated
D007, D008, D009, D011, D022, D035, D040, F001, F002, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.18	0.18	0.18
Aluminum-Base Metal/Alloys	0.18	0.18	0.18
Other Metal/Alloys	0.18	0.18	0.18
Other Inorganic Materials	0.18	0.18	0.18
Cellulosics	0.18	0.18	0.18
Rubber	0.18	0.18	0.18
Plastics	0.20	0.18	0.69
Solidified, Inorganic Matrix	723.21	133.36	905.54
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	85.91	0.18	672.77
Soils	11.61	0.18	89.86
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.32E-01
Pu-238	8.67E+00
Pu-239	2.37E+00
Pu-240	7.36E-01
Pu-241	1.45E+01
Pu-242	1.10E-03
Pu-244	1.36E-09
U-234	2.15E-04
U-235	7.55E-06
U-236	9.09E-07
U-238	6.23E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-32

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	4.8	0.0	0.0	0.0	0.0	4.8

As-Generated	Stored	4.8	Projected	0.0	Total	4.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	4.8	0.0	0.0	0.0	0.0	4.8

Final Form	Stored	4.8	Projected	0.0	Total	4.8

TWBIR ID: LA-TA-55-32

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Solidified inorganic process solids generated from facility and equipment operations and maintenance. This waste consists of large chunks of filter cakes and salts.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAM005, LAM006, LAT005, LAT006, also containes containers not previously associated with an identified BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-55-33

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Absorbed organics from all wings of PF4 (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-55-33	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3200

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D019, D039, F002

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.18	0.18	0.18
Aluminum-Base Metal/Alloys	0.18	0.18	0.18
Other Metal/Alloys	0.18	0.18	0.18
Other Inorganic Materials	0.18	0.18	0.18
Cellulosics	0.18	0.18	0.18
Rubber	0.18	0.18	0.18
Plastics	0.18	0.18	0.18
Solidified, Inorganic Matrix	165.82	165.82	165.82
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	828.39	828.39	828.39
Soils	110.61	110.61	110.61
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.90E-02
Pu-238	1.61E-02
Pu-239	2.24E-01
Pu-240	7.20E-02
Pu-241	1.47E+00
Pu-242	1.12E-05
U-235	1.09E-06
U-238	9.14E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-33

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	6.7	0.0	0.0	0.0	0.0	6.7

As-Generated	Stored	6.7	Projected	0.0	Total	6.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	6.7	0.0	0.0	0.0	0.0	6.7

Final Form	Stored	6.7	Projected	0.0	Total	6.7

TWBIR ID: LA-TA-55-33

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Solidified Organics (absorbed organics on vermiculite) from all wings of PF4. Organic liquids (solvents and oils) generated from facility and equipment operations and maintenance and absorbed on vermiculite. Hazardous materials such as methylene chloride and carbon tetrachloride may be present but PCB's are NOT expected.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAT004, LAT005, LAT006, LAT009, also containes containers not previously associated with an identified BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-55-34

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Uncemented inorganics (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-55-34	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Salt	**Waste Matrix Code**	S3100

EPA Codes

As-Generated
D005, D007, D008, D009

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	2320.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	130.67		
Packaging Material, Plastic	36.92		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.31E-02
Pu-238	3.61E-02
Pu-239	8.62E-01
Pu-240	2.21E-01
Pu-241	3.79E+00
Pu-242	8.67E-05
Pu-244	9.04E-11
U-233	7.50E-06
U-234	1.07E-05
U-235	4.90E-07
U-236	1.50E-08
U-238	2.18E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-34

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	49.7	0.0	0.0	0.0	0.0	152.7
Drum / 83 gallon	1.3	0.0	0.0	0.0	0.0	1.3

As-Generated	Stored	Projected	Total
	51.0	103.0	154.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	49.7	0.0	0.0	0.0	0.0	152.7
Drum / 85-gallon	1.3	0.0	0.0	0.0	0.0	1.3

Final Form	Stored	Projected	Total
	51.0	103.0	154.0

TWBIR ID: LA-TA-55-34

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Uncemented inorganics from all wings of PF4 including nitrate salts generated from TA-55 nitrate operations
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAM005, LAT005, LAT009
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-55-38

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Cemented inorganics (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-55-38	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3100

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D011, D019, D021, D022, D035, D039, D040, F001, F002, F003, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.20	0.00	0.00
Aluminum-Base Metal/Alloys	0.20	0.00	0.00
Other Metal/Alloys	0.20	0.00	0.00
Other Inorganic Materials	0.20	0.00	0.00
Cellulosics	0.20	0.00	0.00
Rubber	0.20	0.00	0.00
Plastics	0.20	0.00	0.00
Solidified, Inorganic Matrix	720.90	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	85.60	0.00	0.00
Soils	11.60	0.00	0.00
Packaging Material, Steel	126.12		
Packaging Material, Plastic	35.63		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.68E-01
Am-243	3.92E-06
Np-237	3.51E-10
Pu-238	3.85E-03
Pu-239	6.02E-02
Pu-240	1.63E-02
Pu-241	3.22E-01
Pu-242	2.04E-05
Pu-244	2.11E-11
Th-232	1.60E-09
U-233	5.68E-07
U-234	2.00E-06
U-235	8.95E-08
U-236	2.67E-09

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-38

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	401.2	0.0	0.0	0.0	0.0	572.8
Drum / 85 gallon	83.4	0.0	0.0	0.0	0.0	83.4
Other	0.3	0.0	0.0	0.0	0.0	0.3

As-Generated	Stored	Projected	Total
	484.9	171.6	656.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	401.2	0.0	0.0	0.0	0.0	572.8
85 Gallon Drum	83.4	0.0	0.0	0.0	0.0	83.4
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	Projected	Total
	486.5	171.6	658.1

TWBIR ID: LA-TA-55-38

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
U-238	3.02E-06

Waste Stream Description	Solidified inorganic process solids generated from facility and equipment operations and maintenance. This waste includes process leached solids, ash, filter cakes, salts, metal oxides, fines, evaporator bottoms, and sample residues (received from the CMR building) stabilized in Portland or gypsum cement.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAM005, LAM006,LAM009,LAT004, LAT005, LAT006, LAT009, also containes containers not previously associated with an identified BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-55-39

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Pyrochemical salts (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-55-39	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Salt	**Waste Matrix Code**	S3100

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	2320.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.35E+00
Pu-238	7.46E-01
Pu-239	2.61E+01
Pu-240	5.92E+00
Pu-241	8.84E+01
Pu-242	3.49E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-39

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.9	0.0	0.0	0.0	0.0	2.9

As-Generated	Stored	2.9	Projected	0.0	Total	2.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.9	0.0	0.0	0.0	0.0	2.9

Final Form	Stored	2.9	Projected	0.0	Total	2.9

TWBIR ID: LA-TA-55-39

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Pyrochemical salt waste consisting of used chloride salts from pyrochemical processes such as electrorefining, molten salt extraction, salt stripping, fluoride reduction, and direct oxide reduction. A small fraction of combustible waste, such as plastics (mainly packaging), may also be present in this waste stream.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAM005, LAT005
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-55-41

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Cemented organics (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-55-41	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3200

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D011, D018, D019, D021, D022, D035, D038, D039, D040, F002, F003, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.18	0.18	0.18
Aluminum-Base Metal/Alloys	0.18	0.18	0.18
Other Metal/Alloys	0.18	0.18	0.18
Other Inorganic Materials	0.18	0.18	0.18
Cellulosics	0.18	0.18	0.18
Rubber	0.18	0.18	0.18
Plastics	0.18	0.18	0.18
Solidified, Inorganic Matrix	165.82	165.82	165.82
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	828.39	828.39	828.39
Soils	110.61	110.61	110.61
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.29E+00
Bk-249	1.40E-05
Cf-249	9.12E-07
Pu-238	1.06E-01
Pu-239	2.16E+00
Pu-240	5.20E-01
Pu-241	8.55E+00
Pu-242	1.73E-03
Pu-244	2.21E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-41

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	8.3	1.7	4.2	4.2	3.7	22.0
Drum / 85-gallon	4.2	0.0	0.0	0.0	0.0	4.2

As-Generated	Stored	12.5	Projected	13.7	Total	26.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	8.3	0.0	0.0	0.0	0.0	22.0
Drum / 85-gallon	6.4	0.0	0.0	0.0	0.0	6.4

Final Form	Stored	14.8	Projected	13.7	Total	28.5

TWBIR ID: LA-TA-55-41

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Solidified organic process solids and up to six liters of emulsified solvents and oils generated from facility and equipment operations and maintenance. This waste consists of process leached solids, filter cakes, or evaporator bottoms stabilized in Portland or gypsum cement.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAM006, also containes containers not previously associated with an identified BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-55-43

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Combustible/noncombustible debris containing Pu-238 (non-mixed)			**Inventory Date**	9/30/2002
Local ID	TA-55-43	**Waste Type**	TRU	**Generator Site**	LA	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	92.64	0.18	524.46
Aluminum-Base Metal/Alloys	0.51	0.18	20.27
Other Metal/Alloys	0.21	0.18	2.96
Other Inorganic Materials	0.34	0.18	7.90
Cellulosics	20.17	0.18	151.12
Rubber	0.62	0.18	10.34
Plastics	25.30	0.18	91.03
Solidified, Inorganic Matrix	0.67	0.18	45.10
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.18	0.18	0.18
Soils	0.18	0.18	0.18
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.20E-04
Pu-238	4.53E+00
Pu-239	2.19E-03
Pu-240	7.72E-04
Pu-241	4.17E-02
Pu-242	5.15E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-43

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	64.9	0.0	0.0	0.0	0.0	64.9

As-Generated	Stored	64.9	Projected	0.0	Total	64.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	64.9	0.0	0.0	0.0	0.0	64.9

Final Form	Stored	64.9	Projected	0.0	Total	64.9

TWBIR ID: LA-TA-55-43

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Combustible/noncombustible debris including paper, rags, plastic, rubber, and plastic-based and cellulose-based waste generated during 238Pu activities. Plastic-based waste includes, but may not be limited to: tape, polyethylene and vinyl; gloves; plastic vials, polystyrene; tygon tubing; polyvinyl chloride plastic; Teflon products; plexiglass; and dry box gloves (unleaded neoprene base). Cellulosebased waste includes, but may not be limited to: rags, wood, paper, and cardboard; laboratory coats and overalls; booties and cotton gloves, and similar materials. The waste may also contain HEPA filters, noncombustible glass and metallic debris. Some of this waste was packaged in small metal cans before being placed in 55 Gallon drums.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAM005, LAT004, LAT005, also containes containers not previously associated with an identified BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-55-44

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Combustible/noncombustible debris containing Pu-238 (mixed)	**Inventory Date**	9/30/2002
Local ID	TA-55-44	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
D005, D006, D007, D008, D009, D011, D022, D035, D040, F001, F002, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	12.10	0.00	0.00
Aluminum-Base Metal/Alloys	1.30	0.00	0.00
Other Metal/Alloys	1.10	0.00	0.00
Other Inorganic Materials	8.30	0.00	0.00
Cellulosics	9.60	0.00	0.00
Rubber	4.40	0.00	0.00
Plastics	17.70	0.00	0.00
Solidified, Inorganic Matrix	2.70	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	1.70	0.00	0.00
Soils	2.10	0.00	0.00
Packaging Material, Steel	142.45		
Packaging Material, Plastic	36.50		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.94E-03
Pu-238	3.37E+00
Pu-239	1.14E-02
Pu-240	3.19E-03
Pu-241	7.16E-02
Pu-242	9.94E-07
Pu-244	2.10E-13
U-234	7.72E-08
U-235	2.94E-09
U-236	2.23E-10
U-238	6.83E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-44

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 30 gallon	19.9	0.0	0.0	0.0	0.0	19.9
Drum / 55 gallon	187.4	0.0	0.0	0.0	0.0	187.4
Drum / 80 gallon	1.2	0.0	0.0	0.0	0.0	1.2
Drum / 85 gallon	3.5	0.0	0.0	0.0	0.0	3.5
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated Stored 213.9 | Projected 0.0 | Total 213.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	187.4	0.0	0.0	0.0	0.0	187.4
55 Gallon Drum/Overpack 30	36.6	0.0	0.0	0.0	0.0	36.6
80-Gallon Drum	1.2	0.0	0.0	0.0	0.0	1.2
85 Gallon Drum	3.5	0.0	0.0	0.0	0.0	3.5
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

Final Form Stored 230.7 | Projected 0.0 | Total 230.7

TWBIR ID: LA-TA-55-44

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Combustible/noncombustible debris: heat source fabrication, 238Pu from SRS. Combustible/noncombustible debris including paper, rags, plastic, rubber, and plastic-based and cellulose-based waste generated during 238Pu activities. Plastic-based waste includes, but may not be limited to: tape, polyethylene and vinyl; gloves; plastic vials, polystyrene; tygon tubing; polyvinyl chloride plastic; Teflon products; plexiglass; and dry box gloves (unleaded neoprene base). Cellulosebased waste includes, but may not be limited to: rags, wood, paper, and cardboard; laboratory coats and overalls; booties and cotton gloves, and similar materials. The waste may also contain noncombustible glass and metallic debris. Some of this waste was packaged in small metal cans before being placed in 55 Gallon drums. This waste stream may contain lead items, or items from process status code R8, PPD, TDC (which may be mixed waste items).
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAM001, LAM004, LAM005, LAM006, LAM009, LAT001, LAT004, LAT005, LAT006, LAT009, also containes containers not previously associated with an identified BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-55-48

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Oil and vermiculite waste containing 238Pu (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-55-48	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3200

EPA Codes

As-Generated
D005, D006, D007, D008, D009, D011

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.18	0.18	0.18
Aluminum-Base Metal/Alloys	0.18	0.18	0.18
Other Metal/Alloys	0.18	0.18	0.18
Other Inorganic Materials	0.18	0.18	0.18
Cellulosics	0.18	0.18	0.18
Rubber	0.18	0.18	0.18
Plastics	0.18	0.18	0.18
Solidified, Inorganic Matrix	165.82	165.82	165.82
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	828.39	828.39	828.39
Soils	110.61	110.61	110.61
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.28E+02
Pu-238	9.68E+01
Pu-239	5.45E+02
Pu-240	2.05E+02
Pu-241	4.82E+03
Pu-242	4.02E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-48

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	2.1	0.0	0.0	0.0	0.0	15.8

As-Generated	Stored	2.1	Projected	13.7	Total	15.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	15.8

Final Form	Stored	2.1	Projected	13.7	Total	15.8

TWBIR ID: LA-TA-55-48

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Oil/vermiculite waste resulting from heat source fabrication using SRS-supplied Pu238.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAT004, LAT009, also containes containers not previously associated with an identified BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-55-49

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Cemented inorganics containing 238Pu (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-55-49	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3100

EPA Codes

As-Generated
D005, D006, D007, D008, D009, D011

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.20	0.00	0.00
Aluminum-Base Metal/Alloys	0.20	0.00	0.00
Other Metal/Alloys	0.20	0.00	0.00
Other Inorganic Materials	0.20	0.00	0.00
Cellulosics	0.20	0.00	0.00
Rubber	0.20	0.00	0.00
Plastics	0.20	0.00	0.00
Solidified, Inorganic Matrix	674.40	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	80.10	0.00	0.00
Soils	10.80	0.00	0.00
Packaging Material, Steel	142.23		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.10E-01
Pu-238	2.19E+02
Pu-239	1.69E+00
Pu-240	4.78E-01
Pu-241	1.05E+01
Pu-242	1.05E-04
U-234	1.12E-05
U-235	3.44E-06
U-236	1.36E-08
U-238	2.28E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-49

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	15.6	0.0	0.0	0.0	0.0	15.6
Drum / 30-gallon / Pit	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated	Stored	Projected	Total
	17.1	0.0	17.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	15.6	0.0	0.0	0.0	0.0	15.6
55 Gallon Drum/Overpack 30	2.7	0.0	0.0	0.0	0.0	2.7

Final Form	Stored	Projected	Total
	18.3	0.0	18.3

TWBIR ID: LA-TA-55-49

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Solidified inorganic process solids from plutonium processing operations to fabricate heat sources using 238Pu supplied by Savannah River Site. This waste includes process leached solids, salts, and metal oxides.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAM006, LAM009, LAT004, LAT005, LAT006, LAT009, also containes containers not previously associated with an identified BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-55-53

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Pyrochemical salts from PF-4 (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-55-53	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Salt	**Waste Matrix Code**	S3100

EPA Codes

As-Generated
D005, D006, D007, D008, D009, D011, D019, D021, D022, D039, F002, F003

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.40	0.18	0.90
Aluminum-Base Metal/Alloys	0.18	0.18	0.18
Other Metal/Alloys	0.21	0.18	0.32
Other Inorganic Materials	3.72	0.18	8.48
Cellulosics	0.18	0.18	0.18
Rubber	0.18	0.18	0.18
Plastics	0.35	0.18	1.01
Solidified, Inorganic Matrix	127.04	0.18	412.44
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	162.88	0.18	300.47
Soils	20.17	0.18	46.38
Packaging Material, Steel	128.04		
Packaging Material, Plastic	36.24		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.73E-01
Pu-238	3.77E-02
Pu-239	1.22E+00
Pu-240	2.87E-01
Pu-241	4.42E+00
Pu-242	4.89E-05
Pu-244	4.19E-11
U-234	5.06E-08
U-235	1.78E-09
U-236	2.14E-10
U-238	1.46E-11

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-53

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	60.9	8.3	20.8	20.8	18.7	129.6
Drum / 85-gallon	10.6	0.0	0.0	0.0	0.0	10.6

As-Generated	Stored	Projected	Total
	71.6	68.6	140.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	60.9	0.0	0.0	0.0	0.0	129.6
Drum / 85-gallon	10.6	0.0	0.0	0.0	0.0	10.6

Final Form	Stored	Projected	Total
	71.6	68.6	140.2

TWBIR ID: LA-TA-55-53

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Pyrochemical salt waste (homogeneous) consisting of used chloride salts from pyrochemical processes such as electrorefining, molten salt extraction, salt stripping, fluoride reduction, and direct oxide reduction. A small fraction of combustible waste, such as plastics (mainly packaging), may also be present in this waste stream.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAM005, LAM006, LAM009, LAT005, LAT009
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-55-56

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Noncombustible and combustible debris waste (non-mixed)			**Inventory Date**	9/30/2002
Local ID	TA-55-56	**Waste Type**	TRU	**Generator Site**	LA	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	240.80	0.00	0.00
Aluminum-Base Metal/Alloys	0.20	0.00	0.00
Other Metal/Alloys	0.90	0.00	0.00
Other Inorganic Materials	9.30	0.00	0.00
Cellulosics	1.10	0.00	0.00
Rubber	0.20	0.00	0.00
Plastics	6.80	0.00	0.00
Solidified, Inorganic Matrix	0.20	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.20	0.00	0.00
Soils	0.20	0.00	0.00
Packaging Material, Steel	131.09		
Packaging Material, Plastic	36.86		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.62E-02
Np-237	5.35E-07
Pu-238	3.06E-01
Pu-239	4.04E-01
Pu-240	1.02E-01
Pu-241	1.75E+00
Pu-242	9.11E-06
U-234	1.04E-07
U-235	6.43E-09
U-236	1.28E-09
U-238	1.86E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-56

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	33.7	52.4	131.0	131.0	117.9	466.1
Other	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated	Stored	Projected	Total
	35.2	432.4	467.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	33.7	0.0	0.0	0.0	0.0	466.1
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	Projected	Total
	35.6	432.4	468.0

TWBIR ID: LA-TA-55-56

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Noncombustible and combustible waste generated from facility and equipment operations and maintenance. This waste includes, but may not be limited to, small tools, small equipment, cans, motors, pumps, process equipment, gloveboxes, ventilation ductwork, metal-based HEPA filters, pipes, glass, graphite, slag and crucibles, salt, discarded lab ware, windows, and bottles. The waste stream may also contain a smaller fraction of combustible solids (e.g., paper, rags, plastic, rubber, leaded gloves) and a small fraction of homogeneous solids (e.g. leached solids, ash, hydroxide cakes, impure oxides).
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAM004, LAM005, LAM009, LAT004, LAT005, LAT009, also containes containers not previously associated with an identified BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-55-60

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Metal debris waste from all wings of PF4 (non-mixed)			**Inventory Date**	9/30/2002
Local ID	TA-55-60	**Waste Type**	TRU	**Generator Site**	LA	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	143.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.10	0.00	0.00
Other Metal/Alloys	4.60	0.00	0.00
Other Inorganic Materials	0.50	0.00	0.00
Cellulosics	0.50	0.00	0.00
Rubber	0.20	0.00	0.00
Plastics	4.40	0.00	0.00
Solidified, Inorganic Matrix	0.40	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.10	0.00	0.00
Soils	0.30	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	0.01		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.80E-05
Np-237	1.10E-07
Pu-238	3.68E-04
Pu-239	3.41E-04
Pu-240	1.22E-04
Pu-241	6.79E-03
Pu-242	1.22E-05
Pu-244	1.16E-11
U-238	1.05E-11

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-60

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Crate	62.4	0.0	0.0	0.0	0.0	62.4
FRP Box	1.1	0.0	0.0	0.0	0.0	1.1
Other	95.4	0.0	0.0	0.0	0.0	95.4

As-Generated	Stored	158.9	Projected	0.0	Total	158.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
5'x5'x8' Box	209.4	0.0	0.0	0.0	0.0	209.4
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	211.3	Projected	0.0	Total	211.3

TWBIR ID: LA-TA-55-60

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Noncombustible scrap items generated from facility and equipment decontamination and decommissioning. This waste includes small tools, cans, small equipment items, motors, pumps, and process equipment. A small fraction of combustible waste, such as plastics (mainly packaging) may also be present in this waste stream.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Former WS IDs: LAM005, LAM009, LAT005, LAT009
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-55-61

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Metal debris waste from all wings of PF-4 (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-55-61	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	155.50	0.00	0.00
Aluminum-Base Metal/Alloys	0.10	0.00	0.00
Other Metal/Alloys	5.00	0.00	0.00
Other Inorganic Materials	0.50	0.00	0.00
Cellulosics	0.60	0.00	0.00
Rubber	0.30	0.00	0.00
Plastics	4.80	0.00	0.00
Solidified, Inorganic Matrix	0.40	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.10	0.00	0.00
Soils	0.30	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	0.27		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.70E-05
Pu-238	1.56E-03
Pu-239	6.14E-04
Pu-240	2.10E-04
Pu-241	5.60E-03
Pu-242	4.29E-07
Pu-244	3.64E-13

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-61

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Crate	120.1	0.0	0.0	0.0	0.0	120.1
FRP Box	15.0	0.0	0.0	0.0	0.0	15.0
Other	49.9	0.0	0.0	0.0	0.0	49.9

As-Generated — **Stored** 185.1 — **Projected** 0.0 — **Total** 185.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
5'x5'x8' Box	175.5	0.0	0.0	0.0	0.0	175.5
Standard Waste Box	51.0	0.0	0.0	0.0	0.0	51.0

Final Form — **Stored** 226.5 — **Projected** 0.0 — **Total** 226.5

TWBIR ID: LA-TA-55-61

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Metal waste generated from facility and equipment decontamination and decommissioning activities.. This waste includes small tools, cans, small equipment items, motors, pumps, and process equipment. This waste also includes gloveboxes and associated ducting, equipment, and construction debris associated with the removal of gloveboxes. A small fraction of combustible waste, such as plastics (mainly packaging), may also be present in this waste stream.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAM005, LAM009
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-55-62

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Combustible/noncombustible debris waste from all wings of PF-4 (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-55-62	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	29.90	0.00	0.00
Aluminum-Base Metal/Alloys	0.50	0.00	0.00
Other Metal/Alloys	0.40	0.00	0.00
Other Inorganic Materials	2.60	0.00	0.00
Cellulosics	8.60	0.00	0.00
Rubber	1.50	0.00	0.00
Plastics	12.60	0.00	0.00
Solidified, Inorganic Matrix	1.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.60	0.00	0.00
Soils	0.70	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	4.59E-05
Pu-239	3.17E-04
Pu-240	1.53E-04
Pu-241	4.86E-03
Pu-242	5.03E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-62

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Crate	41.6	0.0	0.0	0.0	0.0	41.6

As-Generated	Stored	41.6	Projected	0.0	Total	41.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
5'x5'x8' Box	73.6	0.0	0.0	0.0	0.0	73.6

Final Form	Stored	73.6	Projected	0.0	Total	73.6

TWBIR ID: LA-TA-55-62

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Combustible waste generated from facility and equipment decontamination and decommissioning activities. Combustible waste includes paper, rags, plastic, rubber, and plastic-based and cellulose-based waste. Noncombustible waste includes items such as small tools, cans, small equipment items, and broken glass.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAT009
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LA-TA-55-63

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	HEPA filter debris from all wings of PF-4 (mixed)			**Inventory Date**	9/30/2002
Local ID	TA-55-63	**Waste Type**	MTRU	**Generator Site**	LA	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	8.30	0.00	0.00
Aluminum-Base Metal/Alloys	0.10	0.00	0.00
Other Metal/Alloys	0.10	0.00	0.00
Other Inorganic Materials	0.10	0.00	0.00
Cellulosics	2.30	0.00	0.00
Rubber	0.10	0.00	0.00
Plastics	2.00	0.00	0.00
Solidified, Inorganic Matrix	0.10	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.10	0.00	0.00
Soils	0.10	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	3.86E-04
Pu-239	1.32E-02
Pu-240	3.08E-03
Pu-241	4.64E-02
Pu-242	1.77E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-63

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Crate	3.2	0.0	0.0	0.0	0.0	3.2

As-Generated	Stored	Projected	Total
	3.2	0.0	3.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
5'x5'x8' Box	5.7	0.0	0.0	0.0	0.0	5.7

Final Form	Stored	Projected	Total
	5.7	0.0	5.7

TWBIR ID: LA-TA-55-63

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	HEPA filters generated from facility and equipment operations and maintenance
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	assumed mixed but codes unknown
Management Comments	Former WS IDs: LAT009
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: LL-M001

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	LL-W028	**Handling**	CH	**Stream Name**	R&D Glovebox Waste (Form 1)			**Inventory Date**	9/30/2002
Local ID	Form 1 Mixed	**Waste Type**	MTRU	**Generator Site**	LL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
D006, D008, D009, D040

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	5.00	0.00	365.00
Aluminum-Base Metal/Alloys	5.00	0.00	365.00
Other Metal/Alloys	2.00	0.00	365.00
Other Inorganic Materials	1.00	0.00	200.00
Cellulosics	100.00	0.00	365.00
Rubber	5.00	0.00	200.00
Plastics	100.00	5.00	365.00
Solidified, Inorganic Matrix	5.00	0.00	100.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	5.00	0.00	100.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

LL 116A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.59E+00
Cm-244	3.03E+00
Pu-238	2.46E+00
Pu-239	2.06E+00
Pu-240	9.26E-01
Pu-241	2.83E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : LL-M001

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	23.9	0.8	2.1	1.9	0.0	28.7

As-Generated	Stored	23.9	Projected	4.8	Total	28.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	23.9	0.0	0.0	0.0	0.0	28.7

Final Form	Stored	23.9	Projected	4.8	Total	28.7

TWBIR ID: LL-M001

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste consists mostly of untreated dry solids such as tissues, paper, assorted plastics, glassware, ceramics, and metals. Portland cement or Aquaset is used to solidify small amounts of water-based liquids; Envirostone or Petroset is used to solidify small amounts of solvents and oil-based liquids. The composition varies considerably, but it is predominantly organics (> 90% by weight). The waste does contain small amounts of RCRA listed hazardous materials. Typical hazardous materials are leaded gloves or materials contaminated with solvents.
Waste Stream Source Description	Form 1 Mixed: The waste consists of glovebox bagout waste, laboratory trash and some contaminated equipment. The waste contains small amounts of RCRA materials such as solvents or lead shielding. The waste may occasionally include small quantities of solidified liquids, but these are usually segregated as waste form 2.
Current Container Comments	N/A
EPA Comments	Regulated contaminants reported are based on generator reports of laboratory experimental processes. This waste stream is included in LLNL's PSTP report of waste stream number LL-W018. That waste stream also included waste packages possibly, but not known to be contaminated with RCRA hazardous materials. More process knowledge and analysis will be done to further characterize those packages. Note that in this report (WTWBIR & MWIR), LL-W018 consists only of metal scrap waste, plus small amounts of laboratory trash, mostly in boxes, that is known to be mixed waste.
Management Comments	Some waste may need to be repackaged in order to meet transportation (TRAMPAC) requirements for gas generation. I have not included in this waste stream any waste containing hazardous constituents that the state of California would regulate (more stringently than RCRA) if the waste were not also radioactive. California now has authority to regulate only RCRA mixed waste.
Acceptance Comments	N/A
Final Form Comments	Repackaging may be required due to approximately 50% of waste containers not meeting thermal power requirements of TRAMPAC; however I don't know how much repackaging will actually be required and how many extra drums would be generated thereby. Therefore, my estimates in 8.2.15 are the same as in 8.2.14. Date of inventory and number of containers projected are the same as storage container estimates.

TWBIR ID: LL-T001

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	LL-W029	**Handling**	CH	**Stream Name**	Solidified Waste (Form 2)			**Inventory Date**	9/30/2002
Local ID	Form 2 Non-mixed	**Waste Type**	TRU	**Generator Site**	LL	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3120

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	30.00	0.00	100.00
Aluminum-Base Metal/Alloys	5.00	0.00	50.00
Other Metal/Alloys	1.00	0.00	20.00
Other Inorganic Materials	1.00	0.00	20.00
Cellulosics	10.00	0.00	100.00
Rubber	1.00	0.00	20.00
Plastics	20.00	5.00	100.00
Solidified, Inorganic Matrix	100.00	50.00	365.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	100.00	50.00	365.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

LL 111A
LL 113A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.09E-01
Pu-239	1.40E+00
Pu-240	6.32E-01
Pu-241	1.95E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : LL-T001

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55-gallon	13.7	32.3	75.5	67.4	0.0	188.9

As-Generated	Stored	13.7	Projected	175.1	Total	188.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	13.7	0.0	0.0	0.0	0.0	188.9

Final Form	Stored	13.7	Projected	175.1	Total	188.9

TWBIR ID: LL-T001

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	50 to 90% of this waste matrix consists of liquids solidified in 1 to 5 gallon plastic containers using Portland cement or Aquaset for the water based liquids and Envirostone or Petroset for the oil-based liquids. The remainder consists of glovebox waste similar to form 1 waste. The waste does not contain any RCRA-listed hazardous materials.
Waste Stream Source Description	Form 2 Non-mixed: More than 50 volume percent of this waste consists of solidified water-based or oil-based liquids or solidified fine particles. The remaining waste consists of glovebox bagout waste, laboratory trash and some contaminated equipment.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Some waste may need to be repackaged in order to meet transportation (TRAMPAC) requirements for gas generation. This waste stream may contain waste containing hazardous constituents that the state of California would regulate (more stringently than RCRA) if the waste were not also radioactive. California now has authority to regulate only RCRA mixed waste.
Acceptance Comments	N/A
Final Form Comments	Date of inventory and number of containers projected are the same as storage container estimates.

TWBIR ID: LL-T002

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	LL-W030	**Handling**	CH	**Stream Name**	R&D Glovebox Waste (Form 1)			**Inventory Date**	9/30/2002
Local ID	Form 1 Non-mixed	**Waste Type**	TRU	**Generator Site**	LL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	6.82	0.00	0.00
Aluminum-Base Metal/Alloys	5.00	0.00	0.00
Other Metal/Alloys	2.00	0.00	0.00
Other Inorganic Materials	1.00	0.00	0.00
Cellulosics	99.70	0.00	0.00
Rubber	5.00	0.00	0.00
Plastics	99.70	0.00	0.00
Solidified, Inorganic Matrix	5.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	5.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	163.07		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

LL 116A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.79E+00
Pu-238	3.20E-01
Pu-239	2.49E+00
Pu-240	1.03E+00
Pu-241	3.16E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : LL-T002

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / Misc.	7.7	0.0	0.0	0.0	0.0	7.7
Box / Misc. 2	4.6	0.0	0.0	0.0	0.0	4.6
Drum / 55 gallon	74.0	174.4	406.8	363.2	0.0	1018.4

As-Generated	Stored	86.3	Projected	944.3	Total	1030.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	74.0	0.0	0.0	0.0	0.0	1018.4
5x5x8 Box	5.7	0.0	0.0	0.0	0.0	5.7
Standard Waste Box	9.4	0.0	0.0	0.0	0.0	9.4

Final Form	Stored	89.2	Projected	944.3	Total	1033.5

TWBIR ID: LL-T002

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste consists mostly of untreated dry solids such as tissues, paper, assorted plastics, glassware, ceramics, and metals. Portland cement or Aquaset is used to solidify small amounts of water-based liquids; Envirostone or Petroset is used to solidify small amounts of solvents and oil-based liquids. The composition varies considerably, but it is predominantly organics (> 90% by weight). The waste does not contain any RCRA listed hazardous materials.
Waste Stream Source Description	Form 1 Non-Mixed: The waste consists of glovebox bagout waste, laboratory trash and some contaminated equipment. The waste may occasionally include small quantities of solidified liquids, but these are usually segregated as waste form 2.
Current Container Comments	This container previously in LL-W031. Recategorized as a result of AK project.
EPA Comments	N/A
Management Comments	Some waste may need to be repackaged in order to meet transportation (TRAMPAC) requirements for gas generation. This waste stream may contain waste containing hazardous constituents that the state of California would regulate (more stringently than RCRA) if the waste were not also radioactive. California now has authority to regulate only RCRA mixed waste.
Acceptance Comments	N/A
Final Form Comments	Date of inventory and number of containers projected are the same as storage container estimates.

TWBIR ID: LL-T003

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	LL-W031	**Handling**	CH	**Stream Name**	Combined metal scrap & incidental combust (Form 3)			**Inventory Date**	9/30/2002
Local ID	Form 3 Non-mixed	**Waste Type**	TRU	**Generator Site**	LL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	20.00	0.00	30.00
Aluminum-Base Metal/Alloys	3.00	0.00	30.00
Other Metal/Alloys	1.00	0.00	30.00
Other Inorganic Materials	1.00	0.00	5.00
Cellulosics	1.00	0.00	5.00
Rubber	1.00	0.00	5.00
Plastics	1.00	0.00	10.00
Solidified, Inorganic Matrix	2.50	0.00	5.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	2.50	0.00	5.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	151.18		
Packaging Material, Plastic	5.58		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

LL 125A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.35E-01
Pu-238	7.02E-02
Pu-239	9.92E-02
Pu-240	8.02E-02
Pu-241	2.45E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : LL-T003

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	4.6	10.6	25.1	22.5	0.0	62.8
Standard Waste Box /	13.3	76.0	190.0	171.0	0.0	450.3

As-Generated	Stored	Projected	Total
	17.9	495.2	513.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	4.6	0.0	0.0	0.0	0.0	62.8
Standard Waste Box	13.3	0.0	0.0	0.0	0.0	450.3

Final Form	Stored	Projected	Total
	17.9	495.2	513.1

TWBIR ID: LL-T003

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste consists mostly of metal scrap such as decommissioned gloveboxes, hoods and other large equipment as well as laboratory trash. Typically it will contain metal components, glassware, ceramics, plastics, paper, and wood. It will be mostly inorganic materials, but can vary widely. This waste does not contain RCRA listed hazardous materials.
Waste Stream Source Description	Form 3 non-mixed: This waste consists of contaminated equipment and laboratory trash too big to fit in 55 gallon drums. This waste does not contain RCRA hazardous materials.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Some waste may need to be repackaged in order to meet transportation (TRAMPAC) requirements for gas generation. This waste stream may contain waste containing hazardous constituents that the state of California would regulate (more stringently than RCRA) if the waste were not also radioactive. California now has authority to regulate only RCRA mixed waste.
Acceptance Comments	N/A
Final Form Comments	Average radionuclide content of final containers (SWBs) will depend on content of existing boxes to be repackaged and existing SWBs plus content of SWBs to be generated. Date of inventory and number of containers projected are the same as storage container estimates.

TWBIR ID: LL-T004

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	LL-W032	**Handling**	CH	**Stream Name**	Pyrochemical salt waste (Form 4)			**Inventory Date**	9/30/2002
Local ID	Form 4 Non-mixed	**Waste Type**	TRU	**Generator Site**	LL	**Final Waste Form**	Salt	**Waste Matrix Code**	S3140

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	20.00	0.00	100.00
Aluminum-Base Metal/Alloys	5.00	0.00	80.00
Other Metal/Alloys	2.00	0.00	50.00
Other Inorganic Materials	290.00	100.00	365.00
Cellulosics	2.00	0.00	50.00
Rubber	1.00	0.00	20.00
Plastics	20.00	5.00	100.00
Solidified, Inorganic Matrix	1.00	0.00	10.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	1.00	0.00	10.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

LL 124A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.81E+00
Pu-238	4.74E-01
Pu-239	2.06E+00
Pu-240	1.66E+00
Pu-241	5.10E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : LL-T004

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55-gallon	1.2	2.8	6.3	5.6	0.0	16.0

As-Generated	Stored	1.2	Projected	14.8	Total	16.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.2	0.0	0.0	0.0	0.0	16.0

Final Form	Stored	1.2	Projected	14.8	Total	16.0

TWBIR ID: LL-T004

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste consists primarily of used chloride and fluoride salts from pyrochemical processes such as electrorefining, molten salt extraction, and direct oxide reduction. There may also be up to 20% heterogeneous organic glovebox bagout waste packaged with the salt waste. This waste does not contain any RCRA listed hazardous materials.
Waste Stream Source Description	Form 4 non-mixed: The waste consists of used chloride and fluoride salts from pyrochemical processes such as electrorefining, molten salt extraction, and direct oxide reduction.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Some waste may need to be repackaged in order to meet transportation (TRAMPAC) requirements for gas generation. This waste stream may contain waste containing hazardous constituents that the state of California would regulate (more stringently than RCRA) if the waste were not also radioactive. California now has authority to regulate only RCRA mixed waste.
Acceptance Comments	N/A
Final Form Comments	Date of inventory and number of containers projected are the same as storage container estimates.

TWBIR ID: LL-T005

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	LL-W033	**Handling**	CH	**Stream Name**	HEPA filters (Form 5)			**Inventory Date**	9/30/2002
Local ID	Form 5 Non-mixed	**Waste Type**	TRU	**Generator Site**	LL	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	97.02	0.00	0.00
Aluminum-Base Metal/Alloys	19.90	0.00	0.00
Other Metal/Alloys	9.60	0.00	0.00
Other Inorganic Materials	19.90	0.00	0.00
Cellulosics	63.10	0.00	0.00
Rubber	9.60	0.00	0.00
Plastics	19.90	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	153.90		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.90E-01
Cm-244	3.98E+00
Pu-238	1.60E-01
Pu-239	2.20E-01
Pu-240	1.80E-01
Pu-241	5.42E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : LL-T005

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / Rogers Chem. #1	14.4	0.0	0.0	0.0	0.0	14.4
Box / Rogers Chem. #2	8.6	0.0	0.0	0.0	0.0	8.6
Box / Rogers Chem. #3	8.7	0.0	0.0	0.0	0.0	8.7
Capital Indus. Box #1	4.4	0.0	0.0	0.0	0.0	4.4
Capital Indus. Box #2 /	86.9	0.0	0.0	0.0	0.0	86.9
Capital Indus. Box #3	5.7	0.0	0.0	0.0	0.0	5.7
Capital Indus. Box #4	6.4	0.0	0.0	0.0	0.0	6.4
Drum / 55 gallon	1.7	3.7	8.4	7.5	0.0	21.2
Standard Waste Box /	5.7	76.0	190.0	171.0	0.0	442.7

As-Generated — **Stored** 142.5 — **Projected** 456.6 — **Total** 599.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.7	0.0	0.0	0.0	0.0	21.2
5X5X8 Box	113.2	0.0	0.0	0.0	0.0	113.2
Standard Waste Box	54.8	0.0	0.0	0.0	0.0	489.5

Final Form — **Stored** 169.7 — **Projected** 454.3 — **Total** 623.9

TWBIR ID: LL-T005

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste matrix is mostly wood framed HEPA filters although some small metal cased HEPA filters are also included. Some of the filters contain asbestos.
Waste Stream Source Description	Form 5 non-mixed: HEPA filters
Current Container Comments	Contains nuclides submitted in MWIR/BIR, Rev. 1 data call in 1994, copy enclosed.
EPA Comments	Generator knowledge about old HEPA filters is largely lacking; however some of these filters are known to contain asbestos.
Management Comments	Some waste may need to be repackaged in order to meet transportation (TRAMPAC) requirements for gas generation. This waste stream may contain waste containing hazardous constituents that the state of California would regulate (more stringently than RCRA) if the waste were not also radioactive. California now has authority to regulate only RCRA mixed waste. Also, HEPA filters, if found to fail fine particles requirements, would require immobilization of fine particles.
Acceptance Comments	N/A
Final Form Comments	Date of inventory and number of containers projected are the same as Standard Waste Box storage estimates. However, I also project an extra 8 SWBs from repackaging the non-standard box. 8 Standard Waste Boxes will be required to repack the existing waste from the non-standard boxes and should be repackaged in the year 2000.

TWBIR ID: LL-W018

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	LL-W018	**Handling**	CH	**Stream Name**	Combined metal scrap & incidental combust.(Form 3)			**Inventory Date**	9/30/2002
Local ID	Form 3 Mixed	**Waste Type**	MTRU	**Generator Site**	LL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
D008, D040, F002

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	150.00	0.00	800.00
Aluminum-Base Metal/Alloys	20.00	0.00	800.00
Other Metal/Alloys	10.00	0.00	800.00
Other Inorganic Materials	5.00	0.00	800.00
Cellulosics	5.00	0.00	500.00
Rubber	2.00	0.00	100.00
Plastics	20.00	5.00	200.00
Solidified, Inorganic Matrix	2.00	0.00	300.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	2.00	0.00	300.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	151.73		
Packaging Material, Plastic	4.73		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

LL 125A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.04E-02
Pu-239	8.78E-03
Pu-240	2.03E-02
Pu-241	5.94E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : LL-W018

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2
Standard Waste Box /	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated	Stored	2.1	Projected	0.0	Total	2.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	2.1	Projected	0.0	Total	2.1

TWBIR ID: LL-W018

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is potentially radioactive inorganic scrap metal generated from on-site laboratory research and maintenance, including laboratory clean up. Includes lead bricks and metal shavings. These materials may contain transuranic activity (80.6 lbs. in 55-gal. drum) Waste is used and discarded metal parts generated from on-site research and development activities.
Waste Stream Source Description	Form 3 mixed: This waste consists of contaminated equipment and laboratory trash too big to fit in 55 gallon drums. This waste does contain RCRA hazardous materials. Inorganic scrap metal generated from on-site laboratory research and maintenance, including laboratory clean up.
Current Container Comments	N/A
EPA Comments	Regulated contaminants reported are based on generator reports of laboratory experimental processes. This waste stream is included in LLNL's PSTP report of waste stream number LL-W018. That waste stream also included waste packages possibly, but not known to be contaminated with RCRA hazardous materials. More process knowledge and analysis will be done to further characterize those packages. Note that in this report (WTWBIR & MWIR), LL-W018 consists only of metal scrap waste, mostly in boxes, that is known to be mixed waste.
Management Comments	Some waste may need to be repackaged in order to meet transportation (TRAMPAC) requirements for gas generation. I have not included in this waste stream any waste containing hazardous constituents that the state of California would regulate (more stringently than RCRA) if the waste were not also radioactive. California now has authority to regulate only RCRA mixed waste.
Acceptance Comments	N/A
Final Form Comments	Date of inventory and number of containers projected are the same as storage container estimates.

TWBIR ID: LL-W019

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	LL-W019	**Handling**	CH	**Stream Name**	Solidified Waste (Form 2)			**Inventory Date**	9/30/2002
Local ID	Form 2 Mixed	**Waste Type**	MTRU	**Generator Site**	LL	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3220

EPA Codes

As-Generated
D040, F002

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	30.00	0.00	100.00
Aluminum-Base Metal/Alloys	5.00	0.00	50.00
Other Metal/Alloys	1.00	0.00	20.00
Other Inorganic Materials	1.00	0.00	20.00
Cellulosics	10.00	0.00	100.00
Rubber	1.00	0.00	20.00
Plastics	20.00	5.00	100.00
Solidified, Inorganic Matrix	100.00	50.00	365.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	100.00	50.00	365.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

LL 111A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.24E+00
Pu-239	7.89E-01
Pu-240	6.63E-01
Pu-241	2.01E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : LL-W019

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55-gallon	8.1	0.8	2.1	1.9	0.0	12.9

As-Generated	Stored	8.1	Projected	4.8	Total	12.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	8.1	0.0	0.0	0.0	0.0	12.9

Final Form	Stored	8.1	Projected	4.8	Total	12.9

TWBIR ID: LL-W019

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is radioactive halogenated solvents generated from on-site cleaning of tanks and equipment and operating of research laboratories and machining shops. Waste consists of TCE and TCA and may contain transuranic activity (0.6 lbs. in a 55-gallon drum). Waste is generated from the on-site cleaning of tanks and equipment used in changing R & D activities.
Waste Stream Source Description	Form 2 Mixed: More than 50 volume percent of this waste consists of solidified water-based or oil-based liquids or solidified fine particles. The remaining waste consists of glovebox bagout waste, laboratory trash and some contaminated equipment.
Current Container Comments	N/A
EPA Comments	Regulated contaminants reported are based on generator reports of laboratory experimental processes. This waste stream is included in LLNL's PSTP report of waste stream number LL-W018. That waste stream also included waste packages possibly, but not known to be contaminated with RCRA hazardous materials. More process knowledge and analysis will be done to further characterize those packages. Note that in this report (WTWBIR & MWIR), LL-W018 consists only of metal scrap waste, plus small amounts of laboratory trash, mostly in boxes, that is known to be mixed waste.
Management Comments	Some waste may need to be repackaged in order to meet transportation (TRAMPAC) requirements for gas generation. I have not included in this waste stream any waste containing hazardous constituents that the state of California would regulate (more stringently than RCRA) if the waste were not also radioactive. California now has authority to regulate only RCRA mixed waste.
Acceptance Comments	N/A
Final Form Comments	Date of inventory and number of containers projected are the same as storage container estimates.

TWBIR ID: LL-W034

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Mixed Waste HEPA Filters			**Inventory Date**	9/30/2002
Local ID	Form 5 mixed	**Waste Type**	MTRU	**Generator Site**	LL	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
D006, D008, F001, F002

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	191.52	0.00	0.00
Aluminum-Base Metal/Alloys	18.10	0.00	0.00
Other Metal/Alloys	8.80	0.00	0.00
Other Inorganic Materials	18.10	0.00	0.00
Cellulosics	57.60	0.00	0.00
Rubber	8.80	0.00	0.00
Plastics	18.10	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	153.97		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Yes
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

LL119

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.50E-01
Cm-244	3.62E+00
Pu-238	1.50E-01
Pu-239	2.00E-01
Pu-240	1.60E-01
Pu-241	4.94E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : LL-W034

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / Rogers Chem. #4	5.6	0.0	0.0	0.0	0.0	5.6
Box / Rogers Chem. #5	8.0	0.0	0.0	0.0	0.0	8.0
Capital Indus. Box #2	4.6	0.0	0.0	0.0	0.0	4.6
Drum / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	18.4	0.0	18.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
5X5X8 Box	11.3	0.0	0.0	0.0	0.0	11.3
Standard Waste Box	9.4	0.0	0.0	0.0	0.0	9.4

Final Form	Stored	Projected	Total
	21.0	0.0	21.0

TWBIR ID: LL-W034

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste matrix is mostly wood framed HEPA filters although some small metal cased HEPA filters are also included. Some of the filters contain asbestos. Filters may also be contaminated with lead, cadmium, trichloroethylene, freon, and/or carbon tetrachloride.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Some waste may need to be repackaged in order to meet transportation (TRAMPAC) requirements for gas generation. This waste stream may contain waste containing hazardous constituents that the state of California would regulate (more stringently than RCRA) if the waste were not also radioactive. California now has authority to regulate only RCRA mixed waste. Also, HEPA filters, if found to fail fine particles requirements, would require immobilization of fine particles.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: MC-W001

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	MC-W001	**Handling**	CH	**Stream Name**	USAMC TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	MC	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	190.24	0.00	0.00
Aluminum-Base Metal/Alloys	0.18	0.00	0.00
Other Metal/Alloys	6.07	0.00	0.00
Other Inorganic Materials	0.66	0.00	0.00
Cellulosics	0.73	0.00	0.00
Rubber	0.31	0.00	0.00
Plastics	5.86	0.00	0.00
Solidified, Inorganic Matrix	0.52	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.18	0.00	0.00
Soils	0.37	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.21E-02
Pu-239	2.43E-02
Pu-241	1.11E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : MC-W001

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.5	0.0	0.0	0.0	0.0	2.5

As-Generated	Stored	Projected	Total
	2.5	0.0	2.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.5	0.0	0.0	0.0	0.0	2.5

Final Form	Stored	Projected	Total
	2.5	0.0	2.5

TWBIR ID: MC-W001

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Army sources
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: MU-W002

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	MU-W002	**Handling**	CH	**Stream Name**	Heterogeneous Debris			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	MU	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
D006, D011

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	11.25	0.00	20.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	25.00	0.00	60.00
Cellulosics	2.50	0.00	10.00
Rubber	25.00	0.00	50.00
Plastics	37.50	0.00	80.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.50E+00
Np-237	3.23E-04
Pu-239	3.62E-02
U-238	1.65E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : MU-W002

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55-gallon	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated	Stored	1.5	Projected	0.0	Total	1.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.5	0.0	0.0	0.0	0.0	1.5

Final Form	Stored	1.5	Projected	0.0	Total	1.5

TWBIR ID: MU-W002

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	MTRU Heterogeneous Debris. The radioactive wastes generated on the project will come first from normal operations and second from the D&D of the facility at the end of the project. Radioactive wastes from normal operation will consist of the following: o HEPA filters from the glove box o HEPA filters from offgas and room filtration systems o paper wipes from periodic cleaning of the glove boxes o used sample bottles o damaged glove box gloves o used crucibles, tubes, and wires
Waste Stream Source Description	The radioactive wastes generated on the project will come first from normal operations and second from the D&D of the facility at the end of the project. Radioactive wastes from normal operation will consist of the following: o HEPA filters from the glove box o HEPA filters from offgas and room filtration systems o paper wipes from periodic cleaning of the glove boxes o used sample bottles o damaged glove box gloves o used crucibles, tubes, and wires $ $ Mixed TRU Waste
Current Container Comments	N/A
EPA Comments	Waste has not yet been characterized
Management Comments	MURR, costar tower 5th level in containment.
Acceptance Comments	□□GENERAAREA: MURR Alpha Room□□GENOPERATI: The TRUMP-S test program uses three glove boxes located in the Alpha Lab: the argon box, the air box, and the ICP box. The three boxes are equipped with various pieces of test equipment. The argon box is used to conduct the electrochemical experiments that are the objective if the program. Actinide metals are unpacked in this box, subdivided, and repackaged. Chloride salts of the actinides are prepared here. Samples of the materials used in the experiments are obtained in the argon box for analysis. The argon box is frequently cleaned using paper wipes, which are packaged in small waste cans for disposal. The air box is used to prepare aqueous samples for analysis in the ICP box. These samples are later prepared for recovery of the actinides by evaporating the water. Tantalum materials that have been used in the argon box are cleaned in the air box for later reuse in the electrochemical tests. The air box is also frequently cleaned using paper wipes and these are likewise placed in waste cans for disposal. The ICP box is used to analyze the chemical composition of various aqueous samples. The nebulizer of the ICP unit is located within the ICP box to contain the analysis samples. The atmosphere within the ICP box is air. Materials used in the actinide tests: Test materials, along with paper wipes and waste cans for cleanup, are passed into the argon box through a transfer port from the Alpha lab. The test materials include the following items: o Actinide and rare earth elements as metals and chlorides o Cadmium as both metal and chloride o Tantalum and alumina crucibles

- o Tantalum, iron, and silver wire
- o Chloride salts (Ag, Li, K)
- o Alumina and Pyrex tubing
- o Tantalum foil
- o Sample bottles
- o NAA samples returned for use

Some solid samples of test materials are removed from the argon box through the neutron activation analysis (NAA) sample station for neutron activation or gamma spectrometer analysis. All other exits from the argon box are to the air box. Samples for analysis in the ICP, crucibles containing mixtures of actinides along with salts and cadmium, used tantalum materials, broken or used Pyrex and alumina, wire (Ta, Fe, and Ag), damaged glove box gloves, and packaged wastes (paper wipes) are all transferred to the air box through an interconnecting transfer port. Tantalum materials are normally cleaned and reused in the electrochemistry tests a number of times before they are disposed of as waste.

Aqueous chemicals, water, and beakers are transferred into the air box from the Alpha Lab for preparing and handling aqueous samples. These samples are analyzed in the ICP box and then returned to the air box. The air box is also cleaned frequently with paper wipes, and these are packaged in waste cans for disposal. Materials that are removed during test operations from the air box are either actinide materials that are being sent to storage, or wastes that are placed in 55-gal drums. Actinide materials consist of original actinide metal, crucibles containing actinides, salt, and cadmium metal, sample residue (oxides and chlorides remaining from aqueous samples), and NAA samples. Actinide materials are routinely removed from the glove boxes and returned to storage in sealed storage containers. The wastes removed from the air box will be used HEPA filters and refuse packaged in waste cans. Items removed from the air box are sealed in plastic bags as they exit the transfer port into the Alpha Lab.□□RECLASS_CO: classification of MURR waste is not complete□□CATION: NA□□WASTE_PACK: 55-gallon drums

Final Form Comments N/A

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TWBIR ID: NT-JAS-01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Combined metal scrap and incidental combustibles			**Inventory Date**	9/30/2002
Local ID	Jasper	**Waste Type**	TRU	**Generator Site**	NT	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	TBD

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	20.00	0.00	30.00
Aluminum-Base Metal/Alloys	3.00	0.00	30.00
Other Metal/Alloys	1.00	0.00	30.00
Other Inorganic Materials	1.00	0.00	5.00
Cellulosics	1.00	0.00	5.00
Rubber	1.00	0.00	5.00
Plastics	1.00	0.00	5.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

TBD

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.35E-01
Pu-238	7.02E-02
Pu-239	9.92E-02
Pu-240	8.02E-02
Pu-241	2.45E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : NT-JAS-01

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	0.0	90.7	226.8	136.1	0.0	453.6

As-Generated	Stored	0.0	Projected	453.6	Total	453.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	0.0	0.0	0.0	0.0	0.0	453.6

Final Form	Stored	0.0	Projected	453.6	Total	453.6

TWBIR ID: NT-JAS-01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Waste stream consists of spent Primary Target Chambers from Jasper gas gun experiments. PTCs are metal chambers used to contain debris from the impact of a sabot on a disk of plutonium metal.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: NT-W001

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	NT-W001	**Handling**	CH	**Stream Name**	Heterogeneous Debris, Uncategorized	**Inventory Date**	4/30/1995
Local ID	None	**Waste Type**	MTRU	**Generator Site**	LL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5490

EPA Codes

As-Generated
CA181, CA352, D001, D002, D003, D006, D007, D008, D011, F001, F002, F003, P015

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	72.20	6.10	422.50
Aluminum-Base Metal/Alloys	12.30	0.00	399.00
Other Metal/Alloys	5.80	0.00	383.40
Other Inorganic Materials	4.80	0.40	304.90
Cellulosics	52.50	0.00	315.80
Rubber	3.80	0.00	121.70
Plastics	50.10	3.70	234.30
Solidified, Inorganic Matrix	11.80	4.40	155.70
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	11.80	4.40	155.70
Soils	0.00	0.00	0.00
Packaging Material, Steel	146.78		
Packaging Material, Plastic	16.53		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

11A; 116A; 211A;2

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.91E-01
Am-243	1.99E-03
C-14	4.09E-07
Cf-249	1.89E-05
Cf-250	5.29E-04
Cf-252	8.94E-03
Cm-243	1.10E-06
Cm-244	6.78E-03
Cm-248	1.05E-11
Cs-137	6.53E-05
Eu-152	3.33E-03
Eu-154	1.99E-03
H-3	2.04E-04
Kr-85	6.53E-04

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : NT-W001

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	343.0	0.8	2.7	1.7	0.0	348.2
Drum / 85 gallon	0.3	0.0	0.3	0.0	0.0	0.6
Nonstandard Box	271.4	0.0	0.0	0.0	0.0	271.4

As-Generated	Stored	Projected	Total
	614.8	5.5	620.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	343.0	0.0	0.0	0.0	0.0	348.2
Standard Waste Box	270.3	0.0	0.0	0.0	0.0	274.0

Final Form	Stored	Projected	Total
	613.3	9.0	622.2

TWBIR ID: NT-W001

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
MFP	3.39E-02
Np-237	7.83E-06
Pa-231	8.15E-07
Pu-238	2.41E-01
Pu-239	4.53E+00
Pu-240	3.04E-02
Pu-241	5.61E-01
Pu-242	1.42E-04
Pu-244	1.63E-09
Ra-226	4.09E-04
Sr-90	2.23E-07
U-232	2.95E-05
U-233	2.94E-03
U-234	8.15E-06

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
U-235	1.71E-07
U-238	2.51E-07

Waste Stream Description

This waste stream consists of glovebox parts, laboratory trash, contaminated equipment and solidified sludges. Real time radiography has been performed on the waste to verify that there are no free liquids present, with the exception of liquid in aerosol cans, which, when treated will be eliminated from this waste stream. Most of the waste is contact-handled TRU waste; 3 drums are remote-handled.* The waste stream was generated at the Lawrence Livermore National Laboratory, Livermore, CA (LLNL) and shipped to the NTS from 1974 until 1990. The waste was declared as potentially mixed TRU waste by the generator in April, 1991.
*Due to recent storage reconfigurations and surveys, only three of the 4 previously reported packages are considered remote-handled.

Waste Stream Source Description

NTS STORED, TRU WASTE FROM LLNL
This waste stream, consisting of glovebox parts, laboratory trash, contaminated equipment, and solidified sludges, was generated from operations activities conducted at LLNL Buildings 251, 332, and 419. Actual activities and processes conducted to generate this waste stream are unknown.

Current Container Comments

Currently, all 55-gal. drums are overpacked within 85-gal. vented drums.

EPA Comments

Regulated contaminant information is based on process knowledge. No sampling of waste constituents has been conducted to date.

Management Comments

The Nevada Test Site (NTS) is located about 105 km (65 mi) northwest of Las Vegas, and occupies 3,497 km2 (1,350 mi2) of federally owned land in southeastern Nevada's Nye County. The Area 5 Radioactive Waste Management Site (RWMS) is located in Frenchman Flat within the southeast corner of the NTS, approximately 15 miles north of Mercury, Nevada and 80 miles northwest of Las Vegas, Nevada. The developed portion of the Area 5 RWMS occupies 37 hectares (ha) (92 acres) in the southeast corner of the 296 ha (732 acres) designated area of NTS Area 5. Building 5-24, a 21,470 square-foot fabric-covered structure, is located within the 92-acre RWMS on the TRU Waste Storage Pad, an asphalt pad comprising an area of 0.829 ha (2.05 acres) constructed to meet RCRA standards.

TWBIR ID: NT-W001

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Acceptance Comments

The majority of this waste inventory was packaged before RCRA characterization requirements were imposed. Lawrence Livermore National Laboratory (LLNL) (the generator) declared the inventory to be "mixed" in April 1991. EPA Codes were estimated on the basis of TRU waste assessments and other information provided by the generator. The actual waste matrix and contaminant parameters will be further defined during future waste characterization and certification activities for the express purpose of certifying the waste to meet TRUPACT transport and WIPP disposal requirements.**This TRU waste inventory originated from LLNL/ Bldg. 251, LLNL/Bldg. 332, and LLNL/Bldg. 419; contact: Kem Hainebach, LLNL, (510) 422-4572. LLNL/Bldg. 251 generated TRU waste containing debris potentially contaminated with the following RCRA solvents and acids: nitric acid dried on Kimwipes (ignitable) (EPA code D001), and RCRA metals cadmium in "silver" solder (EPA code D006) and lead (EPA code D008).**LLNL/Bldg. 332 generated TRU waste debris potentially contaminated with: carbon tetrachloride (CC1-4) on Kimwipes (F001), ethyl alcohol (D001), freon TF on cotton wipes and Kimwipes (F001), methanol on Kimwipes (F003), nitric acid (D002, and if >45%, an oxidizer (D001), nitric acid on Kimwipes (ignitable) (D001), trichloroethylene (TCE) (F001), varnish and paints (D001); RCRA metals calcium (D003), and lead (D008); and the following CA hazardous wastes: beryllium, sometimes as flakes, (CA code 181), cerium (CA 181), copper (CA 181), copper shavings (CA 181), gallium (CA 181), Invoil-42 (an oil, potentially CA hazardous) (CA 352), kerosene (an oil, potentially CA hazardous) (CA 352), magnesium powder (CA 181), oil and oily rags (CA 352), and yttrium oxide (CA 181).
LLNL /Bldg. 419: TRU waste debris potentially contaminated with: trichloroethylene (TCE) (F001), and CA hazardous waste oil (California code 352).**Past assay efforts resulted in undetermined final numbers on gram content; re-assay to be conducted.**It has been established that the bulk of the TRU mixed wastes stored at the Area 5 RWMS were placed into storage prior to the effective date of the LDR prohibitions applicable to solvent waste and that any attempt to move the wastes to another facility would trigger LDR requirements. Mixed wastes stored prior to the effective date of applicable LDR requirements "are not subject to the LDR storage prohibition as long as they are not removed from storage or otherwise actively managed while in storage." (57 Federal Register 22024, 22041 [05-26-92]).**The management of the Area 5 RWMS TRU mixed waste inventory is governed by a Settlement Agreement between the state of Nevada and DOE/NV. The TRU mixed waste shall remain in storage until such time that EPA issues a no-migration variance to WIPP, after the test phase, or when suitable treatment capacity is developed with which to treat the wastes. The TRU mixed waste is contained in 1636 0.208 m3 (55-gallon) steel drums and 58 steel boxes of various sizes. The 55-gallon drums are overpacked in 0.321 m3 (85-gallon) DOT Type A drums which are vented with carbon-composite filters. The inventory also includes one 0.321 m3 (85-gallon) drum which is vented with a carbon-composite filter. The containers are stored on pallets inside the TRU Cover Building 5-24. The drums are triple-stacked and boxes double-stacked. Three-foot aisleways between container rows provide for routine RCRA inspections, and 4-foot fire aisles are located at all four personnel exits.** Lead may have been used as shielding inside some containers. Liquids are solidified in individual one-gallon, metal paint can containers which are then placed in 55-gallon drums, although several containers were found to contain small amounts of free liquids (via RTR). Boxed waste includes decommissioned glove boxes, hoods, and large pieces of contaminated equipment. Combustibles (tissues, paper, assorted plastics, and bagging) fill the void spaces in both boxes and drums. Most boxes have permanent skids, but all are stored on pallets. A standard eight-ton forklift is used to shuttle the boxes, and a drum-handler is attached to the fork tines to shuttle drums.

Final Form Comments

No TRU standard waste boxes (SWBs) are currently in storage at NTS. However, current storage numbers are representative of the assumption that 143 SWBs will be required to repack all 58 nonstandard boxes. Projections include 2 SWBs from decon activities.

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TWBIR ID: NT-W021

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	NT-W021	**Handling**	CH	**Stream Name**	V3XA Spheres			**Inventory Date**	12/31/1994
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	LL, ZZ	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	272.00	0.00	544.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

None

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	1.92E-01
Pu-239	5.69E+00
Pu-240	1.30E+00
Pu-241	3.19E+01
Pu-242	1.15E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : NT-W021

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Sphere/3-ft. dia X 4-ft. dia Stai	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated	Stored	0.9	Projected	0.0	Total	0.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	5.7	0.0	0.0	0.0	0.0	5.7

Final Form	Stored	5.7	Projected	0.0	Total	5.7

TWBIR ID: NT-W021

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The two steel vessels are 1-inch thick by 3-feet diameter, weighing about 2700 lbs. each. The vessels contain heterogeneous mixtures of the following materials: Plutonium, D-38, Beryllium metal, Completely burned high explosive, Stainless steel, Brass, Polystyrene foam, Aluminum, Coke (degassed coal), Water absorbed by the coke, Steel, Glass, Epoxy resin, Thermalite (aerated cement block), Plaster, Hortag (fly-ash and clay), Wood, and Krypton-85 tracer gas for leak detection. The UK has had similar vessels in storage for over ten years, but none containing plutonium have ever been opened. Vessels containing D-38 only have been opened, with small amounts of water vapor and some loose debris found inside. The bulk of the materials were found to be trapped within the thick coke layer lining the inner surface of the vessel. No more wastes of this type are planned to be generated.
Waste Stream Source Description	This is a "one-time" generated TRU waste stream, resulting from joint US/UK tests conducted in the United Kingdom. Each vessel is a 3-foot diameter sphere, weighing about 2700 pounds. High explosives were detonated inside the vessel chamber, resulting in a concrete-like, heterogeneous substance made up of Pu, depleted uranium, beryllium, pulverized coke, glass, wood, steel, and aluminum debris.
Current Container Comments	N/A
EPA Comments	This waste stream is not "mixed."
Management Comments	N/A
Acceptance Comments	Previously, LLNL had inquired about having an exemption from WIPP WAC issued for this waste stream. Per correspondence from Arlen Hunt (ALO/WIPP) to Daniel Nakahara (DOE/SAN) [memo TSIT:HJD 90-0049, "TRU Material Above WIPP-WAC Safety Limits", March 6, 1990], the Waste Acceptance Criteria Certification Committee could not determine "if these containers will ever qualify for disposal at WIPP." Until such time that an alternative disposal site is made available, or exemption from the WIPP-WAC is received, this waste stream will remain in safe storage at the NTS.
Final Form Comments	Internal volume of SWB is assumed to be 1.89 cubic meters; total waste stream volume (external) estimated at 5.678 cu. m., divided by 1.89 = 3 SWBs. Plastic bagging would be used to contain any contamination. This also assumes, although highly unlikely, that the vessels are size-reduced to fit inside SWBs, as opposed to being shipped within TDOPs. Considering FGE within each vessel, two TDOPs could probably be used for shipping this waste stream to WIPP.

TWBIR ID: OR-W201

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	CH-TRU Heterogeneous Solids - non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	AU	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	96.20	0.00	1716.40
Aluminum-Base Metal/Alloys	0.80	0.00	1.60
Other Metal/Alloys	10.65	0.00	21.30
Other Inorganic Materials	2.40	0.00	24.00
Cellulosics	80.90	0.00	184.60
Rubber	7.40	0.00	17.90
Plastics	64.90	0.00	184.90
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	1.50	0.00	3.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	330.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	Unknown
PCBs:	Unknown
Source:	Source Unknown

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.19E+00
Am-243	1.42E-04
Bk-249	2.18E-06
C-14	3.66E-06
Cf-249	8.95E-05
Cf-252	5.85E-03
Cm-242	1.51E-03
Cm-244	2.54E+00
Cm-245	6.07E-05
Cm-248	2.39E-04
Co-60	5.74E-08
Cs-137	2.06E-04
Es-253	4.76E-07
Eu-152	1.40E-05

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : OR-W201

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.0	23.3	34.9	0.0	0.0	57.4

As-Generated	Stored	0.0	Projected	57.4	Total	57.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	57.4

Final Form	Stored	0.0	Projected	57.4	Total	57.4

TWBIR ID: OR-W201

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Fe-59	8.63E-02
Ni-63	2.39E-06
Np-237	6.60E-04
Pa-231	2.58E-05
Pm-147	2.16E-04
Po-209	4.31E-08
Pu-238	2.72E+01
Pu-239	1.78E+01
Pu-240	1.77E+01
Pu-241	1.65E+03
Pu-242	1.46E-03
Ra-223	2.58E-05
Ra-226	1.01E-04
Sr-90	7.32E-08

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Te-123	5.60E-07
Te-123m	1.71E-05
Th-232	4.72E-07
U-232	1.79E-06
U-233	4.50E-01
U-234	3.59E-01
U-235	4.27E-05
U-236	1.75E-07
U-238	3.77E-04
Y-90	7.32E-08

Waste Stream Description	Treated CH-TRU dibris from the FWENC facility. Alpha contaminated waste not meeting the definition of TRU will be segregated out from currently stored inventory during the treatment process and will be disposed of at NTS.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	This waste stream includes OR-W086, OR-W053, OR-W041, OR-W093, OR-W102
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: OR-W202

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	CH-TRU Heterogeneous Solids - mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	AU	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	96.20	0.00	1716.40
Aluminum-Base Metal/Alloys	0.80	0.00	1.60
Other Metal/Alloys	10.65	0.00	21.30
Other Inorganic Materials	2.40	0.00	24.00
Cellulosics	80.90	0.00	184.60
Rubber	7.40	0.00	17.90
Plastics	64.90	0.00	184.90
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	1.50	0.00	3.00
Soils	319.00	0.00	1201.90
Packaging Material, Steel	330.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	Unknown
PCBs:	Unknown
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.46E+00
Am-243	3.35E-02
Bk-249	1.07E-02
Cf-249	6.54E-05
Cf-252	1.11E-02
Cm-240	6.54E-06
Cm-242	4.41E-01
Cm-244	1.09E+01
Cm-245	1.66E-06
Cm-248	9.92E-05
Co-60	2.55E-05
Cs-137	1.96E+01
Es-254m	7.12E-02
Np-237	2.71E-03

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : OR-W202

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.0	111.2	166.9	0.0	0.0	278.1

As-Generated	Stored	0.0	Projected	278.1	Total	278.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	278.1

Final Form	Stored	0.0	Projected	278.1	Total	278.1

TWBIR ID: OR-W202

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Pa-231	2.05E-03
Pm-147	3.03E-02
Pu-238	1.62E+01
Pu-239	9.46E-01
Pu-240	9.04E-01
Pu-241	1.09E+01
Pu-242	1.02E-03
Ra-226	1.04E-02
Sr-90	1.17E+01
Tc-99	1.11E-01
Th-230	7.85E-08
Th-232	4.72E-06
U-232	2.05E-03
U-233	4.14E-01

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
U-234	3.86E-05
U-235	2.84E-05
U-236	5.81E-07
U-238	1.64E-04
Zn-65	1.83E-05

Waste Stream Description TREATED CH-TRU DEBRIS FROM THE FWENC FACILITY. INCLUDES WASTE CONTAINERS FROM NFS. MIXED WASTE TREATED TO LDR OR MACROENCAPSULATED.

Waste Stream Source Description N/A

Current Container Comments N/A

EPA Comments N/A

Management Comments This waste stream includes OR-W044, OR-W088, OR-W045, OR-W091, OR-W047, OR-W48

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: OR-W203

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	N/A			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	AU	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	96.20	0.00	1716.40
Aluminum-Base Metal/Alloys	0.80	0.00	1.60
Other Metal/Alloys	10.65	0.00	21.30
Other Inorganic Materials	2.40	0.00	24.00
Cellulosics	80.90	0.00	184.60
Rubber	7.40	0.00	17.90
Plastics	64.90	0.00	184.90
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	1.50	0.00	3.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	330.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	Unknown
PCBs:	Unknown
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ag-110m	5.04E-04
Am-241	9.03E-03
Am-243	6.44E-04
Ce-141	1.42E-02
Ce-144	4.59E-03
Cf-249	9.93E-06
Cf-250	4.21E-04
Cf-251	1.84E-06
Cf-252	1.63E-02
Cm-242	4.95E-03
Cm-244	1.11E+00
Cm-246	7.76E-03
Cm-248	2.08E-05
Co-60	2.67E-04

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : OR-W203

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.0	18.0	46.9	30.0	0.0	95.1

As-Generated	Stored	Projected	Total
	0.0	95.1	95.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	95.1

Final Form	Stored	Projected	Total
	0.0	95.1	95.1

TWBIR ID: OR-W203

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Cs-134	2.57E-03
Cs-137	3.36E-02
Eu-152	9.82E-04
Eu-154	4.86E-03
Eu-155	3.51E-03
Np-239	1.28E-03
Pu-238	6.79E-03
Pu-239	1.24E-04
Pu-240	5.84E-03
Pu-241	8.10E-02
Pu-242	8.46E-05
Ru-103	6.69E-03
Ru-106	3.02E-02
Sb-125	1.77E-03

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Sr-90	2.49E-01
Zr-95	3.62E-03

Waste Stream Description	Hot Cell Debris Waste
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: OR-W204

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	PCB contaminated CH-TRU debris			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	AU	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	96.20	0.00	1716.40
Aluminum-Base Metal/Alloys	0.80	0.00	1.60
Other Metal/Alloys	10.65	0.00	21.30
Other Inorganic Materials	2.40	0.00	24.00
Cellulosics	80.90	0.00	184.60
Rubber	7.40	0.00	17.90
Plastics	64.90	0.00	184.90
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	1.50	0.00	3.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	330.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	Unknown
PCBs:	Yes
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.37E-02
Cm-244	2.39E-05
Co-60	9.36E-06
Cs-134	2.91E-07
Cs-137	5.76E-02
Eu-152	1.28E-04
Eu-154	8.98E-05
Eu-155	2.37E-05
Pu-238	3.99E-02
Pu-239	1.10E-02
Pu-240	7.48E-03
Pu-242	1.99E-08
Sr-90	5.60E-04
Th-228	1.41E-04

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : OR-W204

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.0	7.3	11.0	0.0	0.0	18.3

As-Generated	Stored	Projected	Total
	0.0	18.3	18.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	18.3

Final Form	Stored	Projected	Total
	0.0	18.3	18.3

TWBIR ID: OR-W204

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
U-232	1.41E-04
U-233	1.84E-02
U-234	4.09E-09
U-235	3.01E-06
U-236	1.87E-10
U-238	1.55E-05

Waste Stream Description	PCB contamination 240ppm.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: OR-W211

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	RH TRU Heterogeneous Debris (Treated)			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	AU	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	96.20	0.00	1716.40
Aluminum-Base Metal/Alloys	0.80	0.00	1.60
Other Metal/Alloys	10.65	0.00	21.30
Other Inorganic Materials	2.40	0.00	24.00
Cellulosics	80.90	0.00	184.60
Rubber	7.40	0.00	17.90
Plastics	64.90	0.00	184.90
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	1.50	0.00	3.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	900.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	Unknown
PCBs:	Unknown
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ag-110m	9.52E-04
Am-241	1.70E-02
Am-243	1.22E-03
Ce-141	2.69E-02
Ce-144	8.67E-03
Cf-249	1.87E-05
Cf-250	7.95E-04
Cf-251	3.48E-06
Cf-252	3.08E-02
Cm-242	9.34E-03
Cm-244	2.10E+00
Cm-246	1.46E-02
Cm-248	3.92E-05
Co-60	5.05E-04

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : OR-W211

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	30.6	45.9	0.0	0.0	76.5

As-Generated	Stored	Projected	Total
	0.0	76.5	76.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	0.0	0.0	76.5

Final Form	Stored	Projected	Total
	0.0	76.5	76.5

TWBIR ID: OR-W211

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Cs-134	4.86E-03
Cs-137	6.33E-02
Eu-152	1.86E-03
Eu-154	9.16E-03
Eu-155	6.63E-03
Np-239	2.43E-03
Pu-238	1.28E-03
Pu-239	2.33E-04
Pu-240	1.10E-02
Pu-241	1.53E-01
Pu-242	5.25E-05
Ru-103	1.27E-02
Ru-106	5.71E-02
Sb-125	3.35E-03

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Sr-90	4.70E-01
Zr-95	6.81E-03

Waste Stream Description This waste stream consists of RH TRU waste which is classified as contaminated equipment, decontaminated debris or dry solids. The physical form is solid. The radionuclide information has been updated with information from a 1997 analysis campaign.

Waste Stream Source Description N/A

Current Container Comments N/A

EPA Comments N/A

Management Comments This waste stream includes OR-W094, OR-W054, OR-W101, OR-W106

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: OR-W212

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	N/A			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	AU	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	96.20	0.00	1716.40
Aluminum-Base Metal/Alloys	0.80	0.00	1.60
Other Metal/Alloys	10.65	0.00	21.30
Other Inorganic Materials	2.40	0.00	24.00
Cellulosics	80.90	0.00	184.60
Rubber	7.40	0.00	17.90
Plastics	64.90	0.00	184.90
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	1.50	0.00	3.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	900.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	Unknown
PCBs:	Unknown
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ag-110m	9.52E-04
Am-241	1.70E-02
Am-243	1.22E-03
Ce-141	2.69E-02
Ce-144	8.67E-03
Cf-249	1.87E-05
Cf-250	7.95E-04
Cf-251	3.48E-06
Cf-252	3.08E-02
Cm-242	9.34E-03
Cm-244	2.10E+00
Cm-246	1.46E-02
Cm-248	3.92E-05
Co-60	5.05E-04

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : OR-W212

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	49.1	101.8	42.2	0.0	193.1

As-Generated	Stored	Projected	Total
	0.0	193.1	193.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	0.0	0.0	193.1

Final Form	Stored	Projected	Total
	0.0	193.1	193.1

TWBIR ID: OR-W212

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Cs-134	4.86E-03
Cs-137	6.33E-02
Eu-152	1.86E-03
Eu-154	9.16E-03
Eu-155	6.63E-03
Np-239	2.43E-03
Pu-238	1.28E-03
Pu-239	2.33E-04
Pu-240	1.10E-02
Pu-241	1.53E-01
Pu-242	5.25E-05
Ru-103	1.27E-02
Ru-106	5.71E-02
Sb-125	3.35E-03

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Sr-90	4.70E-01
Zr-95	6.81E-03

Waste Stream Description	Radionuclides from updated model. Mixed waste treated to LDR.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: OR-W213

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	ER RH TRU Heterogeneous Soils			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	AU	**Final Waste Form**	Soils	**Waste Matrix Code**	S4200

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	1300.00	0.00	1300.00
Packaging Material, Steel	900.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	Unknown
PCBs:	Unknown
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.33E-08
Am-243	3.42E-11
C-14	2.72E-11
Cm-243	1.58E-09
Cm-244	1.58E-09
Co-60	4.45E-11
Cs-137	1.61E-06
Eu-152	1.75E-10
Eu-154	1.71E-10
Np-237	8.47E-11
Pu-238	2.34E-08
Pu-239	5.58E-08
Pu-240	5.58E-08
Pu-241	3.62E-08

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : OR-W213

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	78.7	118.0	0.0	0.0	196.7

As-Generated	Stored	Projected	Total
	0.0	196.7	196.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	0.0	0.0	196.7

Final Form	Stored	Projected	Total
	0.0	196.7	196.7

TWBIR ID: OR-W213

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Pu-242	3.03E-11
Sr-90	1.17E-08
Tc-99	3.32E-11
Th-228	1.83E-09
Th-229	8.50E-10
Th-230	1.58E-10
Th-232	3.33E-10
U-232	1.86E-09
U-233	2.32E-09
U-234	1.99E-09
U-235	1.20E-11
U-238	3.98E-11

Waste Stream Description This waste is made up of soils.

Waste Stream Source Description N/A

Current Container Comments N/A

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: OR-W214

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	PCB Contaminated RH-TRU Debris			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	AU	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	96.20	0.00	1716.40
Aluminum-Base Metal/Alloys	0.80	0.00	1.60
Other Metal/Alloys	10.65	0.00	21.30
Other Inorganic Materials	2.40	0.00	24.00
Cellulosics	80.90	0.00	184.60
Rubber	7.40	0.00	17.90
Plastics	64.90	0.00	184.90
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	1.50	0.00	3.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	900.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	Unknown
PCBs:	Yes
Source:	N/A

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.27E-01
C-14	2.72E-04
Cm-244	1.18E-02
Co-60	1.16E-01
Cs-134	2.48E-02
Cs-137	1.44E+00
Eu-152	2.40E+00
Eu-154	7.72E-01
Eu-155	1.92E-01
Np-237	2.27E-05
Pu-238	2.09E-02
Pu-239	2.01E-01
Sr-90	2.04E-01
U-233	2.34E-03

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : OR-W214

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.7	1.1	0.0	0.0	1.8

As-Generated	Stored	Projected	Total
	0.0	1.8	1.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	0.0	0.0	1.8

Final Form	Stored	Projected	Total
	0.0	1.8	1.8

TWBIR ID: OR-W214

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
U-238	3.46E-03

Waste Stream Description	PCB contamination 240 ppm
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: OR-W215

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	RH-TRU Solidified Sludge			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	AU	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3121

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	1710.00	0.00	1710.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	900.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	Unknown
PCBs:	Unknown
Source:	Pollution Control or Waste Treatment Process

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.67E+00
Cf-252	3.49E-03
Cm-244	8.88E+00
Co-60	8.48E+00
Cs-137	1.23E+02
Eu-152	2.99E+01
Eu-154	1.68E+01
Eu-155	4.59E+00
H-3	3.56E-03
Pu-238	1.46E+00
Pu-239	7.05E-01
Pu-240	1.47E-01
Pu-241	1.56E+00
Pu-242	2.96E-04

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : OR-W215

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	76.9	115.3	0.0	0.0	192.2

As-Generated	Stored	0.0	Projected	192.2	Total	192.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	0.0	0.0	192.2

Final Form	Stored	0.0	Projected	192.2	Total	192.2

TWBIR ID: OR-W215

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Pu-244	3.34E-05
Ru-106	1.32E+00
Sr-90	4.37E+02
Th-232	5.30E-03
U-232	9.00E-02
U-233	7.00E-01
U-234	7.40E-02
U-235	1.44E-03
U-236	2.55E-04
U-238	6.64E-02
Zr-95	3.83E+00

Waste Stream Description Waste is treated stream from a mixture from the Melton Valley Storage Tanks (MVST), MVST, Capacity Increase Project Tanks, and Bethel Valley Evaporator Storage Tanks. Waste from the Old Hydrofracture (OHF) and Gunite and Associated Tanks (GAAT) was previously mixed into the MVST. Additional input of 37Kg of U233 from ER waste stream.

Waste Stream Source Description N/A

Current Container Comments N/A

EPA Comments N/A

Management Comments WASTE STREAM INCLUDES, OR-W046, OR-W098

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: PA-A015

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	PA-A015	**Handling**	CH	**Stream Name**	Transuranic - Solid			**Inventory Date**	9/30/2002
Local ID	PA-A015	**Waste Type**	MTRU	**Generator Site**	PA	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S3129

EPA Codes

As-Generated
D007

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	23.30	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	212.00		
Packaging Material, Plastic	17.50		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Np-237	3.65E-03
Pu-239	2.42E-02
Tc-99	2.60E-01
Th-230	4.90E-03
U	2.42E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : PA-A015

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum/55-gallon in overpack	2.1	0.0	0.0	0.0	0.0	2.1

As-Generated	Stored	Projected	Total
	2.1	0.0	2.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	5.7	0.0	0.0	0.0	0.0	11.3

Final Form	Stored	Projected	Total
	5.7	5.7	11.3

TWBIR ID: PA-A015

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Transuranic Waste Class C, andTransuranic Waste Basic, class C filter/White Powder
Waste Stream Source Description	C-400
Current Container Comments	tbrown Assumed internal volume of Drum/55-gallon in overpack is 0.30 m3.
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0001

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W010	**Handling**	CH	**Stream Name**	Aqueous Sludge/TRM	**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3121

EPA Codes

As-Generated
D004, D005, D009, D010, F001, F002, F005, F006, F007, F009

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	8.59	8.59	8.59
Solidified, Inorganic Matrix	414.81	414.81	414.81
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	134.76		
Packaging Material, Plastic	24.11		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Pollution Control or Waste Treatment Process

TRUCON Codes

111

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.42E+02
Pu-238	1.13E+00
Pu-239	2.41E+01
Pu-240	5.52E+00
Pu-241	1.41E+02
Pu-242	6.98E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0001

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	7.5	0.0	0.0	0.0	0.0	7.5
Drum / 85 gallon	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	Projected	Total
	8.1	0.0	8.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	7.5	0.0	0.0	0.0	0.0	7.5
85 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	Projected	Total
	8.1	0.0	8.1

TWBIR ID: RF-MT0001

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is a solid cemented sludge. It could have small amounts of free liquids in the bottom of the container.
Waste Stream Source Description	Aqueous sludge wastes assigned IDCs 001 and 800 were generated by the high-level aqueous waste treatment system in Building 774. IDC 001 was replaced by IDC 800 in 1986. A two-stage basic waste treatment, precipitation, and filtration process generates IDCs 001 and 800 aqueous sludge. Acidic wastes are neutralized with sodium hydroxide in stage one. Ferric sulfate and Purifloc flocculant are added to the neutralized waste (containing metal ions) to precipitate the sludge prior to filtration. In stage two, ferric sulfate, magnesium sulfate, calcium chloride, and Purifloc flocculant are added to basic wastes during the two-stage treatment to precipitate sludge. The sludge slurry from the acidic and basic waste treatment is drawn through a diatomite filter media on a rotating drum filter to trap the solids. The filter media and sludge are continuously scraped off the drum filter and co-fed into a 55-gallon drum with additional diatomite and Portland cement making up the solidification process. No mechanical mixing of the sludge and cement is performed. Prior to 1979, IDC 001 consisted of sludge from the first-stage treatment only. When the first- and second-stage sludges were packaged separately, two vacuum filters were used. From 1979 to 1986, IDC 001 was a combination of the sludges from the first- and second-stage treatment processes. The sludge was produced chemically in the same fashion aqueous waste was treated to produce IDC 800 sludge. The solidification process for IDC 001 differs from the IDC 800 method of adding cement and diatomite as the sludge collects. Portland cement was added to the bottom of the IDC 001 drum prior to placing the sludge in the drum. In some cases additional Portland cement was added on top of the sludge. Prior to September 1984, Building 774 accepted many aqueous process wastes from other buildings. These wastes, now piped to Building 374, were treated as described above. The accepted wastes included aqueous waste from Buildings 122, 123, 444, 559, 707, 776, 778, 779, 865, 881, 883, 889. After August 1984 and the start-up of the Building 374 Precipitation Process, only waste piped from Building 771 (stream condensate, scrubber waste, ion column effluent, and process waste sinks), waste in containers from various buildings, and wastes generated within Building 774 (silver recovery effluent, seal liquid, and floor washdown) were accepted. From 1986 through 1989, the treatment process treated from 150,000 gallons to over 500,000 gallons per year and generated 2,700 drums of IDCs and 800 sludge. See Solidified Bypass Sludge/LLM for detailed descriptions of IDCs 007, 803, and 807.
Current Container Comments	N/A
EPA Comments	According to the Building 774 Second-Stage Treatment Log (January 1981 to October 1989), prior to September 1984, the Building 774 aqueous waste treatment system received waste streams that are treated in the Building 374 Liquid Waste Treatment Facility. These streams affected the characterization of Building 774 solidified sludge until September 1985. The choice of the transition date of September 1984 is discussed in detail under the Subpopulation 55A discussion in the Backlog Baseline Book prepared by Rocky Flats. Information contained in the November 1992 WSRIC Valve Vaults Book has been used to characterize waste streams treated in Building 774 prior to September 1984. The Valve Vaults book describes the process waste sent to Building 374 for treatment. The book was used because it is the only reference that provides detailed characterization information on waste that was sent to Building 774. Other references and interviews have been used to enhance or add to this information as it relates to the waste form.
Management Comments	N/A
Acceptance Comments	RFP has assumed this waste to be LDR based on process knowledge characterization and limited analytical data.

TWBIR ID: RF-MT0001

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

	1. Basis for determining LDR storage prohibition status is based pirmarily on process knowledge. WASTE_ PACK: Waste is packaged in 55 gallon DOT 7A Type A Drums. The drums are lined with one rigid polyethylene liner and two bag liners.
Final Form Comments	N/A

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TWBIR ID: RF-MT0002

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W010	**Handling**	CH	**Stream Name**	Aqueous Sludge/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3121

EPA Codes

As-Generated
D004, D005, D009, D010, F001, F002, F005, F006, F007, F010

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	217.70	217.70	217.70
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	196.00	196.00	196.00
Cement (Solidified)	130.60	130.60	130.60
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	64.80		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Waste Treatment

TRUCON Codes

111

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.42E+02
Pu-238	1.13E+00
Pu-239	2.41E+01
Pu-240	5.52E+00
Pu-241	1.41E+02
Pu-242	6.98E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0002

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	0.6	Projected	0.0	Total	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	0.6	Projected	0.0	Total	0.6

TWBIR ID: RF-MT0002

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Aqueous waste treatment sludge.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	EPA hazardous waste numbers are assigned to this waste stream based on process knowledge.
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0003

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W013	**Handling**	CH	**Stream Name**	Solidified Organics/TRM			**Inventory Date**	9/30/2002
Local ID	IDC 801	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3290

EPA Codes

As-Generated
F001, F002

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	29.36	29.36	29.36
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	2.91	2.91	2.91
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.57		
Packaging Material, Plastic	32.46		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

112

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.93E-03
Pu-238	9.72E-02
Pu-239	2.07E+00
Pu-240	4.74E-01
Pu-241	1.21E+01
Pu-242	6.00E-05
U-235	7.04E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0003

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	1.7	0.0	0.0	0.0	0.0	1.7

As-Generated	Stored	Projected	Total
	1.7	0.0	1.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.7	0.0	0.0	0.0	0.0	1.7

Final Form	Stored	Projected	Total
	1.7	0.0	1.7

TWBIR ID: RF-MT0003

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description

This waste stream consists of a cemented solid, with some free liquids. It can also have some small chunks in it.

Waste Stream Source Description

Solidified organics are cemented waste oils and solvents that were generated as a result of machining and tool degreasing. Waste oil was transferred primarily from Buildings 707 and 777. Cementation was performed in Waste Management Unit (WMU) 56, Room 210, Building 774. The earliest generation date for the backlog inventory is June 1984. The Organic and Sludge Immobilization System (OASIS) Process generating solidified organics stopped in January 1990. These containers are assigned IDC 0003 and 0801.

Solidified organics waste currently stored at Rocky Flats was generated by the Grease Plant Process or the OASIS Process. The Grease Plant Process operated until November 1985. The OASIS Process began operating in November 1985. The last OASIS runs occurred in 1991.

Tanks T-1 and T-2, Tank T-374A, and Tanks T-13 and T-14 have all received waste oils and solvents for treatment at various times. The waste oils and solvents were generated primarily by processes in Buildings 707 and 777. Solvent-contaminated waste oils were generated by plutonium machining and tool degreasing. Ultrasonic cleaners consisting of trichloroethane baths were used to clean parts. Buildings 707 and 777 also cleaned metal turnings and scrap in carbon tetrachloride baths before forming them into briquettes.

Laboratory wastes in bottles were poured into containers of solidified organics in the past. Laboratory waste contaminants included organophosphates and nitrobenzene. According to the generator, bottled laboratory wastes were poured into five or fewer solidified organics containers. However, there is no documentation specifying the individual drums.

The majority of wastes fed to the solidified organics generation processes consisted of plutonium-contaminated oils and solvents. A cutting oil, usually Texaco Regal "A," flowed onto a part during machining. After machining, the part was rinsed to remove residual oil. Various solvents were used to rinse machined parts and degrease tools. These included trichloroethylene and tetrachloroethylene. According to the generator, trichloroethylene and tetrachloroethylene use stopped in 1973.

Spent carbon tetrachloride and trichloroethane from cleaning baths were also fed to the solidified organics generation processes. Parts for assembly from Buildings 707 and 777 were cleaned in ultrasonic wash tanks before welding. The tanks contained 15 gallons of trichloroethane. In another cleaning process, metal turnings and scraps were placed into perforated metal baskets and dipped into a series of tanks containing carbon tetrachloride. Each of the steel tanks held 4 gallons of solvent. The cleaned metal was then formed into briquettes. Carbon tetrachloride and trichloroethane baths were replaced periodically.

Waste oil and solvents were drained and pumped into storage tanks. The wastes were then filtered to recover the actinides. After filtering, the plutonium and uranium concentrations in the waste were measured. If the concentrations were above specified transfer limits, the waste was refiltered in the Ful-Flo filtration system. When the concentrations of plutonium and uranium were below transfer limits, the waste was transferred to the solidified organics generation processes in Building 774.

Tanks T-1 and T-2, Tank T-374A, and Tanks T-13 and T-14 received waste oils from the same processes in Buildings 707 and 777. Tanks T-1 and T-2 fed waste oils to the Grease Plant Process and the OASIS Process. Tank T-374A began feeding waste oils to the OASIS Process after damage to Tanks T-1 and T-2 was identified and they were removed from operation. Tanks T-13 and T-14 began feeding waste oils after Tank T-374A. Tanks T-374A, T-13, and T-14 were used simultaneously until Tank T-374A was removed from operation. Tanks T-13 and T-14 continued feeding the OASIS Process until it stopped in January 1990.

In the Grease Plant Process, waste oil and Microcel E (calcium silicate) were fed separately into a continuous mixer. Small amounts of Oil Dri were sometimes added to the mixture as well. The amounts of materials added to the mixture were not metered. However, the operator would adjust the composition if the outgoing mixture did not have a paste-like consistency. The mixture would then drop into an O-ring bag contained in a 55-gallon drum. Drums of solidified organics from the Grease Plant Process were subsequently transported to the Size Reduction Facility in Building 776 for inspection and sealing.

OASIS was a batch-type process generating one drum per run. Waste oils were pumped into an O-ring bag contained in a 55-gallon drum attached to the

bottom of the OASIS glovebox. Envirostone emulsifier, gypsum cement, and accelerator were also metered into the bag. House water, which had not been used in any other processes, was added to the mixture as well. A Lightning Mixer was lowered into the drum after all of the materials were added. The amount of materials added to the mixture was operator controlled.

The drums were transferred to WMU 73, Room 241, after they had been inspected and sealed. Solidified organics containers from the OASIS process were stored in Building 774 until they were transferred to Building 371 for nondestructive assay (NDA). After RTR, drums were usually sent to Building 664, where they were stored until shipment off site. Solidified organics waste is not being shipped at this time. Consequently, Building 664 has reached capacity and solidified organics are also being stored in Buildings 371, 569, 774, and 776.

Current Container Comments N/A

EPA Comments Solidified organics were generated by the OASIS process after November 11, 1985.

Analytical information regarding solidified organics was not found in the WSRIC Sampling and Analysis database. However, non-WSRIC analytical data from 1988 and 1989 are considered in the characterization of the waste. The analytical method was not specified for the results. However, Toxicity Characteristic Leaching Procedure (TCLP) analysis was not typically performed in 1988 and 1989. The results are assumed to be from Totals analysis. Validated headpsace analysis performed on drums containing solidified organics are considered as well. Headspace analytical results support the 1988 and 1989 results from sampling and analysis.

Wastes received by Tanks T-1 and T-2, T-374A, and T-13 and T-14 were intermittently contaminated with Resource Conservation and Recovery Act (RCRA) organics. Carbon tetrachloride (D019), nitrobenzene (D036), and trichloroethylene (D040) were cited contaminants. Nitrobenzene was a contaminant in nonroutine laboratory waste and was introduced into five or fewer drums. Contaminated drums could be not be identified. However, the solidified organics population, as a whole, does not exhibit the toxicity characteristic for nitrobenzene.

Sampling and analysis of three solidified organics samples in 1988 and 1989 indicated the waste exceeded toxicity characteristic criteria for carbon tetrachloride (EPA Code D019). The waste did not exceed toxicity characteristic criteria for any of the other cited RCRA organics. TCLP analysis of the waste under EPA SW-846 is required to support the analytical results and confirm the assumptions.

Based on the "mixture" rule and the "derived-from" rule, solidified organics would carry the listed EPA codes associated with the wastes fed to the solidified organics generation processes. EPA Codes F001 and F002 are assigned to all solidified organics because wastes received by Tanks T-1 and T-2, T-374A, and T-13 and T-14 were contaminated with regulated spent solvents in the past.

Sampling and analysis of solidified organics waste in 1988 and 1989 indicated the waste exceeded the F001 and F002 LDR treatment standards for carbon tetrachloride and 1,1,1-trichloroethane. The analyses found detectable concentrations of other F001 and F002 constituents, as well. Total analysis of the waste under EPA SW-846 is required to confirm these results.

P- and U-listed EPA codes for discarded commercial chemical products will not be assigned to solidified organics. Excess chemicals are stored on the plant site. However, there is no documentation supporting P- and U-listed waste codes for specific chemicals that were disposed of in process waste. Cited laboratory chemicals like nitrobenzene were used for their intended purpose as reagents and were not discarded commercial chemical products.

Management Comments N/A

Acceptance Comments RFP has assumed this waste to be LDR based on process knowledge characterization, and one sample analyzed for volatiles in 1988.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. The waste is stored in 55-gallon carbon steel drums with a rigid polyethylene liner and one or two bag liners.

TWBIR ID: RF-MT0003

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Comments N/A

TWBIR ID: RF-MT0007

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W010	**Handling**	CH	**Stream Name**	Bypass Sludge Bldg 374/TRM			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3190

EPA Codes

As-Generated
F001, F002, F005, F006, F007, F009

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	217.70	217.70	217.70
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	196.00	196.00	196.00
Cement (Solidified)	130.60	130.60	130.60
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	64.80		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Pollution Control or Waste Treatment Process

TRUCON Codes

111

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.03E+00
Pu-239	5.16E-01
Pu-240	1.18E-01
Pu-241	2.81E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0007

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.8	0.0	0.0	0.0	0.0	0.8

As-Generated	Stored	Projected	Total
	0.8	0.0	0.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8

Final Form	Stored	Projected	Total
	0.8	0.0	0.8

TWBIR ID: RF-MT0007

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is a solid cemented sludge. It could have small amounts of free liquids in the bottom of the container.
Waste Stream Source Description	Aqueous sludge wastes assigned IDCs 001 and 800 were generated by the high-level aqueous waste treatment system in Building 774. IDC 001 was replaced by IDC 800 in 1986. A two-stage basic waste treatment, precipitation, and filtration process generates IDCs 001 and 800 aqueous sludge. Acidic wastes are neutralized with sodium hydroxide in stage one. Ferric sulfate and Purifloc flocculant are added to the neutralized waste (containing metal ions) to precipitate the sludge prior to filtration. In stage two, ferric sulfate, magnesium sulfate, calcium chloride, and Purifloc flocculant are added to basic wastes during the two-stage treatment to precipitate sludge. The sludge slurry from the acidic and basic waste treatment is drawn through a diatomite filter media on a rotating drum filter to trap the solids. The filter media and sludge are continuously scraped off the drum filter and co-fed into a 55-gallon drum with additional diatomite and Portland cement making up the solidification process. No mechanical mixing of the sludge and cement is performed. Prior to 1979, IDC 001 consisted of sludge from the first-stage treatment only. When the first- and second-stage sludges were packaged separately, two vacuum filters were used. From 1979 to 1986, IDC 001 was a combination of the sludges from the first- and second-stage treatment processes. The sludge was produced chemically in the same fashion aqueous waste was treated to produce IDC 800 sludge. The solidification process for IDC 001 differs from the IDC 800 method of adding cement and diatomite as the sludge collects. Portland cement was added to the bottom of the IDC 001 drum prior to placing the sludge in the drum. In some cases additional Portland cement was added on top of the sludge. Prior to September 1984, Building 774 accepted many aqueous process wastes from other buildings. These wastes, now piped to Building 374, were treated as described above. The accepted wastes included aqueous waste from Buildings 122, 123, 444, 559, 707, 776, 778, 779, 865, 881, 883, 889. After August 1984 and the start-up of the Building 374 Precipitation Process, only waste piped from Building 771 (stream condensate, scrubber waste, ion column effluent, and process waste sinks), waste in containers from various buildings, and wastes generated within Building 774 (silver recovery effluent, seal liquid, and floor washdown) were accepted. From 1986 through 1989, the treatment process treated from 150,000 gallons to over 500,000 gallons per year and generated 2,700 drums of IDCs and 800 sludge. See Solidified Bypass Sludge/LLM for detailed descriptions of IDCs 007, 803, and 807.
Current Container Comments	N/A
EPA Comments	All waste with D001, D002, and D003 codes will be processed or repackaged prior to shipment to WIPP per Geoff Asmus. According to the Building 774 Second-Stage Treatment Log (January 1981 to October 1989), prior to September 1984, the Building 774 aqueous waste treatment system received waste streams that are treated in the Building 374 Liquid Waste Treatment Facility. These streams affected the characterization of Building 774 solidified sludge until September 1985. The choice of the transition date of September 1984 is discussed in detail under the Subpopulation 55A discussion in the Backlog Baseline Book prepared by Rocky Flats. Information contained in the November 1992 WSRIC Valve Vaults Book has been used to characterize waste streams treated in Building 774 prior to September 1984. The Valve Vaults book describes the process waste sent to Building 374 for treatment. The book was used because it is the only reference that provides detailed characterization information on waste that was sent to Building 774. Other references and interviews have been used to enhance or add to this information as it relates to the waste form.
Management Comments	N/A
Acceptance Comments	RFP has assumed this waste to be LDR based on process knowledge characterization and limited analytical data.

TWBIR ID: RF-MT0007

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

	1. Basis for determining LDR storage prohibition status is based pirmarily on process knowledge. WASTE_ PACK: Waste is packaged in 55 gallon DOT 7A Type A Drums. The drums are lined with one rigid polyethylene liner and two bag liners.
Final Form Comments	N/A

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TWBIR ID: RF-MT0089

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-MT0089	**Handling**	CH	**Stream Name**	N/A			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3229

EPA Codes

As-Generated
D007

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	701.69	701.69	701.69
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.43		
Packaging Material, Plastic	17.18		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N/A
PCBs:	N/A
Source:	N/A

TRUCON Codes

126

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	3.88E-03
Pu-239	8.27E-02
Pu-240	1.89E-02
Pu-241	4.84E-01
Pu-242	2.40E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0089

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8802 Can	0.0	0.0	0.0	0.0	0.0	0.0
8804 Can	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated	Stored	0.0	Projected	0.0	Total	0.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RF-MT0089

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	N/A
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a mixed waste or residue, (i.e., RF-MRXXXX, or RF-MTXXXX), but has been recharacterized as non-mixed waste.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0090

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-MT0090	**Handling**	CH	**Stream Name**	N/A			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
D005, D006, D007, D008, D010, D011

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	4.30	4.30	4.30
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	5.73	5.73	5.73
Other Inorganic Materials	8.59	8.59	8.59
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	1.15	1.15	1.15
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.22		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N/A
PCBs:	N/A
Source:	N/A

TRUCON Codes

130

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.26E+00
Pu-238	9.16E-01
Pu-239	3.54E+01
Pu-240	8.04E+00
Pu-241	8.07E+01
Pu-242	4.91E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0090

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
POC / 55 gallon	2.5	0.0	0.0	0.0	0.0	2.5

As-Generated	Stored	Projected	Total
	2.5	0.0	2.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	2.5	0.0	0.0	0.0	0.0	2.5

Final Form	Stored	Projected	Total
	2.5	0.0	2.5

TWBIR ID: RF-MT0090

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Plutonium tetrafluoride that meets the chemical standards for plutonium fluoride reduction. The material is a pink to brown colored powdered solid, found as a uniform powder or in clumps."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a mixed waste or residue, (i.e., RF-MRXXXX, or RF-MTXXXX), but has been recharacterized as non-mixed waste.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0091

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-MT0091	**Handling**	CH	**Stream Name**	N/A			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
D005, D006, D007, D008, D010, D011

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	4.61	4.30	7.16
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	5.73	5.73	5.73
Other Inorganic Materials	8.43	5.73	9.55
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	1.15	1.15	1.15
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	524.11		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N/A
PCBs:	N/A
Source:	N/A

TRUCON Codes

130

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.49E+00
Pu-238	1.56E+00
Pu-239	3.98E+01
Pu-240	9.10E+00
Pu-241	1.12E+02
Pu-242	5.64E-04
U-234	2.06E-05
U-235	6.63E-07
U-238	5.87E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0091

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8801 Can	0.0	0.0	0.0	0.0	0.0	0.0
8802 Can	0.0	0.0	0.0	0.0	0.0	0.0
POC / 55 gallon	148.1	0.0	0.0	0.0	0.0	148.1
Slip Lid Can	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated	Stored	148.1	Projected	0.0	Total	148.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
55 Gallon POCs	148.4	0.0	0.0	0.0	0.0	148.4

Final Form	Stored	148.8	Projected	0.0	Total	148.8

TWBIR ID: RF-MT0091

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Plutonium tetrafluoride that has become contaminated and does not meet the chemical standards for plutonium fluoride reduction. The material is a beige or pink to brown colored powdered solid, found as a uniform powder or in clumps."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a mixed waste or residue, (i.e., RF-MRXXXX, or RF-MTXXXX), but has been recharacterized as non-mixed waste.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0092

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-MT0092	**Handling**	CH	**Stream Name**	N/A			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
D005, D006, D007, D008, D010, D011

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	4.30	4.30	4.30
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	5.73	5.73	5.73
Other Inorganic Materials	8.91	8.12	9.55
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	1.15	1.15	1.15
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.22		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N/A
PCBs:	N/A
Source:	N/A

TRUCON Codes

130

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.57E+00
Pu-238	1.36E+00
Pu-239	3.95E+01
Pu-240	9.19E+00
Pu-241	1.07E+02
Pu-242	5.87E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0092

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
POC / 55 gallon	21.4	0.0	0.0	0.0	0.0	21.4

As-Generated	Stored	Projected	Total
	21.4	0.0	21.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	21.5	0.0	0.0	0.0	0.0	21.5

Final Form	Stored	Projected	Total
	21.5	0.0	21.5

TWBIR ID: RF-MT0092

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Solids recovered from filtration of solution containing non-specification fluoride dissolved in heated nitric acid. The material is a beige or pink to brown colored powdered solid, found as a uniform powder or in clumps."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a mixed waste or residue, (i.e., RF-MRXXXX, or RF-MTXXXX), but has been recharacterized as non-mixed waste.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0093

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W096	**Handling**	CH	**Stream Name**	Process Residues/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
D005, D006, D007, D008, D010, D011

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	4.30	4.30	4.30
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	5.73	5.73	5.73
Other Inorganic Materials	8.95	7.64	11.46
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	1.15	1.15	1.15
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.22		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Recovery Operations

TRUCON Codes

130

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.28E+00
Np-237	3.10E-05
Pu-238	1.29E+00
Pu-239	3.92E+01
Pu-240	9.28E+00
Pu-241	8.40E+01
Pu-242	6.16E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0093

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
POC / 55 gallon	23.3	0.0	0.0	0.0	0.0	23.3

As-Generated	Stored	Projected	Total
	23.3	0.0	23.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	23.3	0.0	0.0	0.0	0.0	23.3

Final Form	Stored	Projected	Total
	23.3	0.0	23.3

TWBIR ID: RF-MT0093

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Sodium fluoride pellets contaminated with plutonium hexafluoride. This material is beige or pink to brown colored pellets with similarly colored powdered solids. It may be found as uniform pellets, in degraded clumps, or in a powder"
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	EPA hazardous waste numbers are assigned to this waste stream based on process knowledge and confirmed by WIPP characterization sampling and analysis.
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0097

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-MT0097	**Handling**	CH	**Stream Name**	N/A			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
D005, D006, D007, D008, D010, D011

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	11.46	11.46	11.46
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	5.73	5.73	5.73
Other Inorganic Materials	6.68	6.68	6.68
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	1.15	1.15	1.15
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.22		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N/A
PCBs:	N/A
Source:	N/A

TRUCON Codes

130

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.00E+00
Pu-238	9.08E-01
Pu-239	3.28E+01
Pu-240	6.74E+00
Pu-241	7.34E+01
Pu-242	3.37E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0097

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
POC / 55 gallon	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated	Stored	Projected	Total
	1.5	0.0	1.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	1.5	0.0	0.0	0.0	0.0	1.5

Final Form	Stored	Projected	Total
	1.5	0.0	1.5

TWBIR ID: RF-MT0097

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	There is conflicting information as to the actual contents of this fluoride material. One source indicates it is impure fluoride (IDC 091) while another source indicates it is impure fluoride heel (IDC 092). This IDC may include a mixture of several fluoride IDCs.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a mixed waste or residue, (i.e., RF-MRXXXX, or RF-MTXXXX), but has been recharacterized as non-mixed waste.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0099

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-MT0099	**Handling**	CH	**Stream Name**	N/A			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3229

EPA Codes

As-Generated
D007

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	701.69	701.69	701.69
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.43		
Packaging Material, Plastic	17.18		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N/A
PCBs:	N/A
Source:	N/A

TRUCON Codes

126

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	3.88E-03
Pu-239	8.27E-02
Pu-240	1.89E-02
Pu-241	4.84E-01
Pu-242	2.40E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0099

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8802 Can	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated	Stored	Projected	Total
	0.0	0.0	0.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	Projected	Total
	0.6	0.0	0.6

TWBIR ID: RF-MT0099

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	N/A
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a mixed waste or residue, (i.e., RF-MRXXXX, or RF-MTXXXX), but has been recharacterized as non-mixed waste.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0290

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-MT0290	**Handling**	CH	**Stream Name**	N/A			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3129

EPA Codes

As-Generated
D006, D007, D008, F001, F002, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	7.16	7.16	7.16
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	8.59	8.59	8.59
Solidified, Inorganic Matrix	10.50	10.50	10.50
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.22		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N/A
PCBs:	N/A
Source:	N/A

TRUCON Codes

111

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	3.17E-01
Pu-239	6.75E+00
Pu-240	1.55E+00
Pu-241	3.95E+01
Pu-242	1.96E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0290

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
POC / 55 gallon	18.9	0.0	0.0	0.0	0.0	18.9

As-Generated	Stored	Projected	Total
	18.9	0.0	18.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	19.0	0.0	0.0	0.0	0.0	19.0

Final Form	Stored	Projected	Total
	19.0	0.0	19.0

TWBIR ID: RF-MT0290

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	N/A
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a mixed waste or residue, (i.e., RF-MRXXXX, or RF-MTXXXX), but has been recharacterized as non-mixed waste.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT-0292

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W068	**Handling**	CH	**Stream Name**	Particulate Sludge/TRM	**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	MTRU	**Generator Site**	ZZ	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3129

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, F001, F002, F003, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	11.89	11.89	11.89
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	15.85	15.85	15.85
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	368.46	368.46	368.46
Soils	0.00	0.00	0.00
Packaging Material, Steel	155.38		
Packaging Material, Plastic	32.09		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

111
RF111

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	3.17E-01
Pu-239	6.75E+00
Pu-240	1.55E+00
Pu-241	3.95E+01
Pu-242	1.96E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT-0292

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8804 Can	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	21.8	0.0	0.0	0.0	0.0	21.8
Drum / 85 gallon	0.6	0.0	0.0	0.0	0.0	0.6
Drum / 85 gallon	0.6	0.0	0.0	0.0	0.0	0.6
POC / 55 gallon	1.0	0.0	0.0	0.0	0.0	1.0
Slip Lid Can	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated	Stored	24.2	Projected	0.0	Total	24.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	22.9	0.0	0.0	0.0	0.0	22.9
55 Gallon POCs	1.0	0.0	0.0	0.0	0.0	1.0

Final Form	Stored	24.0	Projected	0.0	Total	24.0

TWBIR ID: RF-MT-0292

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consists of sludge type material. It is a semi-fluid material. Some of it has had cement added to it to try to solidify it.
Waste Stream Source Description	Item Description Code 292-Incinerator Sludge IDC 292 was intended for incinerator sludge from the recovery incinerator in Building 771. IDC 292 materials were reassessed under Waste Form 1, Incinerator Ash. However, there is one box WEMS incorrectly assigned this IDC. According to the waste-box log sheet dated October 14, 1987, the box contains Electrochemical Milling Sludge generated in Building 881. This operation generated sludge from the milling of various metals including stainless steel. It was indicated that no cyanides were used in the ECM operations in Building 881. The IDC for this box should be changed to 299. Item Description Code 299-Miscellaneous Sludge This IDC has been used for sludges that were not accurately categorized as IDC 290 or 340 and could have been generated in any plutonium processing building. However, the backlog miscellaneous sludge was generated in Building 771 during the processing of residues, in Building 371 in the analytical laboratory, and in Building 883 by the Rolling Process. Process pipe sludge, sludge dissolution heel, and filter plenum sludge from Building 771 were processed through nitric acid dissolution and sparging. Soil and sludge samples from around the site were analyzed in Building 371, and the waste was stored for processing. IDC 299 materials generated in Building 883 include quench sludge and uranium oxide sludge from the Rolling Process. This group also includes one container of electrochemical milling sludge generated in Building 881 in October 1987. The container is assigned IDC 292. Item Description Code 372-Grit This IDC was generated by grit blasting operations in Building 371 (primarily for cleaning steel and iron) and Building 777 in the Machining and Coating processes (primarily cleaning shields). A variety of materials were used for the grit, including iron shot, walnut shells, glass beads, and ceramic beads. The majority of the grit is thought to be iron shot ranging in size from fines to irregular particles. There were apparently no other RCRA-regulated metals involved in the grit blasting. There is one drum of IDC 372 shown in WEMS as being generated in Building 371. However, no grit blasting operation could be identified in that building. Item Description Code 823-Cemented Sludge IDC 823, cemented miscellaneous sludge, was generated when sludge designated as inorganic particulate and sludgy material that was below the economic discard limit (EDL) was placed in 1-gallon paint cans and covered with Portland cement or mixed with cement into a block. The first scenario was conducted in Building 771 and the second in Building 371. This could have included IDCs 290-299 and was done to meet the Waste Isolation Pilot Plant (WIPP) waste acceptance criteria. The material came primarily from Nash pumps in Building 771 and included vacuum grease and oily sludge. One drum of the material was apparently generated when the pit in front of Building 707 was cleaned out. However, the contents of the pit sludge could not be ascertained. One drum was generated in the Size Reduction Vault in Building 776. Six drums were generated in Building 774 and are stored in Building 371. Drum-specific information was requested but was not received. The drums from Building 559 are incorrectly assigned IDC 823 in WEMS. The drums are stored in Building 771 and are labeled with IDC 863. It appears that IDC 823 was entered incorrectly in WEMS. Therefore, these drums should be changed to IDC 863 in WEMS. This waste form is generated from Facility/Equipment Operation, Maintenance, Analytical Laboratories, R&D Laboratories, D&D, and limited Emergency Response actions.
Current Container Comments	N/A
EPA Comments	All waste with D001, D002, and D003 codes will be processed or repackaged prior to shipment to WIPP per Geoff Asmus. Subpopulation 1B consists of approximately 85, IDC 292 incinerator sludge containers. EPA Codes D002, D004-D011, F001, F002, F003, and F005 were assigned to this subpopulation based on the characterization of incinerator feed materials. Based on the characterization of the feed, alcohols, glycols,

halogenated solvents, and metals may have been introduced into the incinerator. Because the specific sources of the incinerator feed cannot be determined at this time, it has been assumed that the process could have accepted any of the combustible, plastic, or filter wastes currently contained in the inventory that were generated during the time the incinerator was operational.

Management Comments N/A

Acceptance Comments

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: The waste is packaged in 55-gallon drums with multiple bag liners. These are typically smaller containers within the drums.

Final Form Comments N/A

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TWBIR ID: RF-MT-0299

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W068	**Handling**	CH	**Stream Name**	Particulate Sludge/TRM	**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3129

EPA Codes

As-Generated
D006, D007, D008, D011, F001, F002, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	7.16	7.16	7.16
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	8.59	8.59	8.59
Solidified, Inorganic Matrix	10.50	10.50	10.50
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.43		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

111, 112

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.67E+01
Pu-238	6.28E+00
Pu-239	1.34E+02
Pu-240	3.06E+01
Pu-241	7.83E+02
Pu-242	3.87E-03
U-238	1.22E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT-0299

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8804 Can	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	16.0	0.0	0.0	0.0	0.0	16.0
POC / 55 gallon	14.8	0.0	0.0	0.0	0.0	14.8

As-Generated	Stored	30.8	Projected	0.0	Total	30.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	16.3	0.0	0.0	0.0	0.0	16.3
55 Gallon POCs	14.8	0.0	0.0	0.0	0.0	14.8

Final Form	Stored	31.1	Projected	0.0	Total	31.1

TWBIR ID: RF-MT-0299

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consists of sludge type material. It is a semi-fluid material. Some of it has had cement added to it to try to solidify it.
Waste Stream Source Description	Item Description Code 292-Incinerator Sludge IDC 292 was intended for incinerator sludge from the recovery incinerator in Building 771. IDC 292 materials were reassessed under Waste Form 1, Incinerator Ash. However, there is one box WEMS incorrectly assigned this IDC. According to the waste-box log sheet dated October 14, 1987, the box contains Electrochemical Milling Sludge generated in Building 881. This operation generated sludge from the milling of various metals including stainless steel. It was indicated that no cyanides were used in the ECM operations in Building 881. The IDC for this box should be changed to 299. Item Description Code 299-Miscellaneous Sludge This IDC has been used for sludges that were not accurately categorized as IDC 290 or 340 and could have been generated in any plutonium processing building. However, the backlog miscellaneous sludge was generated in Building 771 during the processing of residues, in Building 371 in the analytical laboratory, and in Building 883 by the Rolling Process. Process pipe sludge, sludge dissolution heel, and filter plenum sludge from Building 771 were processed through nitric acid dissolution and sparging. Soil and sludge samples from around the site were analyzed in Building 371, and the waste was stored for processing. IDC 299 materials generated in Building 883 include quench sludge and uranium oxide sludge from the Rolling Process. This group also includes one container of electrochemical milling sludge generated in Building 881 in October 1987. The container is assigned IDC 292. Item Description Code 372-Grit This IDC was generated by grit blasting operations in Building 371 (primarily for cleaning steel and iron) and Building 777 in the Machining and Coating processes (primarily cleaning shields). A variety of materials were used for the grit, including iron shot, walnut shells, glass beads, and ceramic beads. The majority of the grit is thought to be iron shot ranging in size from fines to irregular particles. There were apparently no other RCRA-regulated metals involved in the grit blasting. There is one drum of IDC 372 shown in WEMS as being generated in Building 371. However, no grit blasting operation could be identified in that building. Item Description Code 823-Cemented Sludge IDC 823, cemented miscellaneous sludge, was generated when sludge designated as inorganic particulate and sludgy material that was below the economic discard limit (EDL) was placed in 1-gallon paint cans and covered with Portland cement or mixed with cement into a block. The first scenario was conducted in Building 771 and the second in Building 371. This could have included IDCs 290-299 and was done to meet the Waste Isolation Pilot Plant (WIPP) waste acceptance criteria. The material came primarily from Nash pumps in Building 771 and included vacuum grease and oily sludge. One drum of the material was apparently generated when the pit in front of Building 707 was cleaned out. However, the contents of the pit sludge could not be ascertained. One drum was generated in the Size Reduction Vault in Building 776. Six drums were generated in Building 774 and are stored in Building 371. Drum-specific information was requested but was not received. The drums from Building 559 are incorrectly assigned IDC 823 in WEMS. The drums are stored in Building 771 and are labeled with IDC 863. It appears that IDC 823 was entered incorrectly in WEMS. Therefore, these drums should be changed to IDC 863 in WEMS. This waste form is generated from Facility/Equipment Operation, Maintenance, Analytical Laboratories, R&D Laboratories, D&D, and limited Emergency Response actions.
Current Container Comments	N/A
EPA Comments	Subpopulation 46GA includes 15 containers generated in the Building 371 analytical labs. The WSRIC book for the building includes no IDC 299 waste streams. Until shortly after September 1993, the WSRIC book for Building 371 included a process output numbered 371-4-18 (Low-level Soil Sludges) that was assigned EPA Codes D002-D011, D018, D019, D035, D040, F001, F002, F005-F007, and F009. The current WSRIC book for Building 371 includes a new

stream, 371-4-22 (Low-Level Soil Sludges), that replaced number 371-4-18, and that is characterized only as characteristic waste with EPA Waste Codes D004-D011. The WEMS characterization for this group is D007. It is assumed, therefore, that since the containers in this group were generated from 1984 to 1992, the materials are best assigned the same waste codes as the 371-4-18 stream cited above, with the exception of the plating waste codes (F006, F007, and F009), and the reactivity code (D003), because it is known that no plating waste was generated in Building 371 labs and that no reactive wastes were generated. Most likely, all 15 containers do not contain wastes that are assigned all of the codes. It is also possible that some of the remaining waste codes can be removed based on EPA guidance concerning the sample exclusion cited in Section 261.4 (d). However, it could not be determined from personnel in Building 371 whether waste stream 371-4-18 was characterized as toxic for benzene (D018), carbon tetrachloride (D019), methyl ethyl ketone (D035), and trichloroethylene (D040) based on the double listing policy previously used or if the codes were assigned because the waste actually exhibits the characteristic of toxicity for those organics. Nor could it be confirmed whether the F-listed solvent codes were assigned because the lab felt it was generating listed solvent waste or if the codes were assigned because the lab was analyzing the F-listed solvent waste. Therefore, until these issues can be resolved, this subpopulation is characterized as hazardous and assigned EPA Waste Codes D002, D004-D011, D018, D019, D035, D040, F002, and F005. These containers should be analyzed unless data exist that can confirm or refute this characterization. The containers are all LDR regulated.

Subpopulation 46GB includes 11 containers generated in miscellaneous residue processing. All drums are characterized as hazardous and assigned EPA Waste Code D007 (chromium) in WEMS. The WSRIC book dated September 1993 includes process outputs numbered 771-12-14, 771-12-16, and 771-27-7, sludge dissolution heel, pipe sludge, and filter plenum sludge, respectively. These WSRIC outputs were generated by the Miscellaneous Residue Processing and Plenums processes. The sludges generated by residue processing are characterized as D007 wastes because the corrosive liquids the sludges came from leached chromium from the insides of stainless-steel transfer lines. The plenum sludge is characterized as nonhazardous. According to NMC, these streams were being generated during the period from 1984 to 1989, which would coincide with dates of generation for Subpopulation GB. According to NMC, the drums of IDC 299 were most likely generated by the residue processing operation. Therefore, the group is characterized as hazardous and assigned waste code D007 until analytical data are collected that prove otherwise. The containers are also LDR regulated.

Management Comments N/A

Acceptance Comments

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: The waste is packaged in 55-gallon drums with multiple bag liners. These are typically smaller containers within the drums.

Final Form Comments N/A

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TWBIR ID: RF-MT0302

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W012	**Handling**	CH	**Stream Name**	Combustibles/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5313

EPA Codes

As-Generated
D005, D008

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	5.28	0.48	41.43
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	193.70	42.96	304.54
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.44		
Packaging Material, Plastic	25.78		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	General Building Waste and Decommissioning

TRUCON Codes

121

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.28E-02
Np-237	3.21E-07
Pu-238	1.85E-02
Pu-239	4.30E-01
Pu-240	9.86E-02
Pu-241	2.27E+00
Pu-242	1.12E-05
U-234	4.03E-05
U-235	1.30E-06
U-238	1.15E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0302

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	Projected	Total
	0.4	0.0	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	Projected	Total
	0.4	0.0	0.4

TWBIR ID: RF-MT0302

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"This waste stream consists of Benelex and Plexiglas used for radiation shielding around gloveboxes, tanks, glovebox windows, and equipment enclosures."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	EPA hazardous waste numbers are assigned to this waste stream based on process knowledge.
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0320

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W037	**Handling**	CH	**Stream Name**	Heavy Metal (non-SS)/TRM			**Inventory Date**	9/30/2002
Local ID	IDC 320	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5112

EPA Codes

As-Generated
D008

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	41.91	1.91	144.16
Aluminum-Base Metal/Alloys	4.77	4.77	4.77
Other Metal/Alloys	126.66	11.31	398.10
Other Inorganic Materials	38.31	37.95	38.67
Cellulosics	29.91	25.78	31.98
Rubber	0.00	0.00	0.00
Plastics	19.94	3.01	47.73
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	161.22		
Packaging Material, Plastic	27.70		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

117

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.29E+00
Np-237	1.15E-05
Pu-238	1.13E+00
Pu-239	2.46E+01
Pu-240	5.64E+00
Pu-241	1.35E+02
Pu-242	6.90E-04
U-234	1.76E-06
U-235	5.67E-08
U-238	5.01E-10

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0320

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8802 Can	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	4.8	0.0	0.0	0.0	0.0	4.8
POC / 55 gallon	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	Projected	Total
	5.2	0.0	5.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	6.7	0.0	0.0	0.0	0.0	6.7
55 Gallon POCs	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	Projected	Total
	7.1	0.0	7.1

TWBIR ID: RF-MT0320

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	IDC 320 - Scrap metals which are heavier than iron and steel. Metal above Cu on the periodic table. Mainly used tantalum crucibles.
Waste Stream Source Description	Heavy metals have been produced as by-products of Rocky Flats operations in Buildings 371, 707, 771, 776, 777, 779, and 865; they are identified by IDC 320. The IDC 320 heavy nonspecial source metal was generated in various locations throughout the Rocky Flats and is stored in Resource Conservation and Recovery Act (RCRA) Units 11, 12, 13, 15A, and 20. This IDC includes nonstainless-steel metals that are heavier than iron. Examples of this waste include crucibles, funnels, rods, and process fixtures. These items are made primarily from tantalum, tungsten, and platinum, but some parts could have been manufactured or contaminated with lead if the accumulation start date was prior to 1987. IDC 320 originally included lead. During maintenance operations, the maintenance shop in Building 371 generated heavy metal vessels, instruments, rods, and plates fabricated from tantalum, tungsten, and platinum. The shop generated these items during 4 1/2 years of operation from 1983 until 1988. Of these containers in storage, 19 backlog containers have an EPA Code of D008 (lead); eight of these were produced after 1987. Building 707, Modules A and J, generated heavy metals in its foundry operations. These heavy metals were primarily crucibles and pans used for presampling. These processes generated material during 6 1/2 years of operation from 1985 until 1991. Nine backlog containers have an EPA Code of D008 (lead). The plutonium recovery operations in Building 771 generated leached Oralloy parts consisting of tantalum, tungsten, and platinum. The system generated material during 3 years of operation from 1987 until 1990. Five backlog containers have an EPA Code of D008 (lead); four of these backlog containers were produced after 1987. Building 776, Pyrochemical Processing, generated material during almost three years of operation from 1988 until 1990. This material consists primarily of tantalum crucibles, stirrers, and cans from MSE, salt scrub, and anode heel processes. Eight containers have an EPA Code of D008 (lead). Building 777, the Coatings Laboratory, generated material during a 2-year period of operation from 1988 until 1990. This material consists primarily of various heavy metals used in the research and development of coating technologies. These backlog containers have been associated with lead as a constituent and were produced after 1987. The Residue Treatment Technology Group, Building 779, generated crucibles, stirrers, and other general lab equipment derived from tantalum and tungsten. In Building 779, the Physical Metallurgy Group generated tantalum materials used in casting and cast testing. Additionally, the Surface Analysis Laboratory in Building 779 generated heavy metal samples primarily of depleted uranium (D-38). IDC 320 material was produced by Building 779 operations over a 10-year period from 1981 until 1991. Nine backlog containers have an EPA Code of D008 (lead), six were produced after 1987.
Current Container Comments	N/A
EPA Comments	One subpopulation (25A) was identified based on specific process knowledge and generation date. The EPA Code D008 was assigned to this subpopulation because of contact with known lead products and process association. This subpopulation consists of containers produced before or during 1987. The WEMS database lists the EPA Code D008 for these containers. Because of the generation date, a conservative position has been taken by placing backlog drums with the DOO8 (lead) EPA Code in this subpopulation. The primary buildings of generation were 371, 707, 771, 776, 779. Subpopulation 25B was identified based on specific process knowledge and generation date. At this time, the generation date has been used judiciously in separating and characterizing containers with lead. The EPA Code D008 was assigned to this subpopulation because of contact with known lead products and process association. This subpopulation consists of containers produced before or during 1987. The WEMS database lists the EPA Code D008 for these containers. Because of the generation date, a conservative position has been taken by placing backlog drums with the D008 (lead) EPA Code in this subpopulation. The primary buildings of generation were 371, 707, 771, 776, and 779.
Management Comments	N/A
Acceptance Comments	Future generation is projected beyond 1999.
Final Form Comments	N/A

TWBIR ID: RF-MT0321

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W028	**Handling**	CH	**Stream Name**	Lead/TRM			**Inventory Date**	9/30/2002
Local ID	IDC 321	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Lead/Cadmium Metal	**Waste Matrix Code**	S5112

EPA Codes

As-Generated
D008

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	47.53	2.39	138.19
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	400.76	21.48	1435.84
Other Inorganic Materials	73.60	95.47	95.47
Cellulosics	10.92	4.31	12.89
Rubber	5.72	4.30	10.51
Plastics	16.62	5.25	53.46
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	135.78		
Packaging Material, Plastic	20.85		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

117

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.24E-01
Np-237	9.89E-06
Pu-238	5.72E-02
Pu-239	1.35E+00
Pu-240	3.05E-01
Pu-241	6.43E+00
Pu-242	4.13E-05
U-234	5.81E-05
U-235	1.87E-06
U-238	1.66E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0321

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	19.1	2.1	0.0	0.0	0.0	21.2
Drum / 85 gallon	4.2	0.0	0.0	0.0	0.0	4.2
Standard Waste Box	1.9	5.7	0.0	0.0	0.0	7.6

As-Generated — Stored: 25.2 | Projected: 7.8 | Total: 33.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	19.2	0.0	0.0	0.0	0.0	21.3
85 Gallon Drum	4.2	0.0	0.0	0.0	0.0	4.2
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	7.6

Final Form — Stored: 25.3 | Projected: 7.8 | Total: 33.0

TWBIR ID: RF-MT0321

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste form consists of metallic lead in the form of sheets, bricks, or tape. Physical form: solid Currently, no analytical data for lead waste is available. Process knowledge is the basis for characterization of this waste form. Lead waste (IDC 321) from non-specific sources is believed to have only lead (D008) as a hazardous constituent. In numerous tests of elemental lead, EP toxicity values exceed those listed in Table 1, 40 CFR 261.24. It is assumed that IDC 321 would also exceed EP toxicity limits for lead.
Waste Stream Source Description	Transuranic lead was generated at a number of locations throughout Rocky Flats and includes IDC 321. The as-low-as-reasonably- achievable (ALARA) principle requires that the exposure of workers to radiation be kept "as low as reasonable achievable." In support of this principle, selected components and surfaces of gloveboxes enclosing materials that generate elevated levels of penetrating radiation (primarily gamma radiation) are commonly covered with metallic lead sheeting. The lead serves to attenuate the radiation dose received by employees working in the glovebox or in proximity to the glovebox. Lead waste (IDC 321) components are generally composed of lead bricks, lead shielding, and lead tape. The lead or lead-covered components may become waste due to replacement, modification, or decommissioning activities. The dates of generation for IDC 321 range from August 15, 1986 to March 1, 1994. The lead waste form is not a by-product of any process routinely performed at Rocky Flats. According to WSRIC Building Books, lead is most commonly generated as a result of maintenance activities. The lead waste is generally composed of lead shielding, scrap lead metal, and lead tape. The lead waste is collected in standard waste drums. The lead waste form was generated in Buildings 371, 559, 707, 771, 776, 777, and 779. This stream is generated from Facility Operations, Analytical Laboratories, and R&D Laboratories.
Current Container Comments	N/A
EPA Comments	Drums Containing Scrap Lead Metal and Lead Shielding Scrap lead metal and lead shielding exhibit the characteristic of toxicity for lead (D008). Subpopulation 8A was identified based on specific process knowledge and analytical results from elemental lead waste. According to WEMS, WSRIC, drums reports, and internal correspondence, the waste primarily consists of lead bricks, lead shielding, and scrap lead metal. Although some of waste could have come in contact with solvents, it is not considered to be a listed waste if the metal was wiped down with solvents for decontamination or paint stripping purposes, or if it was generated by the decommissioning of gloveboxes or other container-like apparatuses. Additional EPA codes are assigned to the waste based on process knowledge.
Management Comments	N/A
Acceptance Comments	RFP has determined this waste form to be LDR waste based on process knowledge available for TRU lead waste (IDC 321) and the fact that elemental lead exceeds values for EP toxicity pursuant to 40 CFR 261 24. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: This waste is packaged in 55-gallon drums lined with a fiberboard liner and two polyethylene bag liners.
Final Form Comments	N/A

TWBIR ID: RF-MT-0328

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W066	**Handling**	CH	**Stream Name**	Filters & media/TRM			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, F001, F002, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	4.77	4.77	4.77
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.57		
Packaging Material, Plastic	32.46		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

119

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.59E-01
Np-237	3.98E-06
Pu-238	8.83E-02
Pu-239	1.88E+00
Pu-240	4.31E-01
Pu-241	1.10E+01
Pu-242	5.44E-05
U-234	1.04E-04
U-235	3.36E-06
U-238	2.98E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT-0328

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	1.0	1.0	0.0	0.0	0.0	2.1

As-Generated	Stored	1.0	Projected	1.0	Total	2.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.0	0.0	0.0	0.0	0.0	2.1

Final Form	Stored	1.0	Projected	1.0	Total	2.1

TWBIR ID: RF-MT-0328

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description 328 - Flu-Flo filters from the recovery incineration, building 771. Mixed Waste.

Waste Stream Source Description Item Description Code 328-Ful-Flo Filters From Building 771 Incinerator

These Ful-Flo filters are in-line cartridge filters used to remove particulates from specific fluid streams in Building 771.

During normal process operations, IDC 328 Ful-Flo filters in the backlog population were used to filter particulates from the incinerator fume scrubber system in Building 771. These filters were used for the filtration of caustic solutions; therefore, they are contaminated with bases and may contain free liquids.

During normal process operations, IDC 331 Ful-Flo filters in this backlog population were used to filter particulates from liquid waste streams in Buildings 371, 707, 771, 776, 777, and 779. These waste streams were primarily from filtration of caustic solutions in Building 371, the carbon tetrachloride system and oil systems, and from filtration of water and developer in Building 707. In Building 771, the primary waste streams filtered were anion column feed, potassium hydroxide, nitrate feed, spent nitric acid and hydrofluoric acid from the scrubber, eluate and effluent exiting the ion-exchange columns, floor pick-up solution were filtered in Building 776. In Buildings 777 and 779, Ful-Flo filters were used in the carbon tetrachloride system for purification of Freon TF and for filtration of incoming waters.

Typically, Ful-Flo filters were placed on drying racks pending bag-out of a glovebox. Filters were not always dried before removal from the glovebox. Filters were then "bagged out" of the glovebox and placed in a second layer of plastic. Next, the filters were placed in a "Poly bottle" or "Clam Shell" (hard plastic container), then placed in a double-lined drum.

Item Description Code-331 Ful-Flo filters Not From Incinerator

These Ful-Flo filters are in-line cartridge filters used throughout Rocky Flats to remove particulates from fluid streams and typically filter down to 5,1, and 0.5 micron-sized particulates. Ful-Flo filters are used in various liquid systems that include nitric- and chloride-acid systems, such as those found in plutonium recovery operations; caustic systems, such as those found in utilities scrubbing; solvent systems using carbon tetrachloride in machining operations; water systems, such as steam cleaning; and condensate collection. These filters are also used in lubricant oil filtration.

Ful-Flo filters are poly-fiber-wound cartridges, about 10" long by 3.5" in diameter. Other fiber filters, such as R-6 pads, may be included in this IDC. R-6 pads are cloth filters, about sixteen inches in diameter, used to filter solids from nitric acid solutions. Therefore, backlog material in this IDC cannot be considered homogeneous. Filter elements are produced by combining a media blanket and spirally wound matrix yarn on an inner core. The filter elements might have a polypropylene cap on one end. Both the media blanket and matrix yarn can be cotton or polypropylene. The inner core material can be constructed of polypropylene, tinned steel, or stainless steel. Warehouse data from Rocky Flats indicate that the inner-core material is polypropylene.

During normal process operations, IDC 331 Ful-Flo filters in this backlog population were used to filter particulates from liquid waste streams in Buildings 371, 707, 771, 776, 777, and 779. These waste streams were primarily from filtration of caustic solutions in Building 371, the carbon tetrachloride system and oil systems, and from filtration of water and developer in Building 707. In Building 771, the primary waste streams filtered were anion column feed, potassium hydroxide, nitrate feed, spent nitric acid and hydrofluoric acid from the scrubber, eluate and effluent exiting the ion-exchange columns, floor pick-up solution, steam condensate, and miscellaneous aqueous solutions. Hydraulic oil and floor pick-up solution were filtered in Building 776. In Buildings 777 and 779, Ful-Flo filters were used in the carbon tetrachloride system for purification of Freon TF and for filtration of incoming waters.

Typically, Ful-Flo filters were placed on drying racks pending bag-out of a glovebox. Filters were not always dried before removal from the glovebox. Filters were then "bagged out'"of the glovebox and placed in a second layer of plastic. Next, the filters were placed in a "Poly Bottle" or "Clam Shell" (hard plastic container), then placed in a double-lined drum.

These Ful-Flo filters may be contaminated with acids, bases, carbon tetrachloride, chromium, Freon, and oil. They may contain relatively small amounts of free liquids.

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Item Description Code 335-HEPA Glovebox Filters, Not Acid Contaminated

The material in this IDC is High Efficiency Particulate Air (HEPA) filters used in ventilation systems at Rocky Flats. HEPA filters have been and are used in all of the buildings which contain plutonium processing activities. HEPA filters are used on gloveboxes and in large filter plenums that filter the room air.

Used filters were removed from their position in the ventilation system and packaged for further processing. The filters used on gloveboxes (nominal 8" x 8" x 5") were identified as IDC 335 if they were not acid contaminated.

Item Description Code 342-HEPA Glovebox Filters, Acid Contaminated

HEPA filters are used on all gloveboxes to remove particulates from the atmosphere exiting the glovebox to the plenum exhaust system. The filters in IDC 342 are from gloveboxes with atmospheres that could cause the filters to be contaminated with acids or bases used in chemical processing.

Item Description Code 491-Plenum Prefilters

The material in this IDC is a variety of plenum prefilters used in the ventilation systems at Rocky Flats. Plenum prefilters have been and are used in all of the buildings that contain plutonium processing activities. These prefilters are used in large plenums that filter the room and glovebox air. Used prefilters were removed from their position in the ventilation system and packaged for further processing.

IDC 491 plenum prefilters range from furnace-type filters to pleated fiberglass filters and can be as large as 24" x 24" x 12". The filter medium consists of fiberglass packing or paper which may be more or less dense, depending on filtering needs. Wire mesh can be used to hold the media in place. The frame material for these prefilters is cardboard.

Item Description Code 492-HEPA Filters (24" x 24"), Acid Contaminated

The material in this IDC is HEPA filters used in the ventilation systems at Rocky Flats. HEPA filters have been and are used in all of the buildings which contain plutonium processing activities. HEPA filters are used on gloveboxes and in large plenums that filter the room and glovebox air.

Used filters were removed from their position in the ventilation system and packaged for further processing. The larger-sized filters used in filters plenums were identified and packaged as IDC 492 if acid contaminated.

IDC 492 HEPA filters (24" x 24"), acid contaminated, are large HEPA filters (nominal 24" x 24" x 5" or 24" x 24" x 12") that were used in filter plenum racks. These filters consist of filter media contained within a wooden or metal frame.

This waste form is generated from Facility/Equipment Operation, Maintenance, Analytical Laboratories, R&D Laboratories, D&D, and limited Emergency Response actions.

Current Container Comments N/A

EPA Comments All waste with D001, D002, and D003 codes will be processed or repackaged prior to shipment to WIPP per Geoff Asmus.
Ful-Flo filters from various buildings are also segregated based on their generation prefixes. The generation prefix corresponds to a Material Balance Account (MBA). Specific gloveboxes in Building 771 have been identified as having nitric acid spray exposure such that "crystals" of nitrate salts have been reported to have formed on the filters causing them to meet the definition of a DOT oxidizer (EG&G 1993d). These gloveboxes were correlated to WSRIC processes and then to generation prefixes to characterize the filters generated from them.

Ful-Flo filters which filtered solutions containing chromium are included in Subpopulations BA, BE, and BH. The EPA Code D007 (chromium) does not apply because the solutions were generated from tanks and are nearly exclusively trivalent chromium. The processes did not generate hexavalent chromium, and

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

these wastes were managed in a non-oxidizing environment (CDH 1994).

Subpopulation 54AA

Subpopulation 54AA consists of all IDC 328 filters. These six drums contain Ful-Flo filters from the Building 771 incinerator. It is assumed that all the drums contain free liquids. Because potassium hydroxide is used to neutralize acidic vapors in the incinerator, the liquid is characterized as RCRA hazardous due to exhibiting the characteristic of corrosivity and assigned EPA Code D002. EPA Codes F001, F002, F003, and F005 are assigned because these codes have been applied to the incinerator ash which has contacted these filters.

Management Comments N/A

Acceptance Comments

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: Filter waste is packaged in 55-gallon drums and metal standard waste boxes.

Final Form Comments N/A

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Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W012	**Handling**	CH	**Stream Name**	Combustibles, dry/TRM	**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D022, D028, D029, D035, D038, D040, D043, F001, F002, F005, F006, F007, F009, P030, P098, P099, P106, U003, U103, U108

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	8.97	1.43	32.94
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	37.23	8.59	159.43
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.52		
Packaging Material, Plastic	22.72		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.43E+00
Np-237	8.47E-06
Pu-238	6.41E-01
Pu-239	2.53E+01
Pu-240	6.22E+00
Pu-241	6.86E+01
Pu-242	4.28E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0330

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	2.9	0.8	0.0	0.0	0.0	3.7
Slip Lid Can	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated	Stored	2.9	Projected	0.8	Total	3.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	3.1	0.0	0.0	0.0	0.0	4.0

Final Form	Stored	3.1	Projected	0.8	Total	4.0

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consits of rags, paper, cloth, coveralls, plastic, rubber, and wood. The waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills. The bulk of these wastes are packaged in 55-gallon drums with one rigid polyethylene liner and several bag liners. In addition, the waste may be packaged in DOT 7A Type A metal boxes which are lined with a fiberboard liner and a PVC liner or standard TRUPACT-II container. The containers are then assayed and transferred to interim status storage areas. These wastes have been shipped to the INEL for stroage in the past. RF-330, 356, 337, 821, 822, 853, 831, 832, 833. Predominantly combustible debris.
Waste Stream Source Description	Combustible wastes were produced by materials-handling and cleanup from production, research and development, laboratory, utility, custodial and maintenance activities. The combustible wastes form includes wipes, gloves, paper and plastics. Item Description 330, Combustibles, Dry IDC 330 is Dry Combustibles. This IDC is dry combustibles such as cloth, paper, and wood. This IDC changes to 821, 831, 851, or 861 at the point of assay, depending on radiological content. Containers of IDC 330 currently in inventory were generated in all buildings handling fissile material. Item Description 336, Combustibles, Wet Wet combustibles are paper, cloth, etc., which contain a discernible amount of moisture and must be drained or wrung out prior to packaging to prevent an accumulation of free liquid. This IDC changes to 822, 832, 852, or 862 at the point of assay. Item Description 337, Plastic (Teflon, PVC, Polyethylene) IDC 337 represents PVC sheeting, poly bottles, supplied-air suits, polyethylene, and other plastics. IDC 337 changes to 825, 833, 853, or 863 at the point of assay. Item Description 821, Combustibles, Dry TRU Waste Dry transuranic combustible wastes, such as paper, cloth, and wood are classified as IDC 821. Item Description 822, Combustibles, Wet TRU Waste Wet combustible transuranic wastes, such as paper, cloth, and wood, which contain a discernible amount of moisture must be drained or wrung out prior to packaging to prevent accumulation of free liquid. These wastes are classified as IDC 822. Item Description 831, Combustibles, Dry, TRU Mixed Waste Dry combustibles such as paper, cloth, wood, etc. This waste has been identified as being low level mixed waste. Item Description 832, Combustibles, Wet, TRU Mixed Waste Wet combustibles such as paper, cloth, and wood which contain a discernible amount of moisture. These combustibles must be drained or wrung prior to packaging to prevent accumulation of free liquid. Item Description 833, Plastic TRU Mixed Waste PVC sheeting, poly bottles, supplied air suits, and other plastics. This waste has been identified as being a low level mixed waste. Item Description 853, Plastic (Teflon, PVC, and Polyethylene)

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

This waste has been identified as being a low level mixed waste, consisting of PVC sheeting, poly bottles, supplied-air suits, and other plastics.

Current Container Comments N/A

EPA Comments A- Process knowledge based upon general knowledge of waste type or source (e.g., there is some probability of a waste constituent being absent or present).

Bounding analytical data have not been compiled in a form that is compatible with this report. This effort has been completed and the results are available in the Final Backlog Baseline Book dated September 26, 1994.

Management Comments N/A

Acceptance Comments GENERAAREA: Numerous locations throughout RFP.GENOPERATI: RECLASS_CO: Rocky Flats assays wastes to determine waste type instead of relying on process knowledge or historical data. For this reason, the potential for reclassification has not been analyzed.CATION: Not applicable OTHER_CHAR: No information available.

RFP has assumed this waste to be LDR based on process knowledge characterization, and one sample analyzed for volatiles in 1988.
1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. Analytical data are limited. WASTE_PACK: This waste is stored in 55 gallon carbon steel drums with one rigid polyethylene liner and several bag liners and standard metal boxes.

Final Form Comments N/A

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W066	**Handling**	CH	**Stream Name**	Filters & media/TRM			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
D006, D008, F001, F002

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	115.41	0.48	280.20
Aluminum-Base Metal/Alloys	119.34	119.34	119.34
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	36.78	1.91	173.75
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	91.22	3.34	406.70
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	3.66	2.86	4.77
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.54		
Packaging Material, Plastic	31.45		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.16E+00
Np-237	1.02E-05
Pu-238	7.93E-01
Pu-239	2.20E+01
Pu-240	4.93E+00
Pu-241	7.91E+01
Pu-242	5.17E-04
U-234	8.43E-04
U-235	2.72E-05
U-238	5.58E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT-0331

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 10 gallon	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	24.3	0.0	0.0	0.0	0.0	24.3

As-Generated	Stored	24.4	Projected	0.0	Total	24.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	24.6	0.0	0.0	0.0	0.0	24.6

Final Form	Stored	24.6	Projected	0.0	Total	24.6

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Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description

331 - Ful-Flo filters used to filter solids from aqueous solutions. Additional required processing undetermined. Because of the potential of liquids in this IDC, it requires a compatibility code when packaging.

Waste Stream Source Description

Item Description Code 328-Ful-Flo Filters From Building 771 Incinerator

These Ful-Flo filters are in-line cartridge filters used to remove particulates from specific fluid streams in Building 771.

During normal process operations, IDC 328 Ful-Flo filters in the backlog population were used to filter particulates from the incinerator fume scrubber system in Building 771. These filters were used for the filtration of caustic solutions; therefore, they are contaminated with bases and may contain free liquids.

During normal process operations, IDC 331 Ful-Flo filters in this backlog population were used to filter particulates from liquid waste streams in Buildings 371, 707, 771, 776, 777, and 779. These waste streams were primarily from filtration of caustic solutions in Building 371, the carbon tetrachloride system and oil systems, and from filtration of water and developer in Building 707. In Building 771, the primary waste streams filtered were anion column feed, potassium hydroxide, nitrate feed, spent nitric acid and hydrofluoric acid from the scrubber, eluate and effluent exiting the ion-exchange columns, floor pick-up solution were filtered in Building 776. In Buildings 777 and 779, Ful-Flo filters were used in the carbon tetrachloride system for purification of Freon TF and for filtration of incoming waters.

Typically, Ful-Flo filters were placed on drying racks pending bag-out of a glovebox. Filters were not always dried before removal from the glovebox. Filters were then "bagged out" of the glovebox and placed in a second layer of plastic. Next, the filters were placed in a "Poly bottle" or "Clam Shell" (hard plastic container), then placed in a double-lined drum.

Item Description Code-331 Ful-Flo filters Not From Incinerator

These Ful-Flo filters are in-line cartridge filters used throughout Rocky Flats to remove particulates from fluid streams and typically filter down to 5,1, and 0.5 micron-sized particulates. Ful-Flo filters are used in various liquid systems that include nitric- and chloride-acid systems, such as those found in plutonium recovery operations; caustic systems, such as those found in utilities scrubbing; solvent systems using carbon tetrachloride in machining operations; water systems, such as steam cleaning; and condensate collection. These filters are also used in lubricant oil filtration.

Ful-Flo filters are poly-fiber-wound cartridges, about 10" long by 3.5" in diameter. Other fiber filters, such as R-6 pads, may be included in this IDC. R-6 pads are cloth filters, about sixteen inches in diameter, used to filter solids from nitric acid solutions. Therefore, backlog material in this IDC cannot be considered homogeneous. Filter elements are produced by combining a media blanket and spirally wound matrix yarn on an inner core. The filter elements might have a polypropylene cap on one end. Both the media blanket and matrix yarn can be cotton or polypropylene. The inner core material can be constructed of polypropylene, tinned steel, or stainless steel. Warehouse data from Rocky Flats indicate that the inner-core material is polypropylene.

During normal process operations, IDC 331 Ful-Flo filters in this backlog population were used to filter particulates from liquid waste streams in Buildings 371, 707, 771, 776, 777, and 779. These waste streams were primarily from filtration of caustic solutions in Building 371, the carbon tetrachloride system and oil systems, and from filtration of water and developer in Building 707. In Building 771, the primary waste streams filtered were anion column feed, potassium hydroxide, nitrate feed, spent nitric acid and hydrofluoric acid from the scrubber, eluate and effluent exiting the ion-exchange columns, floor pick-up solution, steam condensate, and miscellaneous aqueous solutions. Hydraulic oil and floor pick-up solution were filtered in Building 776. In Buildings 777 and 779, Ful-Flo filters were used in the carbon tetrachloride system for purification of Freon TF and for filtration of incoming waters.

Typically, Ful-Flo filters were placed on drying racks pending bag-out of a glovebox. Filters were not always dried before removal from the glovebox. Filters were then "bagged out'"of the glovebox and placed in a second layer of plastic. Next, the filters were placed in a "Poly Bottle" or "Clam Shell" (hard plastic container), then placed in a double-lined drum.

These Ful-Flo filters may be contaminated with acids, bases, carbon tetrachloride, chromium, Freon, and oil. They may contain relatively small amounts of free

liquids.

Item Description Code 335-HEPA Glovebox Filters, Not Acid Contaminated

The material in this IDC is High Efficiency Particulate Air (HEPA) filters used in ventilation systems at Rocky Flats. HEPA filters have been and are used in all of the buildings which contain plutonium processing activities. HEPA filters are used on gloveboxes and in large filter plenums that filter the room air.

Used filters were removed from their position in the ventilation system and packaged for further processing. The filters used on gloveboxes (nominal 8" x 8" x 5") were identified as IDC 335 if they were not acid contaminated.

Item Description Code 342-HEPA Glovebox Filters, Acid Contaminated

HEPA filters are used on all gloveboxes to remove particulates from the atmosphere exiting the glovebox to the plenum exhaust system. The filters in IDC 342 are from gloveboxes with atmospheres that could cause the filters to be contaminated with acids or bases used in chemical processing.

Item Description Code 491-Plenum Prefilters

The material in this IDC is a variety of plenum prefilters used in the ventilation systems at Rocky Flats. Plenum prefilters have been and are used in all of the buildings that contain plutonium processing activities. These prefilters are used in large plenums that filter the room and glovebox air. Used prefilters were removed from their position in the ventilation system and packaged for further processing.

IDC 491 plenum prefilters range from furnace-type filters to pleated fiberglass filters and can be as large as 24" x 24" x 12". The filter medium consists of fiberglass packing or paper which may be more or less dense, depending on filtering needs. Wire mesh can be used to hold the media in place. The frame material for these prefilters is cardboard.

Item Description Code 492-HEPA Filters (24" x 24"), Acid Contaminated

The material in this IDC is HEPA filters used in the ventilation systems at Rocky Flats. HEPA filters have been and are used in all of the buildings which contain plutonium processing activities. HEPA filters are used on gloveboxes and in large plenums that filter the room and glovebox air.

Used filters were removed from their position in the ventilation system and packaged for further processing. The larger-sized filters used in filters plenums were identified and packaged as IDC 492 if acid contaminated.

IDC 492 HEPA filters (24" x 24"), acid contaminated, are large HEPA filters (nominal 24" x 24" x 5" or 24" x 24" x 12") that were used in filter plenum racks. These filters consist of filter media contained within a wooden or metal frame.

This waste form is generated from Facility/Equipment Operation, Maintenance, Analytical Laboratories, R&D Laboratories, D&D, and limited Emergency Response actions.

Current Container Comments N/A

EPA Comments All waste with D001, D002, and D003 codes will be processed or repackaged prior to shipment to WIPP per Geoff Asmus.
Ful-Flo filters from various buildings are also segregated based on their generation prefixes. The generation prefix corresponds to a Material Balance Account (MBA). Specific gloveboxes in Building 771 have been identified as having nitric acid spray exposure such that "crystals" of nitrate salts have been reported to have formed on the filters causing them to meet the definition of a DOT oxidizer (EG&G 1993d). These gloveboxes were correlated to WSRIC processes and then to generation prefixes to characterize the filters generated from them.

Ful-Flo filters which filtered solutions containing chromium are included in Subpopulations BA, BE, and BH. The EPA Code D007 (chromium) does not apply

because the solutions were generated from tanks and are nearly exclusively trivalent chromium. The processes did not generate hexavalent chromium, and these wastes were managed in a non-oxidizing environment (CDH 1994).

Subpopulation 54BA

The four generation prefixes of the nine drums of IDC 331 filters generated in Building 371 indicate that all the filters could have been generated from any process in the building using Ful-Flos. These filters may contain free liquids and exhibit the characteristic of corrosivity. These filters in Subpopulation 54 BA are, therefore, RCRA hazardous and are assigned EPA Code D002.

Subpopulation 54BB

Generation Prefix 12, Module C consists of processes in Building 707 which used IDC 331 Ful-Flo filters to filter oil and carbon tetrachloride. The material filtered is based on information in WSRIC. The single container of filters in Subpopulation 54BB is RCRA hazardous because the filters contain carbon tetrachloride and EPA Code F001 is assigned

Subpopulation 54BC

Generation prefix 15 corresponds to WSRIC Process 6, Machining-Module A, in Building 707. The IDC 331 Ful-Flo filters from this process were used to filter oil and Freon, according to the WSRIC book for Building 707. These 16 containers of filters in Subpopulation 54BC are RCRA hazardous because they contain the F-listed constituent trichloro-trifluoroethane, and are assigned EPA Codes F001 and F002.

Subpopulation 54BD

Generation prefix 22 corresponds to WSRIC processes 4-7, 11-13, 18-20, 23 and 26 in Building 707. The IDC 331 Ful-Flo filters from these processes were used to filter oil, carbon tetrachloride, and Freon, according to WSRIC.

Generation prefix 23 corresponds to WSRIC processes 7,8,9,11, and 12 in Building 777. Generation prefixes 54 and 779 may include any process in Building 779. According to current and archived WSRIC information, the IDC 331 Ful-Flo filters from these processes may have been used to filter oil, carbon tetrachloride, and Freon.

These containers of filters in Subpopulation 54BD are RCRA hazardous because they contain the F-listed constituents carbon tetrachloride and trichloro-trifluoroethane. They are therefore assigned EPA Codes F001 and F002.

Subpopulation 54BE

Subpopulation 54BE consists of all IDC 331 Ful-Flo filters generated from processes in Building 771. There are 146 containers of filters in this subpopulation. These filters could have been used to filter either acidic or caustic liquids, since specific information on the point of generation for each container could not be obtained. Seventeen of these drums were checked for free liquids by Real-Time Radiography (RTR) during "courtesy" inspection in 1993. Because 16 of these drums were evaluated by RTR as having free liquids, all drums in this subpopulation are assumed to have free liquids containing acids or bases that are free liquids. These liquids may exhibit the characteristic of corrosivity, and are assigned EPA Code D002.

Subpopulation 54BF

Generation prefix 04 is used for the Building 777 Radiography Process (Process 777-10). The building of generation should be changed in WEMS from 707 to 777. Based on archived WSRIC information for Radiography, the IDC 331 Ful-Flo filters were used to filter caustic solutions. The single container of filters in Subpopulation 54BF is RCRA hazardous because the filters are assumed to contain free liquids which exhibit the characteristic of corrosivity. EPA Code D002 has therefore been assigned. Additional investigation is warranted to further evaluate if the container has free liquids.

Subpopulation 54BH

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Subpopulation 54BH includes all IDC 331 Ful-Flo filters which are shown in WEMS as being generated in Building 776 with prefixes 19, 25, 26, or 57. Based on the WSRIC book for Building 776, these filters could contain acids or bases which are free liquids, and therefore could exhibit the characteristic of corrosivity. The D002 EPA Code is assigned for corrosivity. The filters might have been used to filter oil, carbon tetrachloride, and Freon; therefore, they are assigned EPA Codes F001 and F002.

Management Comments N/A

Acceptance Comments

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: Filter waste is packaged in 55-gallon drums and metal standard waste boxes.

Final Form Comments N/A

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-MT0332	**Handling**	CH	**Stream Name**	N/A			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3229

EPA Codes

As-Generated
D007, D008, F001, F002

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	701.69	701.69	701.69
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.43		
Packaging Material, Plastic	17.18		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N/A
PCBs:	N/A
Source:	N/A

TRUCON Codes

112

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	3.88E-03
Pu-239	8.27E-02
Pu-240	1.89E-02
Pu-241	4.84E-01
Pu-242	2.40E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0332

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8804 Can	0.1	0.0	0.0	0.0	0.0	0.1

As-Generated	Stored	Projected	Total
	0.1	0.0	0.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.5	0.0	0.0	0.0	0.0	1.5

Final Form	Stored	Projected	Total
	1.5	0.0	1.5

TWBIR ID: RF-MT0332

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	N/A
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a mixed waste or residue, (i.e., RF-MRXXXX, or RF-MTXXXX), but has been recharacterized as non-mixed waste.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT-0335

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W066	**Handling**	CH	**Stream Name**	Filters & media/TRM			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
D007, D008, D011, F001, F002, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	11.29	0.48	72.46
Aluminum-Base Metal/Alloys	7.90	0.05	24.58
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	5.09	0.19	59.19
Cellulosics	12.83	10.50	12.89
Rubber	7.03	0.05	18.14
Plastics	17.72	1.43	49.64
Solidified, Inorganic Matrix	2.33	0.05	5.73
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.48	0.48	0.48
Packaging Material, Steel	138.48		
Packaging Material, Plastic	28.31		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.16E+00
Np-237	1.32E-05
Pu-238	3.13E-01
Pu-239	7.47E+00
Pu-240	1.72E+00
Pu-241	3.46E+01
Pu-242	1.82E-04
U-234	6.50E-04
U-235	2.02E-05
U-238	1.86E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT-0335

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.8	0.0	0.0	0.0	0.0	0.8

As-Generated	Stored	0.8	Projected	0.0	Total	0.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8

Final Form	Stored	0.8	Projected	0.0	Total	0.8

TWBIR ID: RF-MT-0335

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description 335 - High efficiency particulate air filters used on glovebox air intakes and exhausts.

Waste Stream Source Description

Item Description Code 328-Ful-Flo Filters From Building 771 Incinerator

These Ful-Flo filters are in-line cartridge filters used to remove particulates from specific fluid streams in Building 771.

During normal process operations, IDC 328 Ful-Flo filters in the backlog population were used to filter particulates from the incinerator fume scrubber system in Building 771. These filters were used for the filtration of caustic solutions; therefore, they are contaminated with bases and may contain free liquids.

During normal process operations, IDC 331 Ful-Flo filters in this backlog population were used to filter particulates from liquid waste streams in Buildings 371, 707, 771, 776, 777, and 779. These waste streams were primarily from filtration of caustic solutions in Building 371, the carbon tetrachloride system and oil systems, and from filtration of water and developer in Building 707. In Building 771, the primary waste streams filtered were anion column feed, potassium hydroxide, nitrate feed, spent nitric acid and hydrofluoric acid from the scrubber, eluate and effluent exiting the ion-exchange columns, floor pick-up solution were filtered in Building 776. In Buildings 777 and 779, Ful-Flo filters were used in the carbon tetrachloride system for purification of Freon TF and for filtration of incoming waters.

Typically, Ful-Flo filters were placed on drying racks pending bag-out of a glovebox. Filters were not always dried before removal from the glovebox. Filters were then "bagged out" of the glovebox and placed in a second layer of plastic. Next, the filters were placed in a "Poly bottle" or "Clam Shell" (hard plastic container), then placed in a double-lined drum.

Item Description Code-331 Ful-Flo filters Not From Incinerator

These Ful-Flo filters are in-line cartridge filters used throughout Rocky Flats to remove particulates from fluid streams and typically filter down to 5,1, and 0.5 micron-sized particulates. Ful-Flo filters are used in various liquid systems that include nitric- and chloride-acid systems, such as those found in plutonium recovery operations; caustic systems, such as those found in utilities scrubbing; solvent systems using carbon tetrachloride in machining operations; water systems, such as steam cleaning; and condensate collection. These filters are also used in lubricant oil filtration.

Ful-Flo filters are poly-fiber-wound cartridges, about 10" long by 3.5" in diameter. Other fiber filters, such as R-6 pads, may be included in this IDC. R-6 pads are cloth filters, about sixteen inches in diameter, used to filter solids from nitric acid solutions. Therefore, backlog material in this IDC cannot be considered homogeneous. Filter elements are produced by combining a media blanket and spirally wound matrix yarn on an inner core. The filter elements might have a polypropylene cap on one end. Both the media blanket and matrix yarn can be cotton or polypropylene. The inner core material can be constructed of polypropylene, tinned steel, or stainless steel. Warehouse data from Rocky Flats indicate that the inner-core material is polypropylene.

During normal process operations, IDC 331 Ful-Flo filters in this backlog population were used to filter particulates from liquid waste streams in Buildings 371, 707, 771, 776, 777, and 779. These waste streams were primarily from filtration of caustic solutions in Building 371, the carbon tetrachloride system and oil systems, and from filtration of water and developer in Building 707. In Building 771, the primary waste streams filtered were anion column feed, potassium hydroxide, nitrate feed, spent nitric acid and hydrofluoric acid from the scrubber, eluate and effluent exiting the ion-exchange columns, floor pick-up solution, steam condensate, and miscellaneous aqueous solutions. Hydraulic oil and floor pick-up solution were filtered in Building 776. In Buildings 777 and 779, Ful-Flo filters were used in the carbon tetrachloride system for purification of Freon TF and for filtration of incoming waters.

Typically, Ful-Flo filters were placed on drying racks pending bag-out of a glovebox. Filters were not always dried before removal from the glovebox. Filters were then "bagged out'"of the glovebox and placed in a second layer of plastic. Next, the filters were placed in a "Poly Bottle" or "Clam Shell" (hard plastic container), then placed in a double-lined drum.

These Ful-Flo filters may be contaminated with acids, bases, carbon tetrachloride, chromium, Freon, and oil. They may contain relatively small amounts of free liquids.

Item Description Code 335-HEPA Glovebox Filters, Not Acid Contaminated

The material in this IDC is High Efficiency Particulate Air (HEPA) filters used in ventilation systems at Rocky Flats. HEPA filters have been and are used in all of the buildings which contain plutonium processing activities. HEPA filters are used on gloveboxes and in large filter plenums that filter the room air.

Used filters were removed from their position in the ventilation system and packaged for further processing. The filters used on gloveboxes (nominal 8" x 8" x 5") were identified as IDC 335 if they were not acid contaminated.

Item Description Code 342-HEPA Glovebox Filters, Acid Contaminated

HEPA filters are used on all gloveboxes to remove particulates from the atmosphere exiting the glovebox to the plenum exhaust system. The filters in IDC 342 are from gloveboxes with atmospheres that could cause the filters to be contaminated with acids or bases used in chemical processing.

Item Description Code 491-Plenum Prefilters

The material in this IDC is a variety of plenum prefilters used in the ventilation systems at Rocky Flats. Plenum prefilters have been and are used in all of the buildings that contain plutonium processing activities. These prefilters are used in large plenums that filter the room and glovebox air. Used prefilters were removed from their position in the ventilation system and packaged for further processing.

IDC 491 plenum prefilters range from furnace-type filters to pleated fiberglass filters and can be as large as 24" x 24" x 12". The filter medium consists of fiberglass packing or paper which may be more or less dense, depending on filtering needs. Wire mesh can be used to hold the media in place. The frame material for these prefilters is cardboard.

Item Description Code 492-HEPA Filters (24" x 24"), Acid Contaminated

The material in this IDC is HEPA filters used in the ventilation systems at Rocky Flats. HEPA filters have been and are used in all of the buildings which contain plutonium processing activities. HEPA filters are used on gloveboxes and in large plenums that filter the room and glovebox air.

Used filters were removed from their position in the ventilation system and packaged for further processing. The larger-sized filters used in filters plenums were identified and packaged as IDC 492 if acid contaminated.

IDC 492 HEPA filters (24" x 24"), acid contaminated, are large HEPA filters (nominal 24" x 24" x 5" or 24" x 24" x 12") that were used in filter plenum racks. These filters consist of filter media contained within a wooden or metal frame.

This waste form is generated from Facility/Equipment Operation, Maintenance, Analytical Laboratories, R&D Laboratories, D&D, and limited Emergency Response actions.

Current Container Comments N/A

EPA Comments Subpopulation 54CC

These containers of IDC 335 filters are identified by prefix 746, indicating that they might have been generated from anywhere in Building 774. Because the IDC 335 filters from Process 774-5 are characterized in WSRIC as hazardous and cannot be segregated from other filters in this prefix, all filters in Subpopulation 54CC must be characterized as hazardous. These filters might have been contaminated by sludges containing oil, Freon TF, carbon tetrachloride, and 1,1,1-trichloroethane, from the OASIS Process (774-5). EPA Codes F001 and F002 have therefore been applied.

Other EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these

TWBIR ID: RF-MT-0335

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

characterizations may be found in the appropriate WSRIC building book.

Management Comments N/A

Acceptance Comments

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: Filter waste is packaged in 55-gallon drums and metal standard waste boxes.

Final Form Comments N/A

TWBIR ID: RF-MT0336

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W012	**Handling**	CH	**Stream Name**	Combustibles/TRM			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D022, D028, D029, D035, D038, D040, D043, F001, F002, F005, F006, F007, F009, P030, P098, P099, P106, U003, U103, U108

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1.59	0.96	2.39
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	17.72	2.39	59.67
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	137.50		
Packaging Material, Plastic	29.61		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

116

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.61E+00
Np-237	9.34E-07
Pu-238	1.21E+00
Pu-239	3.09E+01
Pu-240	7.05E+00
Pu-241	1.18E+02
Pu-242	8.20E-04
U-234	1.27E-04
U-235	4.11E-06
U-238	3.63E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0336

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	13.7	0.0	0.0	0.0	0.0	13.7
Drum / 85 gallon	0.3	0.0	0.0	0.0	0.0	0.3
Slip Lid Can	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated	Stored	14.1	Projected	0.0	Total	14.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	14.0	0.0	0.0	0.0	0.0	14.0
85 Gallon Drum	0.3	0.0	0.0	0.0	0.0	0.3

Final Form	Stored	14.3	Projected	0.0	Total	14.3

TWBIR ID: RF-MT0336

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consits of rags, paper, cloth, coveralls, plastic, rubber, and wood. The waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills. The bulk of these wastes are packaged in 55-gallon drums with one rigid polyethylene liner and several bag liners. In addition, the waste may be packaged in DOT 7A Type A metal boxes which are lined with a fiberboard liner and a PVC liner or standard TRUPACT-II container. The containers are then assayed and transferred to interim status storage areas. These wastes have been shipped to the INEL for stroage in the past. RF-330, 356, 337, 821, 822, 853, 831, 832, 833. Predominantly combustible debris.
Waste Stream Source Description	Combustible wastes were produced by materials-handling and cleanup from production, research and development, laboratory, utility, custodial and maintenance activities. The combustible wastes form includes wipes, gloves, paper and plastics. Item Description 330, Combustibles, Dry IDC 330 is Dry Combustibles. This IDC is dry combustibles such as cloth, paper, and wood. This IDC changes to 821, 831, 851, or 861 at the point of assay, depending on radiological content. Containers of IDC 330 currently in inventory were generated in all buildings handling fissile material. Item Description 336, Combustibles, Wet Wet combustibles are paper, cloth, etc., which contain a discernible amount of moisture and must be drained or wrung out prior to packaging to prevent an accumulation of free liquid. This IDC changes to 822, 832, 852, or 862 at the point of assay. Item Description 337, Plastic (Teflon, PVC, Polyethylene) IDC 337 represents PVC sheeting, poly bottles, supplied-air suits, polyethylene, and other plastics. IDC 337 changes to 825, 833, 853, or 863 at the point of assay. Item Description 821, Combustibles, Dry TRU Waste Dry transuranic combustible wastes, such as paper, cloth, and wood are classified as IDC 821. Item Description 822, Combustibles, Wet TRU Waste Wet combustible transuranic wastes, such as paper, cloth, and wood, which contain a discernible amount of moisture must be drained or wrung out prior to packaging to prevent accumulation of free liquid. These wastes are classified as IDC 822. Item Description 831, Combustibles, Dry, TRU Mixed Waste Dry combustibles such as paper, cloth, wood, etc. This waste has been identified as being low level mixed waste. Item Description 832, Combustibles, Wet, TRU Mixed Waste Wet combustibles such as paper, cloth, and wood which contain a discernible amount of moisture. These combustibles must be drained or wrung prior to packaging to prevent accumulation of free liquid. Item Description 833, Plastic TRU Mixed Waste PVC sheeting, poly bottles, supplied air suits, and other plastics. This waste has been identified as being a low level mixed waste. Item Description 853, Plastic (Teflon, PVC, and Polyethylene)

TWBIR ID: RF-MT0336

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

This waste has been identified as being a low level mixed waste, consisting of PVC sheeting, poly bottles, supplied-air suits, and other plastics.

Current Container Comments N/A

EPA Comments A- Process knowledge based upon general knowledge of waste type or source (e.g., there is some probability of a waste constituent being absent or present).

Bounding analytical data have not been compiled in a form that is compatible with this report. This effort has been completed and the results are available in the Final Backlog Baseline Book dated September 26, 1994.

Management Comments N/A

Acceptance Comments GENERAAREA: Numerous locations throughout RFP.GENOPERATI: RECLASS_CO: Rocky Flats assays wastes to determine waste type instead of relying on process knowledge or historical data. For this reason, the potential for reclassification has not been analyzed.CATION: Not applicable OTHER_CHAR: No information available.

RFP has assumed this waste to be LDR based on process knowledge characterization, and one sample analyzed for volatiles in 1988.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. Analytical data are limited. WASTE_PACK: This waste is stored in 55 gallon carbon steel drums with one rigid polyethylene liner and several bag liners and standard metal boxes.

Final Form Comments N/A

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TWBIR ID: RF-MT0337

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W012	**Handling**	CH	**Stream Name**	Combustibles/TRM			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D022, D028, D029, D035, D038, D040, D043, F001, F002, F005, F006, F007, F009, P030, P098, P099, P106, U003, U103, U108

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1.85	0.48	4.77
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	10.50	0.96	20.05
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	120.69	7.16	350.37
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.56		
Packaging Material, Plastic	32.30		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

116

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.55E+00
Np-237	5.97E-07
Pu-238	6.79E-01
Pu-239	1.93E+01
Pu-240	4.35E+00
Pu-241	5.92E+01
Pu-242	4.12E-04
U-234	2.76E-04
U-235	8.88E-06
U-238	7.86E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0337

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	13.9	0.0	0.0	0.0	0.0	13.9

As-Generated	Stored	Projected	Total
	13.9	0.0	13.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	14.0	0.0	0.0	0.0	0.0	14.0

Final Form	Stored	Projected	Total
	14.0	0.0	14.0

TWBIR ID: RF-MT0337

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consits of rags, paper, cloth, coveralls, plastic, rubber, and wood. The waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills. The bulk of these wastes are packaged in 55-gallon drums with one rigid polyethylene liner and several bag liners. In addition, the waste may be packaged in DOT 7A Type A metal boxes which are lined with a fiberboard liner and a PVC liner or standard TRUPACT-II container. The containers are then assayed and transferred to interim status storage areas. These wastes have been shipped to the INEL for stroage in the past. RF-330, 356, 337, 821, 822, 853, 831, 832, 833. Predominantly combustible debris.
Waste Stream Source Description	Combustible wastes were produced by materials-handling and cleanup from production, research and development, laboratory, utility, custodial and maintenance activities. The combustible wastes form includes wipes, gloves, paper and plastics. Item Description 330, Combustibles, Dry IDC 330 is Dry Combustibles. This IDC is dry combustibles such as cloth, paper, and wood. This IDC changes to 821, 831, 851, or 861 at the point of assay, depending on radiological content. Containers of IDC 330 currently in inventory were generated in all buildings handling fissile material. Item Description 336, Combustibles, Wet Wet combustibles are paper, cloth, etc., which contain a discernible amount of moisture and must be drained or wrung out prior to packaging to prevent an accumulation of free liquid. This IDC changes to 822, 832, 852, or 862 at the point of assay. Item Description 337, Plastic (Teflon, PVC, Polyethylene) IDC 337 represents PVC sheeting, poly bottles, supplied-air suits, polyethylene, and other plastics. IDC 337 changes to 825, 833, 853, or 863 at the point of assay. Item Description 821, Combustibles, Dry TRU Waste Dry transuranic combustible wastes, such as paper, cloth, and wood are classified as IDC 821. Item Description 822, Combustibles, Wet TRU Waste Wet combustible transuranic wastes, such as paper, cloth, and wood, which contain a discernible amount of moisture must be drained or wrung out prior to packaging to prevent accumulation of free liquid. These wastes are classified as IDC 822. Item Description 831, Combustibles, Dry, TRU Mixed Waste Dry combustibles such as paper, cloth, wood, etc. This waste has been identified as being low level mixed waste. Item Description 832, Combustibles, Wet, TRU Mixed Waste Wet combustibles such as paper, cloth, and wood which contain a discernible amount of moisture. These combustibles must be drained or wrung prior to packaging to prevent accumulation of free liquid. Item Description 833, Plastic TRU Mixed Waste PVC sheeting, poly bottles, supplied air suits, and other plastics. This waste has been identified as being a low level mixed waste. Item Description 853, Plastic (Teflon, PVC, and Polyethylene)

TWBIR ID: RF-MT0337

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

This waste has been identified as being a low level mixed waste, consisting of PVC sheeting, poly bottles, supplied-air suits, and other plastics.

Current Container Comments N/A

EPA Comments A- Process knowledge based upon general knowledge of waste type or source (e.g., there is some probability of a waste constituent being absent or present).

Bounding analytical data have not been compiled in a form that is compatible with this report. This effort has been completed and the results are available in the Final Backlog Baseline Book dated September 26, 1994.

Management Comments N/A

Acceptance Comments GENERAAREA: Numerous locations throughout RFP.GENOPERATI: RECLASS_CO: Rocky Flats assays wastes to determine waste type instead of relying on process knowledge or historical data. For this reason, the potential for reclassification has not been analyzed.CATION: Not applicable OTHER_CHAR: No information available.

RFP has assumed this waste to be LDR based on process knowledge characterization, and one sample analyzed for volatiles in 1988.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. Analytical data are limited. WASTE_PACK: This waste is stored in 55 gallon carbon steel drums with one rigid polyethylene liner and several bag liners and standard metal boxes.

Final Form Comments N/A

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TWBIR ID: RF-MT0339

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W029	**Handling**	CH	**Stream Name**	Leaded Dry Box Gloves/TRM			**Inventory Date**	9/30/2002
Local ID	IDC 339	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5311

EPA Codes

As-Generated
D006, D007, D008, F001, F002, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	5.36	1.43	14.32
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	229.49	5.25	874.01
Other Inorganic Materials	103.54	4.77	176.62
Cellulosics	12.09	4.31	12.89
Rubber	133.48	3.82	513.14
Plastics	20.85	2.86	143.35
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	139.38		
Packaging Material, Plastic	28.73		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

123

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.24E-01
Np-237	1.34E-05
Pu-238	9.95E-02
Pu-239	2.28E+00
Pu-240	5.15E-01
Pu-241	1.15E+01
Pu-242	5.53E-05
U-234	6.54E-05
U-235	9.95E-07
U-238	2.50E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0339

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	101.9	64.5	0.0	0.0	0.0	166.4
Standard Waste Box	1.9	9.5	0.0	0.0	0.0	11.4

As-Generated	Stored	Projected	Total
	103.8	74.0	177.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	102.1	0.0	0.0	0.0	0.0	166.8
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	11.3

Final Form	Stored	Projected	Total
	104.0	74.1	178.1

TWBIR ID: RF-MT0339

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is a solid matrix consisting of gloves with lead lining. There could be some free liquids in waste containers.
Waste Stream Source Description	Leaded glovebox gloves are generated as waste at Rocky Flats by processes requiring a controlled atmosphere in Buildings 371, 374, 559, 707, 771, 774, 776, 777, 778, and 779 and encompasses IDCs 339 and 341. Prior to January 22, 1986, all leaded glovebox gloves were accumulated together as IDC 339 (Leaded Glovebox Gloves). At that time, IDC 341 (Leaded Glovebox Gloves, Acid Contaminated) was created. IDC 339 became "Leaded Glovebox Gloves, Nonacid Contaminated." Leaded glovebox gloves are replaced by schedule or as needed. All backlog leaded glovebox gloves (IDC 0339 and 0341) were washed in Building 776 until about September 1989, at which time the process was curtailed. The primary purpose of the washing process was to remove the accountable material; however, the acid from the acid-contaminated gloves (IDC 341) was removed as well. After the acid-contaminated gloves were washed, the IDC was changed from 341 to 339. The glove washing process was curtailed upon completion of the inventory of backlog gloves. Due to degradation from contact with process materials during normal process operations and age, the leaded glovebox gloves are replaced according to schedule or as necessary. Nonacid-contaminated leaded glovebox gloves (IDC 339) are generated as waste or residue depending on the assay, in Buildings 371, 374, 559, 707, 771, 774, 776, 779. Acid contaminated leaded glovebox gloves (IDC 341) were washed in Building 776 after which they were assigned IDC 339. This stream is generated from Facility Operations, Analytical Laboratories, and R&D Laboratories.
Current Container Comments	N/A
EPA Comments	Subpopulation 42C: This Subpopulation consists of IDC 339 nonacid contaminated glovebox gloves in Building 774. The waste was characterized as hazardous under WSRIC process numbers 774-3-3, 774-5-2, 774-9-3, and 774-10-7. According to process knowledge, this waste exhibits the characteristic of toxicity for cadmium, chromium, and lead. The waste also contains spent halogenated solvents, and it meets the definition of an F-listed waste. Therefore, this waste is assigned EPA Waste Codes D006, D007, D008, F001, F002, and F005. Subpopulation 42E: This Subpopulation includes containers previously identified in Subpopulation 42A, which have been reassessed based on a review of WSRIC information. Based on the archived WSRIC information, Buildings 707 and 777 conducted machining operations using cutting oils and solvents such as carbon tetrachloride, 1,1,1-trichloroethane, and 1,1,2-trichloro-1,2,2-trifluoroethane (Freon TF). These oil/solvent mixtures were re-used for a period of time before being piped to C-Pit (in the basement beneath Module C) where they passed through Ful-Flo filters to recover a portion of the plutonium before being sent as waste to Building 774 for treatment. These operations were conducted in gloveboxes that were fitted with leaded gloves. If the leaded gloves were visibly contaminated when discarded, they would be considered F001 and F002 listed wastes under the mixture rule. Leaded gloves will still carry the EPA Waste Code D008 for lead. Leaded gloves were periodically changed out and accumulated in waste drums. These gloves had an expiration date, but it is undetermined how often they were changed out. However, it is known that production operations were curtailed in late 1989. Based on a review of the headspace gas VOC (HGVO) analytical data, the above solvents are consistently detected in IDC 339 drums that have accumulation start dates or fill dates prior to April 1990. From this information it can be inferred that leaded gloves generated in any area of Buildings 707 and 777 prior to April 1990 will be contaminated with oils and solvents. Headspace gas sampling performed during the TRU Waste Characterization Program detected chloroform in sampled containers above the Program Required Quantitation Limit (PRQL). Subsequent review of the headspace gas sampling data and reconsideration of process knowledge confirms the initial conclusion that these leaded glovebox gloves are hazardous waste. Based on further review of process knowledge, there is no indication this waste became contaminated with chloroform. Nevertheless, Procedure WIPP-009 (RCRA Characterization of TRU Waste to be Disposed of at WIPP) requires the addition of applicable EPA Codes to containers when compounds indicative of spent solvents are measured in the headspace gas above PRQL. EPA Code D022 will be added prior to shipment offsite. Until shipment, these leaded glovebox gloves will continue to be managed as hazardous waste.

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Management Comments	N/A
Acceptance Comments	RFP has assumed this waste to be LDR based on the fact that lead is a RCRA listed waste exhibiting the characteristic of toxicity. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: The gloves are packaged in 55-gallon drums lined with a rigid polyethylene liner and one bag liner.
Final Form Comments	N/A

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TWBIR ID: RF-MT-0342

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W066	**Handling**	CH	**Stream Name**	Filters & media/TRM			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
D008

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	7.47	3.82	16.71
Aluminum-Base Metal/Alloys	12.86	0.48	176.62
Other Metal/Alloys	4.30	4.30	4.30
Other Inorganic Materials	7.58	0.96	84.49
Cellulosics	12.62	10.50	12.89
Rubber	9.61	0.48	27.69
Plastics	24.64	1.91	47.73
Solidified, Inorganic Matrix	1.67	0.48	2.86
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	8.59	8.59	8.59
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.46		
Packaging Material, Plastic	26.15		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

119

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.20E+00
Np-237	2.05E-05
Pu-238	5.21E-01
Pu-239	1.31E+01
Pu-240	2.95E+00
Pu-241	5.25E+01
Pu-242	2.75E-04
U-234	1.40E-04
U-235	4.52E-06
U-238	2.77E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT-0342

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RF-MT-0342

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description 342 - Drybox filters from all acid lines.

Waste Stream Source Description Item Description Code 328-Ful-Flo Filters From Building 771 Incinerator

These Ful-Flo filters are in-line cartridge filters used to remove particulates from specific fluid streams in Building 771.

During normal process operations, IDC 328 Ful-Flo filters in the backlog population were used to filter particulates from the incinerator fume scrubber system in Building 771. These filters were used for the filtration of caustic solutions; therefore, they are contaminated with bases and may contain free liquids.

During normal process operations, IDC 331 Ful-Flo filters in this backlog population were used to filter particulates from liquid waste streams in Buildings 371, 707, 771, 776, 777, and 779. These waste streams were primarily from filtration of caustic solutions in Building 371, the carbon tetrachloride system and oil systems, and from filtration of water and developer in Building 707. In Building 771, the primary waste streams filtered were anion column feed, potassium hydroxide, nitrate feed, spent nitric acid and hydrofluoric acid from the scrubber, eluate and effluent exiting the ion-exchange columns, floor pick-up solution were filtered in Building 776. In Buildings 777 and 779, Ful-Flo filters were used in the carbon tetrachloride system for purification of Freon TF and for filtration of incoming waters.

Typically, Ful-Flo filters were placed on drying racks pending bag-out of a glovebox. Filters were not always dried before removal from the glovebox. Filters were then "bagged out" of the glovebox and placed in a second layer of plastic. Next, the filters were placed in a "Poly bottle" or "Clam Shell" (hard plastic container), then placed in a double-lined drum.

Item Description Code-331 Ful-Flo filters Not From Incinerator

These Ful-Flo filters are in-line cartridge filters used throughout Rocky Flats to remove particulates from fluid streams and typically filter down to 5,1, and 0.5 micron-sized particulates. Ful-Flo filters are used in various liquid systems that include nitric- and chloride-acid systems, such as those found in plutonium recovery operations; caustic systems, such as those found in utilities scrubbing; solvent systems using carbon tetrachloride in machining operations; water systems, such as steam cleaning; and condensate collection. These filters are also used in lubricant oil filtration.

Ful-Flo filters are poly-fiber-wound cartridges, about 10" long by 3.5" in diameter. Other fiber filters, such as R-6 pads, may be included in this IDC. R-6 pads are cloth filters, about sixteen inches in diameter, used to filter solids from nitric acid solutions. Therefore, backlog material in this IDC cannot be considered homogeneous. Filter elements are produced by combining a media blanket and spirally wound matrix yarn on an inner core. The filter elements might have a polypropylene cap on one end. Both the media blanket and matrix yarn can be cotton or polypropylene. The inner core material can be constructed of polypropylene, tinned steel, or stainless steel. Warehouse data from Rocky Flats indicate that the inner-core material is polypropylene.

During normal process operations, IDC 331 Ful-Flo filters in this backlog population were used to filter particulates from liquid waste streams in Buildings 371, 707, 771, 776, 777, and 779. These waste streams were primarily from filtration of caustic solutions in Building 371, the carbon tetrachloride system and oil systems, and from filtration of water and developer in Building 707. In Building 771, the primary waste streams filtered were anion column feed, potassium hydroxide, nitrate feed, spent nitric acid and hydrofluoric acid from the scrubber, eluate and effluent exiting the ion-exchange columns, floor pick-up solution, steam condensate, and miscellaneous aqueous solutions. Hydraulic oil and floor pick-up solution were filtered in Building 776. In Buildings 777 and 779, Ful-Flo filters were used in the carbon tetrachloride system for purification of Freon TF and for filtration of incoming waters.

Typically, Ful-Flo filters were placed on drying racks pending bag-out of a glovebox. Filters were not always dried before removal from the glovebox. Filters were then "bagged out'"of the glovebox and placed in a second layer of plastic. Next, the filters were placed in a "Poly Bottle" or "Clam Shell" (hard plastic container), then placed in a double-lined drum.

These Ful-Flo filters may be contaminated with acids, bases, carbon tetrachloride, chromium, Freon, and oil. They may contain relatively small amounts of free liquids.

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Item Description Code 335-HEPA Glovebox Filters, Not Acid Contaminated

The material in this IDC is High Efficiency Particulate Air (HEPA) filters used in ventilation systems at Rocky Flats. HEPA filters have been and are used in all of the buildings which contain plutonium processing activities. HEPA filters are used on gloveboxes and in large filter plenums that filter the room air.

Used filters were removed from their position in the ventilation system and packaged for further processing. The filters used on gloveboxes (nominal 8" x 8" x 5") were identified as IDC 335 if they were not acid contaminated.

Item Description Code 342-HEPA Glovebox Filters, Acid Contaminated

HEPA filters are used on all gloveboxes to remove particulates from the atmosphere exiting the glovebox to the plenum exhaust system. The filters in IDC 342 are from gloveboxes with atmospheres that could cause the filters to be contaminated with acids or bases used in chemical processing.

Item Description Code 491-Plenum Prefilters

The material in this IDC is a variety of plenum prefilters used in the ventilation systems at Rocky Flats. Plenum prefilters have been and are used in all of the buildings that contain plutonium processing activities. These prefilters are used in large plenums that filter the room and glovebox air. Used prefilters were removed from their position in the ventilation system and packaged for further processing.

IDC 491 plenum prefilters range from furnace-type filters to pleated fiberglass filters and can be as large as 24" x 24" x 12". The filter medium consists of fiberglass packing or paper which may be more or less dense, depending on filtering needs. Wire mesh can be used to hold the media in place. The frame material for these prefilters is cardboard.

Item Description Code 492-HEPA Filters (24" x 24"), Acid Contaminated

The material in this IDC is HEPA filters used in the ventilation systems at Rocky Flats. HEPA filters have been and are used in all of the buildings which contain plutonium processing activities. HEPA filters are used on gloveboxes and in large plenums that filter the room and glovebox air.

Used filters were removed from their position in the ventilation system and packaged for further processing. The larger-sized filters used in filters plenums were identified and packaged as IDC 492 if acid contaminated.

IDC 492 HEPA filters (24" x 24"), acid contaminated, are large HEPA filters (nominal 24" x 24" x 5" or 24" x 24" x 12") that were used in filter plenum racks. These filters consist of filter media contained within a wooden or metal frame.

This waste form is generated from Facility/Equipment Operation, Maintenance, Analytical Laboratories, R&D Laboratories, D&D, and limited Emergency Response actions.

Current Container Comments N/A

EPA Comments All waste with D001, D002, and D003 codes will be processed or repackaged prior to shipment to WIPP per Geoff Asmus.
Ful-Flo filters from various buildings are also segregated based on their generation prefixes. The generation prefix corresponds to a Material Balance Account (MBA).

Subpopulation 54EB

Subpopulation 54EB consists of IDC 342 filters generated from processes in Building 771 assigned to prefixes 02 and 74. The following gloveboxes have been determined to have had nitric acid spray exposure.

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Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Gloveboxes A-1, A-2, A-3, and A-4 in Room 174
Gloveboxes 13, 14, and 15 in Room 114
Glovebox 29 in Room 149

The gloveboxes in Room 174 are associated with the OY Leach Process which corresponds to prefix 74. The gloveboxes in Rooms 114 and 149 are associated with Batching, Precipitation, and other processes corresponding to prefix 02.

Other EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.

Management Comments N/A

Acceptance Comments 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: Filter waste is packaged in 55-gallon drums and metal standard waste boxes.

Final Form Comments N/A

TWBIR ID: RF-MT0371

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-MT0371	**Handling**	CH	**Stream Name**	N/A			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5123

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, F001, F002, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.96	0.96	0.96
Aluminum-Base Metal/Alloys	1.91	1.91	1.91
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	236.28	83.06	382.83
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	50.76	9.55	123.15
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	489.70		
Packaging Material, Plastic	23.56		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N/A
PCBs:	N/A
Source:	N/A

TRUCON Codes

122

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.03E+01
Np-237	1.07E-04
Pu-238	2.45E+00
Pu-239	5.22E+01
Pu-240	1.20E+01
Pu-241	3.06E+02
Pu-242	1.51E-03
U-234	6.34E-05
U-235	2.05E-06
U-238	1.81E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0371

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8802 Can	0.0	0.0	0.0	0.0	0.0	0.0
8804 Can	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	1.2	0.0	0.0	0.0	0.0	1.2
POC / 55 gallon	18.5	0.0	0.0	0.0	0.0	18.5

As-Generated	Stored	19.8	Projected	0.0	Total	19.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.9	0.0	0.0	0.0	0.0	1.9
55 Gallon POCs	18.6	0.0	0.0	0.0	0.0	18.6

Final Form	Stored	20.4	Projected	0.0	Total	20.4

TWBIR ID: RF-MT0371

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	N/A
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a mixed waste or residue, (i.e., RF-MRXXXX, or RF-MTXXXX), but has been recharacterized as non-mixed waste.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT-0372

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W068	**Handling**	CH	**Stream Name**	Particulate Sludge/TRM			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	MTRU	**Generator Site**	ZZ	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5123

EPA Codes

As-Generated
D007

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	4.77	4.77	4.77
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	115.80	16.71	346.07
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	17.50	9.07	25.78
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.48		
Packaging Material, Plastic	29.60		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

122

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.58E-01
Np-237	1.45E-06
Pu-238	2.42E-01
Pu-239	5.11E+00
Pu-240	1.17E+00
Pu-241	2.65E+01
Pu-242	1.33E-04
U-234	1.64E-04
U-235	5.29E-06
U-238	4.68E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT-0372

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated	Stored	1.5	Projected	0.0	Total	1.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.5	0.0	0.0	0.0	0.0	1.5

Final Form	Stored	1.5	Projected	0.0	Total	1.5

TWBIR ID: RF-MT-0372

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consists of iron shot, walnut shells, glass beads, and ceramic beads generated by grit blasting operations.
Waste Stream Source Description	Item Description Code 292-Incinerator Sludge IDC 292 was intended for incinerator sludge from the recovery incinerator in Building 771. IDC 292 materials were reassessed under Waste Form 1, Incinerator Ash. However, there is one box WEMS incorrectly assigned this IDC. According to the waste-box log sheet dated October 14, 1987, the box contains Electrochemical Milling Sludge generated in Building 881. This operation generated sludge from the milling of various metals including stainless steel. It was indicated that no cyanides were used in the ECM operations in Building 881. The IDC for this box should be changed to 299. Item Description Code 299-Miscellaneous Sludge This IDC has been used for sludges that were not accurately categorized as IDC 290 or 340 and could have been generated in any plutonium processing building. However, the backlog miscellaneous sludge was generated in Building 771 during the processing of residues, in Building 371 in the analytical laboratory, and in Building 883 by the Rolling Process. Process pipe sludge, sludge dissolution heel, and filter plenum sludge from Building 771 were processed through nitric acid dissolution and sparging. Soil and sludge samples from around the site were analyzed in Building 371, and the waste was stored for processing. IDC 299 materials generated in Building 883 include quench sludge and uranium oxide sludge from the Rolling Process. This group also includes one container of electrochemical milling sludge generated in Building 881 in October 1987. The container is assigned IDC 292. Item Description Code 372-Grit This IDC was generated by grit blasting operations in Building 371 (primarily for cleaning steel and iron) and Building 777 in the Machining and Coating processes (primarily cleaning shields). A variety of materials were used for the grit, including iron shot, walnut shells, glass beads, and ceramic beads. The majority of the grit is thought to be iron shot ranging in size from fines to irregular particles. There were apparently no other RCRA-regulated metals involved in the grit blasting. There is one drum of IDC 372 shown in WEMS as being generated in Building 371. However, no grit blasting operation could be identified in that building. Item Description Code 823-Cemented Sludge IDC 823, cemented miscellaneous sludge, was generated when sludge designated as inorganic particulate and sludgy material that was below the economic discard limit (EDL) was placed in 1-gallon paint cans and covered with Portland cement or mixed with cement into a block. The first scenario was conducted in Building 771 and the second in Building 371. This could have included IDCs 290-299 and was done to meet the Waste Isolation Pilot Plant (WIPP) waste acceptance criteria. The material came primarily from Nash pumps in Building 771 and included vacuum grease and oily sludge. One drum of the material was apparently generated when the pit in front of Building 707 was cleaned out. However, the contents of the pit sludge could not be ascertained. One drum was generated in the Size Reduction Vault in Building 776. Six drums were generated in Building 774 and are stored in Building 371. Drum-specific information was requested but was not received. The drums from Building 559 are incorrectly assigned IDC 823 in WEMS. The drums are stored in Building 771 and are labeled with IDC 863. It appears that IDC 823 was entered incorrectly in WEMS. Therefore, these drums should be changed to IDC 863 in WEMS. This waste form is generated from Facility/Equipment Operation, Maintenance, Analytical Laboratories, R&D Laboratories, D&D, and limited Emergency Response actions.
Current Container Comments	N/A
EPA Comments	Subpopulation 46DA includes one drum generated in Building 371, according to WEMS. WEMS also indicates that the drum contains D007 waste. This drum contains grit from grit blasting of stainless steel and could contain chromium. This information could not be verified or refuted at the time this document was produced. Therefore, the drum is characterized as hazardous and assigned EPA Waste Code D007 until proven otherwise. The drum is also prohibited from

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Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

	land disposal.
Management Comments	N/A
Acceptance Comments	1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: The waste is packaged in 55-gallon drums with multiple bag liners. These are typically smaller containers within the drums.
Final Form Comments	N/A

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TWBIR ID: RF-MT0373

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-MT0373	**Handling**	CH	**Stream Name**	N/A			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, F001, F002, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	19.44	0.96	42.96
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	23.87	23.87	23.87
Other Inorganic Materials	92.37	1.43	493.57
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	15.87	2.20	41.05
Solidified, Inorganic Matrix	80.40	0.48	339.39
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.22		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N/A
PCBs:	N/A
Source:	N/A

TRUCON Codes

130

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.26E+00
Pu-238	9.16E-01
Pu-239	3.54E+01
Pu-240	8.04E+00
Pu-241	8.07E+01
Pu-242	4.91E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0373

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8802 Can	0.0	0.0	0.0	0.0	0.0	0.0
POC / 55 gallon	3.7	0.0	0.0	0.0	0.0	3.7

As-Generated	Stored	3.7	Projected	0.0	Total	3.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	4.0	0.0	0.0	0.0	0.0	4.0

Final Form	Stored	4.0	Projected	0.0	Total	4.0

TWBIR ID: RF-MT0373

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Scarfed firebrick (IDC 377 and 378) was subjected to a nitric acid dissolution process. Firebrick heel (IDC 373) is the material that did not dissolve and was filtered and dried.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a mixed waste or residue, (i.e., RF-MRXXXX, or RF-MTXXXX), but has been recharacterized as non-mixed waste.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0374

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W008	**Handling**	CH	**Stream Name**	Soil & Cleanup Debris/TRM			**Inventory Date**	9/30/2002
Local ID	IDC 374	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
D007, F001, F002, F003, F005, F006, F007, F009, P030, P098, P099, P106, U003, U103, U108

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	18.66	4.77	32.56
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	447.28	16.23	821.03
Cellulosics	12.89	12.89	12.89
Rubber	5.44	5.44	5.44
Plastics	18.14	3.68	38.19
Solidified, Inorganic Matrix	840.22	840.22	840.22
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	608.13	608.13	608.13
Soils	239.96	139.86	417.77
Packaging Material, Steel	138.52		
Packaging Material, Plastic	31.17		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

121

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.57E-01
Np-237	7.90E-06
Pu-238	2.08E-01
Pu-239	4.42E+00
Pu-240	1.01E+00
Pu-241	2.59E+01
Pu-242	1.28E-04
U-234	5.30E-06
U-235	9.46E-07
U-238	5.64E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0374

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	0.6	Projected	0.0	Total	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	0.6	Projected	0.0	Total	0.6

TWBIR ID: RF-MT0374

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consists of blacktop/concrete/dirt/sand.
Waste Stream Source Description	Soil and cleanup-debris (IDC 374) were generated during cleanup and construction activities around Rocky Flats. In most cases, construction or demolition activities generated rubble consisting of blacktop, concrete, dirt, sand , and rock. The rubble was packaged in plywood boxes with a fiberboard liner and a polyvinyl chloride (PVC) bag liner or in 55-gallon, DOT Type 7A drups. The waste was generated on a nonroutine basis. Information describing spendid activities generating soil and debris were often unavailable.
Current Container Comments	N/A
EPA Comments	Subpopulation 23B-Container Number D48510 was generated in Building 374, Room 3803. Room 3803 houses part of the Building 374 Sludge Immobilization Process. The process generated solidified sludge. The waste in drum D48510 is potentially contaminated with process sludge. The sludge consists of RCRA-regulated materials from Decontamination-Precipitation and Neutralization Processes in the Building 374 Liquid Waste Treatment Facility. Building 374 solidified sludge is characterized in the Building 374 Solidified Sludge Backlog Waste Reassessment Baseline Book. Building 374 sludge was intermittently contaminated with RCRA metals (EPA Codes D004–D011). Sampling and analysis of solidified sludge found the waste exceeded toxicity characteristic criteria for chromium (EPA Code D007) and selenium (D010), but at very low levels. It will be assumed that the waste contained in drum D48510 would not exhibit the characteristic of toxicity for chromium and selenium because of dilution by the soil and debris. Toxicity Characteristic Leaching Procedure (TCLP) analysis of the waste under EPA SW□846 (EPA 1990) is required to prove the waste does not exceed toxicity characteristic criteria. Contaminated soil and cleanup debris must carry the listed EPA codes associated with Building 374 solidified sludge. The EPA Codes F001, F002, F005, F006, F007, and F009 are assigned to the waste and it will not be considered as meeting the Land Disposal Restrictions (LDR) treatment standards until sampling and analysis prove otherwise. Subpopulation 23D- According to WEMS drum D75005 was generated in Building 776. However, the waste was repackaged in Building 776 in April 1988 after a failed drum containing the waste was discovered in the Property Utilization and Disposal (PU&D) storage yard. Drum D75055 contains soil and two sample vials of chromium oxide and aluminum oxide. It will be assumed that the waste contained in drum D75005 exhibits the characteristic of toxicity for chromium (D007) because of chromium oxide contamination. Subpopulation 23Y includes insulation (IDC 374) that was originally characterized as hazardous under WSRIC process number 374-6-33. The Building 374 process treatment system is used to treat aqueous waste from throughout the site, including F-listed wastes and product and/or off-spec chemicals. Therefore, waste generated from 374-6-33 since 1994 meets the definition of an F-listed waste as well as the definition of P- and U-listed waste. This waste was also generated under NRWOLs 231-1-11, MM331001, and TI027079. NRWOL MM331001 identifies hazardous silicate filters that have visible residue from the inspection of Freon containing units in building 374. NRWOL TI027079 identifies hazardous concrete pieces and granules chipped from around process liquid drains. The concrete has been in contact with process liquid, which was determined to be RCRA hazardous. NRWOL 231-1-11 identifies dirt and rocks picked up from a spill from Tanker #6. The liquid in Tanker #6 was determined to be hazardous, radioactive waste from building 374. RTR performed on 4/29/98 identified approximately 90ml of liquid in D85534. NRWOL TI027079 identified EPA Waste Code F003. Based on the above information, this waste is characterized as hazardous and EPA Waste Codes F001, F002, F003, F005, F006, F007, F009, P030, P098, P099, P106, U003, U103, and U108 will be applied to this waste.
Management Comments	N/A
Acceptance Comments	GENERAAREA: Plutonium process areas. GENOPERATION: Generated in multiple buildings in which aqueous plutonium recovery or plutonium fabrication

processes were conducted. RECLASS_CO: Rocky Flats assays wastes to determine waste type instead of relying on process knowledge or historical data. For this reason, the potential for reclassification has not been analyzed. CATION: Not Applicabe. OTHER_CHAR: Not Applicable.

RFP has determined this waste to be LDR based on process knowledge characterization.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55 gallon carbon steel DOT 7A Type A Drum.

Final Form Comments N/A

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TWBIR ID: RF-MT0376

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-MT0376	**Handling**	CH	**Stream Name**	N/A			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	2.52	0.48	11.93
Aluminum-Base Metal/Alloys	16.25	4.77	52.51
Other Metal/Alloys	172.56	19.09	326.02
Other Inorganic Materials	73.46	2.86	441.54
Cellulosics	12.68	9.55	12.89
Rubber	8.99	2.86	21.96
Plastics	13.79	2.86	22.91
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	10.26	4.77	15.75
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.44		
Packaging Material, Plastic	27.71		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N/A
PCBs:	N/A
Source:	N/A

TRUCON Codes

130

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.48E+00
Np-237	8.42E-06
Pu-238	5.03E-01
Pu-239	1.32E+01
Pu-240	3.08E+00
Pu-241	5.72E+01
Pu-242	2.98E-04
U-234	7.25E-05
U-235	2.34E-06
U-238	4.49E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0376

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: RF-MT0376

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	N/A
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0377

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W036	**Handling**	CH	**Stream Name**	Firebrick, coarse/TRM	**Inventory Date**	9/30/2002
Local ID	)C 377,378,373,37	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S5123

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, F001, F002, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	25.22	2.86	95.47
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	110.43	2.39	512.66
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	19.64	2.86	41.53
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	493.81		
Packaging Material, Plastic	24.36		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

122

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.25E+00
Np-237	4.20E-05
Pu-238	8.11E-01
Pu-239	1.73E+01
Pu-240	3.96E+00
Pu-241	1.01E+02
Pu-242	5.00E-04
U-234	1.37E-04
U-235	4.35E-06
U-238	3.83E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0377

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	6.0	0.0	0.0	0.0	0.0	6.0
POC / 55 gallon	68.2	0.0	0.0	0.0	0.0	68.2

As-Generated	Stored	Projected	Total
	74.3	0.0	74.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	6.0	0.0	0.0	0.0	0.0	6.0
55 Gallon POCs	68.4	0.0	0.0	0.0	0.0	68.4

Final Form	Stored	Projected	Total
	74.4	0.0	74.4

TWBIR ID: RF-MT0377

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste form is firebrick that has been crushed and pulverized.
Waste Stream Source Description	During incinerator maintenance and stripout operations, firebrick used to line the firebox (IDCs 371, 373, 377 and 378) was generated in Buildings 371 and 771. A bed liner material used in the FBI in Building 776 was also generated. This material was a sodium carbonate and sand material but was assigned IDC 371, firebrick. The following sections describe the specific wastes, by IDC, generated by the incinerators. Item Description Code 371, Firebrick Firebrick was generated during maintenance operations in the incineration systems in Building 771. This material was also generated during incinerator stripout operations in Building 371. Firebrick consists of brick and chunks of high-density alumina ceramic material used to line the firebox of the incinerator. The current inventory contains 30 drums of LLW, residues, and mixed residues. IDC 371 is mixed residue only. Item Description Code 373, Firebrick Heel During dissolution of scarfed firebrick (IDC 377 and 378), undissolved firebrick heel was generated in Building 771. Spent firebrick was subjected to a mechanical scarfing process to remove plutonium-bearing surface layers. Those layers were pulverized and subjected to a nitric acid dissolution process. The material that did not dissolve was filtered, dried, assayed, and set aside for additional processing. The current inventory contains four drums of mixed residues. IDC 373 is mixed residue only. Item Description Code 377, Coarse Firebrick During maintenance operations, coarse chunks of scarfed firebrick were generated in Building 771. This material was also generated during incinerator stripout operations in Building 371. Spent firebrick was subjected to a mechanical scarfing process to remove plutonium-bearing surface layers. Coarse firebrick consists of chunks of the unpulverized, plutonium-bearing surface layer of the high-density alumina ceramic firebrick material. The current inventory contains 66 drums of transuranic waste, mixed transuranic waste, and residues. Item Description Code 378, Scarfed Firebrick During maintenance operations, pulverized scarfed firebrick was generated in Building 771. This material was also generated during incinerator stripout operations in Building 371. Spent firebrick was subjected to a mechanical scarfing process to remove plutonium-bearing surface layers. Pulverized firebrick consists of chunks granular, fine, and very fine, plutonium-bearing surface layer of the high-density alumina ceramic firebrick material The current inventory contains 45 drums mixed transuranic waste and residues.
Current Container Comments	N/A
EPA Comments	Subpopulations IK, IL, IM, IN EPA Codes D004-D011, F001, F002, F003, and F005 were assigned to these subpopulations based on the characterization of incinerator feed materials. Based on the characterization of the feed, alcohols, glycols, halogenated solvents, and metals may have been introduced into the incinerator. Because the specific sources of the incinerator feed cannot be determined at this time, it has been assumed that the process could have accepted any of the combustible, plastic, or filter waste currently contained in the backlog that were generated during the time the incinerator was operational.

TWBIR ID: RF-MT0377

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

A report was generated from the Backlog Waste Reassessment database that summarizes the EPA codes assigned to inventory containers of combustibles (IDCs 330 and 336), plastics (337), and Ful-Flo filters (331) generated about the same time that the incinerator was operational. The following EPA codes were contained in the database for these wastes; D004-D011, D018, D019, D028, D029, D035, D038, F001, F002, F003, and F005. It was assumed that the F-listed solvents would have to be applied due to the "derived-from" rule. The codes for the D-listed metals were applied because these metals would be concentrated during incineration. However, it was assumed that the D-listed solvent would be volatilized and driven off in this process. Therefore, these solvents would not be present at levels exceeding Toxicity Characteristic Leaching Procedure (TCLP) limits due to the thermal treatment. This subpopulation is land disposal restricted due to the presence of RCRA metals. It is not land disposal restricted for F-listed solvents because the Best Demonstrated Available Technology (BDAT) (thermal treatment) was used to treat this waste.

Management Comments N/A

Acceptance Comments Net and gross weight data are not available for all container types.

1. Variability surronding fullness of containers precludes a meaningful computation of density.

2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. The waste is packaged in 55- gallon drums lined with a rigid polyethylene liner.

Projected future generation begins in CY2005.

Final Form Comments N/A

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TWBIR ID: RF-MT0378

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W036	**Handling**	CH	**Stream Name**	Firebrick, pulverized or fines/TRM	**Inventory Date**	9/30/2002
Local ID	)C 377,378,373,37	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5123

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, F001, F002, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1.43	1.43	1.43
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	18.62	18.62	18.62
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	7.64	7.64	7.64
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.57		
Packaging Material, Plastic	8.59		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

122

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.92E+00
Np-237	2.60E-05
Pu-238	1.33E+00
Pu-239	2.84E+01
Pu-240	6.51E+00
Pu-241	1.66E+02
Pu-242	8.23E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0378

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	Projected	Total
	0.6	0.0	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	Projected	Total
	0.6	0.0	0.6

TWBIR ID: RF-MT0378

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste form is firebrick that has been crushed and pulverized.
Waste Stream Source Description	During incinerator maintenance and stripout operations, firebrick used to line the firebox (IDCs 371, 373, 377 and 378) was generated in Buildings 371 and 771. A bed liner material used in the FBI in Building 776 was also generated. This material was a sodium carbonate and sand material but was assigned IDC 371, firebrick. The following sections describe the specific wastes, by IDC, generated by the incinerators. Item Description Code 371, Firebrick Firebrick was generated during maintenance operations in the incineration systems in Building 771. This material was also generated during incinerator stripout operations in Building 371. Firebrick consists of brick and chunks of high-density alumina ceramic material used to line the firebox of the incinerator. The current inventory contains 30 drums of LLW, residues, and mixed residues. IDC 371 is mixed residue only. Item Description Code 373, Firebrick Heel During dissolution of scarfed firebrick (IDC 377 and 378), undissolved firebrick heel was generated in Building 771. Spent firebrick was subjected to a mechanical scarfing process to remove plutonium-bearing surface layers. Those layers were pulverized and subjected to a nitric acid dissolution process. The material that did not dissolve was filtered, dried, assayed, and set aside for additional processing. The current inventory contains four drums of mixed residues. IDC 373 is mixed residue only. Item Description Code 377, Coarse Firebrick During maintenance operations, coarse chunks of scarfed firebrick were generated in Building 771. This material was also generated during incinerator stripout operations in Building 371. Spent firebrick was subjected to a mechanical scarfing process to remove plutonium-bearing surface layers. Coarse firebrick consists of chunks of the unpulverized, plutonium-bearing surface layer of the high-density alumina ceramic firebrick material. The current inventory contains 66 drums of transuranic waste, mixed transuranic waste, and residues. Item Description Code 378, Scarfed Firebrick During maintenance operations, pulverized scarfed firebrick was generated in Building 771. This material was also generated during incinerator stripout operations in Building 371. Spent firebrick was subjected to a mechanical scarfing process to remove plutonium-bearing surface layers. Pulverized firebrick consists of chunks granular, fine, and very fine, plutonium-bearing surface layer of the high-density alumina ceramic firebrick material The current inventory contains 45 drums mixed transuranic waste and residues.
Current Container Comments	N/A
EPA Comments	Subpopulations IK, IL, IM, IN EPA Codes D004-D011, F001, F002, F003, and F005 were assigned to these subpopulations based on the characterization of incinerator feed materials. Based on the characterization of the feed, alcohols, glycols, halogenated solvents, and metals may have been introduced into the incinerator. Because the specific sources of the incinerator feed cannot be determined at this time, it has been assumed that the process could have accepted any of the combustible, plastic, or filter waste currently contained in the backlog that were generated during the time the incinerator was operational.

TWBIR ID: RF-MT0378

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

A report was generated from the Backlog Waste Reassessment database that summarizes the EPA codes assigned to inventory containers of combustibles (IDCs 330 and 336), plastics (337), and Ful-Flo filters (331) generated about the same time that the incinerator was operational. The following EPA codes were contained in the database for these wastes; D004-D011, D018, D019, D028, D029, D035, D038, F001, F002, F003, and F005. It was assumed that the F-listed solvents would have to be applied due to the "derived-from" rule. The codes for the D-listed metals were applied because these metals would be concentrated during incineration. However, it was assumed that the D-listed solvent would be volatilized and driven off in this process. Therefore, these solvents would not be present at levels exceeding Toxicity Characteristic Leaching Procedure (TCLP) limits due to the thermal treatment. This subpopulation is land disposal restricted due to the presence of RCRA metals. It is not land disposal restricted for F-listed solvents because the Best Demonstrated Available Technology (BDAT) (thermal treatment) was used to treat this waste.

Management Comments N/A

Acceptance Comments Net and gross weight data are not available for all container types.

1. Variability surronding fullness of containers precludes a meaningful computation of density.

2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. The waste is packaged in 55- gallon drums lined with a rigid polyethylene liner.

Final Form Comments N/A

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TWBIR ID: RF-MT0419

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-MT0419	**Handling**	CH	**Stream Name**	N/A			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3111

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, F001, F002, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	2.67	2.67	2.67
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	8.69	8.69	8.69
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	2.01	2.01	2.01
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.22		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N/A
PCBs:	N/A
Source:	N/A

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.07E-01
Np-237	8.29E-06
Pu-238	1.63E-01
Pu-239	3.46E+00
Pu-240	7.93E-01
Pu-241	2.03E+01
Pu-242	1.00E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0419

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
POC / 55 gallon	4.8	0.0	0.0	0.0	0.0	4.8

As-Generated	Stored	Projected	Total
	4.8	0.0	4.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	4.8	0.0	0.0	0.0	0.0	4.8

Final Form	Stored	Projected	Total
	4.8	0.0	4.8

TWBIR ID: RF-MT0419

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	N/A
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a mixed waste or residue, (i.e., RF-MRXXXX, or RF-MTXXXX), but has been recharacterized as non-mixed waste.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0420

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W040	**Handling**	CH	**Stream Name**	incinerator ash/TRM			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3111

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, F001, F002, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	2.67	2.67	2.67
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	8.69	8.69	8.69
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	2.01	2.01	2.01
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.57		
Packaging Material, Plastic	32.46		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Pollution Control or Waste Treatment Process

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.07E-01
Np-237	8.29E-06
Pu-238	1.63E-01
Pu-239	3.46E+00
Pu-240	7.93E-01
Pu-241	2.03E+01
Pu-242	1.00E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0420

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.8	0.0	0.0	0.0	0.0	0.8

As-Generated	Stored	0.8	Projected	0.0	Total	0.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8

Final Form	Stored	0.8	Projected	0.0	Total	0.8

TWBIR ID: RF-MT0420

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is a fire particulate ash. It could also be chunky material from moisture.
Waste Stream Source Description	This waste form consists of waste generated by the Residue Recovery Incinerator system in Building 771, Fluidized Bed Incinerator (FBI) in Building 776, and test runs by the incinerator in Building 371. The Low-Specific Activity (LSA) and High-Specific Activity (HSA) incinerators in Building 371 were developed as volume-reduction incinerators. The startup operation test used noncontaminated materials throughout the processes. The test revealed design concerns; therefore, these incinerators never became operational. No WSRIC information is available to describe this process in greater detail. The function of the Residue Recovery Incinerator was to reduce volume and destroy volatile constituents prior to plutonium recovery operations for combustible wastes from production processes (primarily IDCs 330, 331, 336, and 337). Waste feed was hand-sorted to segregate combustibles. Noncombustibles such as metal and glass were segregated and removed from the process. The by-products of this process included ash (IDCs 419, 420, 421, and 428). The FBIs in Building 776 were developed as pilot operations. Their test function was to develop new technology to reduce volume and destroy volatile constituents prior to plutonium recovery operations. The only incinerator to generate backlog waste covered by this waste form was the Full-Scale Unit. The first runs of this incinerator (1978 to 1981) used newspaper, Building 776 low-level waste (LLW), combustible waste, kerosene, garage oil, and grease as test materials. The tests were conducted with methanol, diesel products, and nonradioactive surrogate combustibles (shredded coveralls, leather gloves, rolls of polyvinyl chloride [PVC] plastic, wood, and paper). The by-product of this process was FBI ash (IDC 425). Item Description Code 419, Unpulverized Incinerator Ash Unpulverized incinerator ash was generated as an intermediate product during routine operation of the incinerator in Building 771. This material was also generated during incinerator stripout operations in Building 371. The unpulverized ash consists of a mixture of coarse, granular, fine, and very fine particulates. The ash contains miscellaneous tramp metal, bits of unburned feed material, and carbon from the incomplete oxidation of feed material. The coarse materials consist of fused ash, clinkers, or unburned materials that fell through the stationary grate of the incinerator. IDC 419 is mixed residue only. Item Description Code 420, Pulverized Incinerator Ash Pulverized incinerator ash was generated as an intermediate product during routine operation of the incinerator in Building 771. This material was also generated during incinerator stripout operations in Building 371. The pulverized ash consists of a mixture of coarse, granular, fine, and very fine particulates that have been ground by the ball mill. The ash contains miscellaneous tramp metal, bits of unburned feed material, and carbon from the incomplete oxidation of feed material. Item Description Code 421, Ash Heel During dissolution of incinerator ash (IDC 419 and 420), undissolved incinerator ash heel was generated in Building 771. Incinerator ash was subjected to a nitric acid dissolution process. The material that did not dissolve was filtered, dried, assayed, and set aside for additional processing. IDC 421 is mixed residue only. Item Description Code 425, Fluidized Bed Ash This waste is a mixture of aluminum oxide and a chromium oxide oxidation catalyst, sodium carbonate, and ash, mainly catalyst and sodium carbonate ash from Building 776. During the incineration of materials containing chloride compounds, a portion of the sodium carbonate changes to sodium chloride.

TWBIR ID: RF-MT0420

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

The Pilot-Scale FBI Unit was operated from 1971 to 1978. The first runs used PVC, polyethylene, and paper as test materials. After 1974, paint thinner from the Building 333 paint shop, tributyl phosphate, kerosene, and hydrazine hydrate were burned. Polychlorinated biphenyls (PCBs), mixed 1 part PCB to 4-5 parts diesel fuel or kerosene were burned in 1978. Unless containers of backlog waste were generated during maintenance operations of the Pilot-Scale Unit, all containers in the current inventory were generated after 1978 and are assumed to be from the Full-Scale Unit. Though the Pilot-Scale Unit burned PCBs, the ash is not Toxic Substance Control Act (TSCA) regulated. The incinerator burned at a high destruction efficiency and PCBs over the TSCA regulatory limit of 50 parts per million (ppm) are not anticipated in the ash.

The Full-Scale Unit was operated from 1978 to 1981, and again from 1985 to 1988. The first runs (1978 to 1981) used newspaper, Building 776 LLW, combustible waste, kerosene, garage oil, and grease as test materials. The tests from 1985 to 1988 were conducted with methanol, diesel products, and nonradioactive surrogate combustibles (shredded coveralls, leather gloves, rolls of PVC plastic, wood, and paper).

Item Description Code 428, Incinerator Ash

After incinerator ash (IDC 420) was generated in Building 771, this material was prepared, assayed, and packaged in Building 371, for transportation to an alternate DOE site for plutonium recovery processing. This material does not differ from incinerator ash IDC 420.

IDC 428 is mixed residue only.

Current Container Comments N/A

EPA Comments The last subpopulation consists of IDC 420 backlog containers. EPA codes D004-D011, F001, F002, F003, and F005 were assigned to this subpopulation based on the characterization of incinerator feed materials (alcohols, glycols, halogenated solvents, and metals). However, this subpopulation contained no free liquids and thus D002 is not applied.

Subpopulations 1F, 1G, 1P, and 1Q, consist of IDCs 420, 421, 423, 371, 373, 377, 378, 422, 428, and 419, respectively, for backlog inventory containers. EPA Codes D004-D011, F001, F002, F003, and F005 were assigned to this subpopulation.

Limited analytical data indicate that this waste form exceeds the LDR treatment standard for chromium. These data must complete data validation. The results to date are discussed in the Waste Characterization Report, Incinerator Ash, Item Description Codes 420 and 425.

Management Comments N/A

Acceptance Comments RFP has determined that incinerator ash is LDR waste based on available process knowledge.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. FBI ash was packaged in 55-gallon drums lined with a rigid polyethylene liner and one bag liner.

Final Form Comments N/A

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TWBIR ID: RF-MT0423

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-MT0423	**Handling**	CH	**Stream Name**	N/A			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3111

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, F001, F002, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	21.48	21.48	21.48
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	17.18	17.18	17.18
Other Inorganic Materials	35.32	35.32	35.32
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	3.44	3.44	3.44
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.22		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N/A
PCBs:	N/A
Source:	N/A

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.69E+00
Pu-238	1.06E+00
Pu-239	4.00E+01
Pu-240	8.87E+00
Pu-241	6.43E+01
Pu-242	5.15E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0423

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
POC / 55 gallon	1.0	0.0	0.0	0.0	0.0	1.0

As-Generated	Stored	1.0	Projected	0.0	Total	1.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	1.0	0.0	0.0	0.0	0.0	1.0

Final Form	Stored	1.0	Projected	0.0	Total	1.0

TWBIR ID: RF-MT0423

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Soot heel is the material remaining after acid dissolution, filtering, and drying of soot (IDC 422)."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a mixed waste or residue, (i.e., RF-MRXXXX, or RF-MTXXXX), but has been recharacterized as non-mixed waste.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0425

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W040	**Handling**	CH	**Stream Name**	incinerator ash/TRM	**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3111

EPA Codes

As-Generated
D007

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	2.67	2.67	2.67
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	8.69	8.69	8.69
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	2.01	2.01	2.01
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.57		
Packaging Material, Plastic	32.46		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Pollution Control or Waste Treatment Process

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.07E-01
Np-237	8.29E-06
Pu-238	1.63E-01
Pu-239	3.46E+00
Pu-240	7.93E-01
Pu-241	2.03E+01
Pu-242	1.00E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0425

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: RF-MT0425

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is a fire particulate ash. It could also be chunky material from moisture.
Waste Stream Source Description	This waste form consists of waste generated by the Residue Recovery Incinerator system in Building 771, Fluidized Bed Incinerator (FBI) in Building 776, and test runs by the incinerator in Building 371. The Low-Specific Activity (LSA) and High-Specific Activity (HSA) incinerators in Building 371 were developed as volume-reduction incinerators. The startup operation test used noncontaminated materials throughout the processes. The test revealed design concerns; therefore, these incinerators never became operational. No WSRIC information is available to describe this process in greater detail. The function of the Residue Recovery Incinerator was to reduce volume and destroy volatile constituents prior to plutonium recovery operations for combustible wastes from production processes (primarily IDCs 330, 331, 336, and 337). Waste feed was hand-sorted to segregate combustibles. Noncombustibles such as metal and glass were segregated and removed from the process. The by-products of this process included ash (IDCs 419, 420, 421, and 428). The FBIs in Building 776 were developed as pilot operations. Their test function was to develop new technology to reduce volume and destroy volatile constituents prior to plutonium recovery operations. The only incinerator to generate backlog waste covered by this waste form was the Full-Scale Unit. The first runs of this incinerator (1978 to 1981) used newspaper, Building 776 low-level waste (LLW), combustible waste, kerosene, garage oil, and grease as test materials. The tests were conducted with methanol, diesel products, and nonradioactive surrogate combustibles (shredded coveralls, leather gloves, rolls of polyvinyl chloride [PVC] plastic, wood, and paper). The by-product of this process was FBI ash (IDC 425). Item Description Code 419, Unpulverized Incinerator Ash Unpulverized incinerator ash was generated as an intermediate product during routine operation of the incinerator in Building 771. This material was also generated during incinerator stripout operations in Building 371. The unpulverized ash consists of a mixture of coarse, granular, fine, and very fine particulates. The ash contains miscellaneous tramp metal, bits of unburned feed material, and carbon from the incomplete oxidation of feed material. The coarse materials consist of fused ash, clinkers, or unburned materials that fell through the stationary grate of the incinerator. IDC 419 is mixed residue only. Item Description Code 420, Pulverized Incinerator Ash Pulverized incinerator ash was generated as an intermediate product during routine operation of the incinerator in Building 771. This material was also generated during incinerator stripout operations in Building 371. The pulverized ash consists of a mixture of coarse, granular, fine, and very fine particulates that have been ground by the ball mill. The ash contains miscellaneous tramp metal, bits of unburned feed material, and carbon from the incomplete oxidation of feed material. Item Description Code 421, Ash Heel During dissolution of incinerator ash (IDC 419 and 420), undissolved incinerator ash heel was generated in Building 771. Incinerator ash was subjected to a nitric acid dissolution process. The material that did not dissolve was filtered, dried, assayed, and set aside for additional processing. IDC 421 is mixed residue only. Item Description Code 425, Fluidized Bed Ash This waste is a mixture of aluminum oxide and a chromium oxide oxidation catalyst, sodium carbonate, and ash, mainly catalyst and sodium carbonate ash from Building 776. During the incineration of materials containing chloride compounds, a portion of the sodium carbonate changes to sodium chloride.

TWBIR ID: RF-MT0425

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

The Pilot-Scale FBI Unit was operated from 1971 to 1978. The first runs used PVC, polyethylene, and paper as test materials. After 1974, paint thinner from the Building 333 paint shop, tributyl phosphate, kerosene, and hydrazine hydrate were burned. Polychlorinated biphenyls (PCBs), mixed 1 part PCB to 4-5 parts diesel fuel or kerosene were burned in 1978. Unless containers of backlog waste were generated during maintenance operations of the Pilot-Scale Unit, all containers in the current inventory were generated after 1978 and are assumed to be from the Full-Scale Unit. Though the Pilot-Scale Unit burned PCBs, the ash is not Toxic Substance Control Act (TSCA) regulated. The incinerator burned at a high destruction efficiency and PCBs over the TSCA regulatory limit of 50 parts per million (ppm) are not anticipated in the ash.

The Full-Scale Unit was operated from 1978 to 1981, and again from 1985 to 1988. The first runs (1978 to 1981) used newspaper, Building 776 LLW, combustible waste, kerosene, garage oil, and grease as test materials. The tests from 1985 to 1988 were conducted with methanol, diesel products, and nonradioactive surrogate combustibles (shredded coveralls, leather gloves, rolls of PVC plastic, wood, and paper).

Item Description Code 428, Incinerator Ash

After incinerator ash (IDC 420) was generated in Building 771, this material was prepared, assayed, and packaged in Building 371, for transportation to an alternate DOE site for plutonium recovery processing. This material does not differ from incinerator ash IDC 420.

IDC 428 is mixed residue only.

Current Container Comments N/A

EPA Comments One subpopulation consists of IDC 425 materials characterized under Backlog Waste Reassessment Task 7, Event 20, but only includes the ash generated by the Full-Scale unit. EPA code D007 was assigned to the subpopulation. The characterization rationale for this subpopulation can be found in the report prepared for this event.

Another subpopulation consists of IDC 425 materials characterized under Backlog Waste Reassessment Task 7, Event 20, but only includes ash generated by the Pilot-Scale unit. EPA codes D007, F003, and F005 were assigned to the subpopulation. The characterization rationale for this subpopulation can be found in the report prepared for this event.

Subpopulation 1D consists of IDC 425 materials characterized under Task 7, Event 20 but only includes the ash generated by the Pilot-Scale Unit. EPA Codes D007, F003, and F005 were assigned to the subpopulation. Rationale for this subpopulation can be found in the report prepared for this event.

Limited analytical data indicate that this waste form exceeds the LDR treatment standard for chromium. These data must complete data validation. The results to date are discussed in the Waste Characterization Report, Incinerator Ash, Item Description Codes 420 and 425.

Management Comments N/A

Acceptance Comments RFP has determined that incinerator ash is LDR waste based on available process knowledge.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. FBI ash was packaged in 55-gallon drums lined with a rigid polyethylene liner and one bag liner.

Final Form Comments N/A

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TWBIR ID: RF-MT-0438

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W057	**Handling**	CH	**Stream Name**	Insulation/TRM			**Inventory Date**	9/30/2002
Local ID	IDC 438	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5129

EPA Codes

As-Generated
F001, F002, F005, F006, F007, F009

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	29.75	0.48	148.93
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	40.01	0.96	189.03
Cellulosics	12.89	12.89	12.89
Rubber	2.01	2.01	2.01
Plastics	15.52	1.43	47.73
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.55		
Packaging Material, Plastic	31.51		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.55E+00
Np-237	3.99E-06
Pu-238	7.10E-01
Pu-239	2.04E+01
Pu-240	4.64E+00
Pu-241	6.69E+01
Pu-242	3.89E-04
U-234	2.10E-05
U-235	6.79E-07
U-238	6.01E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT-0438

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	Projected	Total
	0.6	0.0	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	Projected	Total
	0.6	0.0	0.6

TWBIR ID: RF-MT-0438

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is contaminated insulation.
Waste Stream Source Description	Item Description Code 438 Maintenance, repair, and strip-out operations in Buildings 371, 374, 444, 559, 666, 707, 771, 774, 776, 777, 779, 865, 881, and 883 produced waste insulation. Insulation waste is generated by replacement of furnace heating elements, construction, maintenance, and demolition activities within the Protected Area at Rocky Flats. During these activities, insulation material is removed from furnaces, boilers, piping, ceilings and walls, and heating and cooling systems. WEMS data indicate that insulation waste was generated in: Building 374 Acid Neutralization, Radioactive Decontamination, Sludge Solidification, Evaporation, Spray Dryer and Saltcrete, and General Building Operations. Building 444 Maintenance Buildings 559 and 779 Utilities Building 666 Drum Repack Building 707 Foundry Operations-Module A, Casting-Module K, X-Y Retriever-Module J, Maintenance, and Modules A-H Building 771, Maintenance and General Building Waste Building 774 Microwave Process Building 776 during the replacement of furnace heating elements. Generated by construction and demolition activities.
Current Container Comments	N/A
EPA Comments	Subpopulation 53D, IDC 438, was identified based on WEMS data, IDC, and discussion with generating personnel. The insulation in this subpopulation was used on pipes, walls, and other barriers and could have come in contact with listed constituents when leaks or spills occurred. According to the generator, the insulation was visibility contaminated with sludge and salt produced in Building 374. The D-codes currently assigned to containers in this subpopulation are not appropriate based on the volume of insulation relative to the amount of caked on sludge. The following EPA Codes were assigned to this waste: F001, F002, F003, F005, F006, F007, F009, and F039. This inventory was generated in Building 374. Other EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.
Management Comments	N/A
Acceptance Comments	RFP has determined this waste to be LDR based on process knowledge characterization.

TWBIR ID: RF-MT-0438

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

	1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55 gallon drums DOT 7A TYPE A; metal boxes.
Final Form Comments	N/A

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TWBIR ID: RF-MT0440

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W052	**Handling**	CH	**Stream Name**	Glass/TRM			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5122

EPA Codes

As-Generated
D005, D008, D009, F001, F002

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	19.39	0.48	280.68
Aluminum-Base Metal/Alloys	1.38	1.38	1.38
Other Metal/Alloys	0.72	0.72	0.72
Other Inorganic Materials	184.09	3.82	415.29
Cellulosics	12.76	8.12	12.89
Rubber	0.00	0.00	0.00
Plastics	33.08	5.73	89.74
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.45		
Packaging Material, Plastic	29.31		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.22E-01
Np-237	5.75E-06
Pu-238	6.93E-02
Pu-239	2.02E+00
Pu-240	4.73E-01
Pu-241	7.52E+00
Pu-242	4.36E-05
U-234	7.20E-05
U-235	2.36E-06
U-238	7.12E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0440

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	2.3	0.0	0.0	0.0	0.0	2.3

As-Generated	Stored	Projected	Total
	2.3	0.0	2.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.3	0.0	0.0	0.0	0.0	2.3

Final Form	Stored	Projected	Total
	2.3	0.0	2.3

TWBIR ID: RF-MT0440

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is made up of glass from analytical labs, recovery processes, ceramics, and glovebox windows.
Waste Stream Source Description	IDC 440 includes glass waste from analytical laboratories and recovery processes, standard light bulbs generated inside the PA, and ceramic materials. Glass waste assigned IDC 440 was generated in Buildings 123, 371, 444, 559, 707, 771, 776, 777, 889. Raschig Rings currently in WEMS assigned IDC 442 were generated in Buildings 771, 776, and 777. Prior to being replaced, the tanks were drained and the rings were leached with dilute nitric acid or water. The rings generated in Building 771 are from the production processes and Tanks D80-D85, D0-360, D-361, D-451-D-454, D-467, D-750, D-706, D-922, D-973, D-974, D-980, D-1008, D-1013, D-1022, and D-1081. Rings generated in Building 776 are from the Size Reduction Process and Tanks SR 3,4, and 5 and as unused rings. Rings generated in Building 777 were generated by the Carbon Tetrachloride System in Tanks 1103, 1104, and 1106, Room 131, and by the Trichloroethane Collection and Filter System in Tanks T-1 and T-2, Room 430. The building 777 rings should be assigned IDC 443 as discussed in the following section. IDC 856 includes Raschig Rings which are removed from vessels containing RCRA regulated solvents. There is also glass from spent fluorescent lamps in some of these containers. This stream is generated from Facility Operations, Analytical Laboratories, and R&D Laboratories.
Current Container Comments	N/A
EPA Comments	Item Description Code 440 This IDC was separated from IDC 444 (created in 1989 specifically for ground glass and leaded glass) because the two waste forms exhibit different chemical characteristics, hazardous constituents, and EPA codes. Therefore, drums of IDC 440 materials generated prior to 1989 could contain leaded glass. These are included in Subpopulation 17G and are assigned EPA codes D005 and D008. Subpopulation 27B is assigned EPA code D009 because of mercury in the spent fluorescent lamps.
Management Comments	N/A
Acceptance Comments	RFP has determined that this grouping is LDR waste based on available process knowledge with some of the IDCs identified containing listed hazardous components. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: DOT 7A TYPE A metal boxes and DOT 7A TYPE A drums.
Final Form Comments	N/A

TWBIR ID: RF-MT0442

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W052	**Handling**	CH	**Stream Name**	Glass/TRM			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5122

EPA Codes

As-Generated
F001, F002

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	4.54	0.48	9.55
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	306.14	42.96	493.09
Cellulosics	12.84	10.50	13.37
Rubber	0.00	0.00	0.00
Plastics	21.90	5.25	50.60
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.44		
Packaging Material, Plastic	28.26		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.38E-01
Np-237	9.86E-07
Pu-238	8.27E-02
Pu-239	1.91E+00
Pu-240	4.36E-01
Pu-241	7.68E+00
Pu-242	3.95E-05
U-234	1.14E-04
U-235	3.52E-06
U-238	3.87E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0442

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.8	0.0	0.0	0.0	0.0	0.8

As-Generated	Stored	Projected	Total
	0.8	0.0	0.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8

Final Form	Stored	Projected	Total
	0.8	0.0	0.8

TWBIR ID: RF-MT0442

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is made up of Raschig Rings which are borosilicate glass rings used to maintain subcritical conditions in fissile storage tanks.
Waste Stream Source Description	IDC 440 includes glass waste from analytical laboratories and recovery processes, standard light bulbs generated inside the PA, and ceramic materials. Glass waste assigned IDC 440 was generated in Buildings 123, 371, 444, 559, 707, 771, 776, 777, 889. Raschig Rings currently in WEMS assigned IDC 442 were generated in Buildings 771, 776, and 777. Prior to being replaced, the tanks were drained and the rings were leached with dilute nitric acid or water. The rings generated in Building 771 are from the production processes and Tanks D80-D85, D0-360, D-361, D-451-D-454, D-467, D-750, D-706, D-922, D-973, D-974, D-980, D-1008, D-1013, D-1022, and D-1081. Rings generated in Building 776 are from the Size Reduction Process and Tanks SR 3,4, and 5 and as unused rings. Rings generated in Building 777 were generated by the Carbon Tetrachloride System in Tanks 1103, 1104, and 1106, Room 131, and by the Trichloroethane Collection and Filter System in Tanks T-1 and T-2, Room 430. The building 777 rings should be assigned IDC 443 as discussed in the following section. IDC 856 includes Raschig Rings which are removed from vessels containing RCRA regulated solvents. There is also glass from spent fluorescent lamps in some of these containers. This stream is generated from Facility Operations, Analytical Laboratories, and R&D Laboratories.
Current Container Comments	N/A
EPA Comments	Item Description Code 442 In addition to the reference documents and WEMs information used, analytical data compiled by EG&G Rocky Flats were reviewed. The data shows that the concentrations of Toxicity Characteristic (TC) metals barium, cadmium, chromium, lead, and silver were well below regulated levels provided in 6 CCR 1007-3, Section 261.24. Subpopulation 17F includes Raschig Rings assigned IDC 442 that are contaminated with carbon tetrachloride, 1,1,1-trichloroethane, or both. Based on analytical data, Raschig Rings do not exhibit the characteristic of toxicity for metals. All containers in this group were generated in Building 777 according to WEMS. Rings generated in Building 777 were generated by the Carbon Tetrachloride System in Tanks 1103, 1104, and 1106, Room 131, and by the Trichloroethane Collection and Filter System in Tanks T-1 and T-2, Room 430. Therefore, it is assumed that these rings are all contaminated with carbon tetrachloride or 1,1,1-trichloroethane sludge. They are, therefore, assigned EPA Waste Codes F001 and F002.
Management Comments	N/A
Acceptance Comments	RFP has determined that this grouping is LDR waste based on available process knowledge with some of the IDCs identified containing listed hazardous components. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: DOT 7A TYPE A metal boxes and DOT 7A TYPE A drums.
Final Form Comments	N/A

TWBIR ID: RF-MT0443

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W052	**Handling**	CH	**Stream Name**	Glass/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5122

EPA Codes

As-Generated
F001, F002, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	337.60	0.96	542.74
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	19.65	7.16	33.41
Solidified, Inorganic Matrix	0.96	0.96	0.96
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.44		
Packaging Material, Plastic	24.56		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Materials Production/Decontamination and Decommissioning

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.93E-02
Np-237	1.10E-07
Pu-238	5.86E-02
Pu-239	1.28E+00
Pu-240	2.92E-01
Pu-241	6.89E+00
Pu-242	3.44E-05
U-234	8.16E-06
U-235	3.34E-07
U-238	7.68E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0443

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	19.3	0.0	0.0	0.0	0.0	19.3

As-Generated	Stored	Projected	Total
	19.3	0.0	19.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	19.4	0.0	0.0	0.0	0.0	19.4

Final Form	Stored	Projected	Total
	19.4	0.0	19.4

TWBIR ID: RF-MT0443

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Rachig rings leached with dilute nitric acid or water, and rinsed with carbon tetrachloride or 1,1,1-trichloroethane prior to removal from process tanks."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	EPA hazardous waste numbers are assigned to this waste stream based on process knowledge.
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0444

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W032	**Handling**	CH	**Stream Name**	Ground Leaded Glass/TRM			**Inventory Date**	9/30/2002
Local ID	IDC 444, 855	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5122

EPA Codes

As-Generated
D005, D006, D009

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	22.38	0.33	53.91
Aluminum-Base Metal/Alloys	1.10	1.11	4.03
Other Metal/Alloys	85.37	0.10	538.87
Other Inorganic Materials	300.89	1.00	677.82
Cellulosics	9.20	4.31	12.89
Rubber	16.05	3.00	44.67
Plastics	16.43	3.20	41.58
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	212.47		
Packaging Material, Plastic	16.61		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.66E-01
Np-237	3.21E-06
Pu-238	1.23E-01
Pu-239	2.63E+00
Pu-240	6.03E-01
Pu-241	1.53E+01
Pu-242	7.60E-05
U-234	4.97E-07
U-235	1.60E-08
U-238	1.42E-10

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0444

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8802 Can	0.0	0.0	0.0	0.0	0.0	0.0
8804 Can	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	15.8	1.0	0.0	0.0	0.0	16.8
POC / 55 gallon	7.7	0.0	0.0	0.0	0.0	7.7
Standard Waste Box	19.0	0.0	0.0	0.0	0.0	19.0

As-Generated	Stored	42.5	Projected	1.0	Total	43.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	16.3	0.0	0.0	0.0	0.0	17.3
55 Gallon POCs	7.7	0.0	0.0	0.0	0.0	7.7
Standard Waste Box	18.9	0.0	0.0	0.0	0.0	18.9

Final Form	Stored	42.9	Projected	1.0	Total	43.9

TWBIR ID: RF-MT0444

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Matrix consits of crushed glass light bulbs and leaded glass that is crushed on removal.
Waste Stream Source Description	Item Description Code 444--Ground Glass and Leaded Glovebox Glass This IDC includes ground fluorescent bulbs and leaded glass used throughout the plutonium-and uranium-processing areas. The material was generated as waste or residue when glovebox glass was replaced, or as low-level waste when fluorescent light bulbs were replaced. IDC 444 materials in the backlog inventory were generated in Building 371, 374, 559, 707, 771, and 776. Item Description Code 855-Ground Glass This IDC includes ground glass from fluorescent light bulbs. It can be used for waste generated outside the PA and for nonline-generated waste. In other words, it can only be used for low-level mixed waste.
Current Container Comments	N/A
EPA Comments	Analytical data showed the presence of toxic metals in some containers of IDC 444. Based on these analytical data, these materials are characterized as hazardous and assigned EPA codes D005 and D008. Analytical data for IDC 855 show that there are enough cases where the samples fail the Toxicity Characteristic Leaching Procedure (TCLP), that the waste bulbs should be managed as hazardous waste and assigned the EPA code D009. EPA codes are assigned to newly generated waste by the generator based on process knowledge. Subpopulation 17G includes containers of leaded glovebox glass. Based on analytical data, these materials are characterized as hazardous and assigned EPA Waste Codes.
Management Comments	N/A
Acceptance Comments	LDR_DETERM: Net and gross weight data are not available for all container types. RFP has assumed this waste to be LDR based on the fact that it is a RCRA listed waste. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: The glass waste is packaged in 55- gallon drums that are lined with one fiberboard liner and two polyethylene bags or metal boxes. Drums are placed in TRUPACT II containers.
Final Form Comments	N/A

TWBIR ID: RF-MT0480

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W011	**Handling**	CH	**Stream Name**	LIGHT METAL/TRM			**Inventory Date**	9/30/2002
Local ID	IDC 480	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Lead/Cadmium Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D011, D019, F001, F002, F005, F006, F007, F009

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	243.09	10.50	1279.27
Aluminum-Base Metal/Alloys	42.78	0.68	521.26
Other Metal/Alloys	41.63	1.81	444.40
Other Inorganic Materials	8.09	0.14	87.45
Cellulosics	7.30	4.31	12.89
Rubber	2.94	0.33	7.86
Plastics	12.21	1.63	76.85
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.03	0.04	0.04
Soils	0.00	0.00	0.00
Packaging Material, Steel	147.71		
Packaging Material, Plastic	13.02		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.31E-01
Cs-137	6.22E-05
Np-237	1.36E-06
Pu-238	1.31E-01
Pu-239	2.81E+00
Pu-240	6.43E-01
Pu-241	1.50E+01
Pu-242	7.50E-05
U-234	2.07E-05
U-235	6.70E-07
U-238	3.31E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0480

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / Metal	6.3	0.0	0.0	0.0	0.0	6.3
Drum / 55 gallon	27.2	10.4	0.0	0.0	0.0	37.6
Standard Waste Box	66.5	0.0	0.0	0.0	0.0	66.5

As-Generated	Stored	Projected	Total
	100.1	10.4	110.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	27.3	0.0	0.0	0.0	0.0	37.7
Standard Waste Box	69.9	0.0	0.0	0.0	0.0	69.9

Final Form	Stored	Projected	Total
	97.2	10.4	107.7

TWBIR ID: RF-MT0480

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is metal tools, etc. generated during glovebox operations.
Waste Stream Source Description	The one container of IDC 480, Light metal, in this waste form was generated in Building 707, Module K, in April 1991. The metal in this container is line generated material.
Current Container Comments	N/A
EPA Comments	All waste with D001, D002, and D003 codes will be processed or repackaged prior to shipment to WIPP per Geoff Asmus. EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.
Management Comments	N/A
Acceptance Comments	Rocky Flats assays wastes to determine waste type instead of relying on process knowledge or historical data. For this reason, the potential for reclassification has not been analyzed. RFP has assumed this waste to be LDR based on process knowledge characterization. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. Waste is packaged in 55 gallon DOT 7A Type A Drums. The drums are lined with one rigid polyethylene liner and several bag liners.
Final Form Comments	N/A

TWBIR ID: RF-MT0488

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W011	**Handling**	CH	**Stream Name**	Metal/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5112

EPA Codes

As-Generated
D008

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	234.15	4.77	630.51
Aluminum-Base Metal/Alloys	0.42	155.14	155.14
Other Metal/Alloys	83.76	10.51	573.29
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	4.33	4.31	12.89
Rubber	23.36	0.53	109.24
Plastics	4.62	1.94	25.78
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	152.73		
Packaging Material, Plastic	11.11		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	General Building Waste and Decommissioning

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.54E-01
Np-237	2.50E-06
Pu-238	4.44E-02
Pu-239	9.46E-01
Pu-240	2.17E-01
Pu-241	5.54E+00
Pu-242	2.74E-05
U-234	5.89E-05
U-235	1.90E-06
U-238	1.68E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0488

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.8	0.0	0.0	0.0	0.0	0.8
Standard Waste Box	114.0	195.7	0.0	0.0	0.0	309.7

As-Generated	Stored	Projected	Total
	114.8	195.7	310.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8
Standard Waste Box	113.4	0.0	0.0	0.0	0.0	308.1

Final Form	Stored	Projected	Total
	114.2	194.7	308.9

TWBIR ID: RF-MT0488

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"This waste consists of lead tape and/or lead shielding from within the glovebox system, or glovebox parts with bonded lead"
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	EPA hazardous waste numbers are assigned to this waste stream based on process knowledge.
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0490

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W066	**Handling**	CH	**Stream Name**	Filters and Media/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
F001, F002, F005, F006, F007, F009

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	8.36	0.53	12.77
Aluminum-Base Metal/Alloys	18.42	5.49	44.24
Other Metal/Alloys	11.24	11.24	11.24
Other Inorganic Materials	11.37	1.94	72.51
Cellulosics	4.31	4.31	4.31
Rubber	12.91	0.77	44.24
Plastics	6.45	2.68	11.09
Solidified, Inorganic Matrix	3.84	3.84	3.84
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	44.06	44.06	44.06
Packaging Material, Steel	152.73		
Packaging Material, Plastic	2.49		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	Y
PCBs:	N
Source:	Waste Treatment/Decontamination and Decommissioning

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.41E-01
Np-237	1.53E-06
Pu-238	7.17E-02
Pu-239	1.55E+00
Pu-240	3.55E-01
Pu-241	8.48E+00
Pu-242	4.23E-05
U-234	5.94E-06
U-235	3.96E-07
U-238	3.50E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0490

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
1/2 Wood Box	1.6	0.0	0.0	0.0	0.0	1.6

As-Generated	Stored	Projected	Total
	1.6	0.0	1.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	Projected	Total
	1.9	0.0	1.9

TWBIR ID: RF-MT0490

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"HEPA filters (24 x 24), not acid contaminated, are large HEPA filters used in the filter plenums of plutonium processing buildings to filter room and glovebox air. The materials of construction consist of a filter medium contained within a wood frame. Older medium consisted of glass fiber with a small percentage of asbestos and a corrugated aluminum foil. Newer medium is constructed of glass and aromatic polyamide fibers (Nomex) and aluminum alloy metal. Wood filter frames are constructed of ¼-inch fire retardant exterior grade plywood, or particle board."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	All waste with D001, D002, and D003 codes will be processed or repackaged prior to shipment to WIPP per Geoff Asmus. EPA hazardous waste numbers are assigned to this waste stream based on process knowledge.
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT-0491

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W066	**Handling**	CH	**Stream Name**	Filters & media/TRM			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
D008, D010, F001, F002, F005, F006, F007, F009

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	9.55	9.55	9.55
Aluminum-Base Metal/Alloys	13.46	4.77	25.78
Other Metal/Alloys	3.34	3.34	3.34
Other Inorganic Materials	16.57	2.86	46.30
Cellulosics	12.89	12.89	12.89
Rubber	0.96	0.48	1.43
Plastics	20.80	10.98	34.37
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.46		
Packaging Material, Plastic	24.64		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

119

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.13E-02
Np-237	5.04E-07
Pu-238	9.89E-03
Pu-239	2.12E-01
Pu-240	4.85E-02
Pu-241	1.20E+00
Pu-242	5.98E-06
U-234	3.22E-06
U-235	2.73E-07
U-238	9.18E-10

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT-0491

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	Projected	Total
	0.6	0.0	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	Projected	Total
	0.6	0.0	0.6

TWBIR ID: RF-MT-0491

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description

491 - Room air exhaust filters only. This waste must be collected in 55-gallon or 35-gallon drums for assay.

Waste Stream Source Description

Item Description Code 328-Ful-Flo Filters From Building 771 Incinerator

These Ful-Flo filters are in-line cartridge filters used to remove particulates from specific fluid streams in Building 771.

During normal process operations, IDC 328 Ful-Flo filters in the backlog population were used to filter particulates from the incinerator fume scrubber system in Building 771. These filters were used for the filtration of caustic solutions; therefore, they are contaminated with bases and may contain free liquids.

During normal process operations, IDC 331 Ful-Flo filters in this backlog population were used to filter particulates from liquid waste streams in Buildings 371, 707, 771, 776, 777, and 779. These waste streams were primarily from filtration of caustic solutions in Building 371, the carbon tetrachloride system and oil systems, and from filtration of water and developer in Building 707. In Building 771, the primary waste streams filtered were anion column feed, potassium hydroxide, nitrate feed, spent nitric acid and hydrofluoric acid from the scrubber, eluate and effluent exiting the ion-exchange columns, floor pick-up solution were filtered in Building 776. In Buildings 777 and 779, Ful-Flo filters were used in the carbon tetrachloride system for purification of Freon TF and for filtration of incoming waters.

Typically, Ful-Flo filters were placed on drying racks pending bag-out of a glovebox. Filters were not always dried before removal from the glovebox. Filters were then "bagged out" of the glovebox and placed in a second layer of plastic. Next, the filters were placed in a "Poly bottle" or "Clam Shell" (hard plastic container), then placed in a double-lined drum.

Item Description Code-331 Ful-Flo filters Not From Incinerator

These Ful-Flo filters are in-line cartridge filters used throughout Rocky Flats to remove particulates from fluid streams and typically filter down to 5,1, and 0.5 micron-sized particulates. Ful-Flo filters are used in various liquid systems that include nitric- and chloride-acid systems, such as those found in plutonium recovery operations; caustic systems, such as those found in utilities scrubbing; solvent systems using carbon tetrachloride in machining operations; water systems, such as steam cleaning; and condensate collection. These filters are also used in lubricant oil filtration.

Ful-Flo filters are poly-fiber-wound cartridges, about 10" long by 3.5" in diameter. Other fiber filters, such as R-6 pads, may be included in this IDC. R-6 pads are cloth filters, about sixteen inches in diameter, used to filter solids from nitric acid solutions. Therefore, backlog material in this IDC cannot be considered homogeneous. Filter elements are produced by combining a media blanket and spirally wound matrix yarn on an inner core. The filter elements might have a polypropylene cap on one end. Both the media blanket and matrix yarn can be cotton or polypropylene. The inner core material can be constructed of polypropylene, tinned steel, or stainless steel. Warehouse data from Rocky Flats indicate that the inner-core material is polypropylene.

During normal process operations, IDC 331 Ful-Flo filters in this backlog population were used to filter particulates from liquid waste streams in Buildings 371, 707, 771, 776, 777, and 779. These waste streams were primarily from filtration of caustic solutions in Building 371, the carbon tetrachloride system and oil systems, and from filtration of water and developer in Building 707. In Building 771, the primary waste streams filtered were anion column feed, potassium hydroxide, nitrate feed, spent nitric acid and hydrofluoric acid from the scrubber, eluate and effluent exiting the ion-exchange columns, floor pick-up solution, steam condensate, and miscellaneous aqueous solutions. Hydraulic oil and floor pick-up solution were filtered in Building 776. In Buildings 777 and 779, Ful-Flo filters were used in the carbon tetrachloride system for purification of Freon TF and for filtration of incoming waters.

Typically, Ful-Flo filters were placed on drying racks pending bag-out of a glovebox. Filters were not always dried before removal from the glovebox. Filters were then "bagged out'"of the glovebox and placed in a second layer of plastic. Next, the filters were placed in a "Poly Bottle" or "Clam Shell" (hard plastic container), then placed in a double-lined drum.

These Ful-Flo filters may be contaminated with acids, bases, carbon tetrachloride, chromium, Freon, and oil. They may contain relatively small amounts of free liquids.

TWBIR ID: RF-MT-0491

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Item Description Code 335-HEPA Glovebox Filters, Not Acid Contaminated

The material in this IDC is High Efficiency Particulate Air (HEPA) filters used in ventilation systems at Rocky Flats. HEPA filters have been and are used in all of the buildings which contain plutonium processing activities. HEPA filters are used on gloveboxes and in large filter plenums that filter the room air.

Used filters were removed from their position in the ventilation system and packaged for further processing. The filters used on gloveboxes (nominal 8" x 8" x 5") were identified as IDC 335 if they were not acid contaminated.

Item Description Code 342-HEPA Glovebox Filters, Acid Contaminated

HEPA filters are used on all gloveboxes to remove particulates from the atmosphere exiting the glovebox to the plenum exhaust system. The filters in IDC 342 are from gloveboxes with atmospheres that could cause the filters to be contaminated with acids or bases used in chemical processing.

Item Description Code 491-Plenum Prefilters

The material in this IDC is a variety of plenum prefilters used in the ventilation systems at Rocky Flats. Plenum prefilters have been and are used in all of the buildings that contain plutonium processing activities. These prefilters are used in large plenums that filter the room and glovebox air. Used prefilters were removed from their position in the ventilation system and packaged for further processing.

IDC 491 plenum prefilters range from furnace-type filters to pleated fiberglass filters and can be as large as 24" x 24" x 12". The filter medium consists of fiberglass packing or paper which may be more or less dense, depending on filtering needs. Wire mesh can be used to hold the media in place. The frame material for these prefilters is cardboard.

Item Description Code 492-HEPA Filters (24" x 24"), Acid Contaminated

The material in this IDC is HEPA filters used in the ventilation systems at Rocky Flats. HEPA filters have been and are used in all of the buildings which contain plutonium processing activities. HEPA filters are used on gloveboxes and in large plenums that filter the room and glovebox air.

Used filters were removed from their position in the ventilation system and packaged for further processing. The larger-sized filters used in filters plenums were identified and packaged as IDC 492 if acid contaminated.

IDC 492 HEPA filters (24" x 24"), acid contaminated, are large HEPA filters (nominal 24" x 24" x 5" or 24" x 24" x 12") that were used in filter plenum racks. These filters consist of filter media contained within a wooden or metal frame.

This waste form is generated from Facility/Equipment Operation, Maintenance, Analytical Laboratories, R&D Laboratories, D&D, and limited Emergency Response actions.

Current Container Comments N/A

EPA Comments Subpopulation 54HB includes wastes which were originally characterized as nonhazardous and assigned to Subpopulation 54HA, IDC 491 filters. Based on a Nonconformance Report, a lead lined glove (potentially acid-contaminated) has been identified in one container. Therefore, the waste may exhibit the characteristic for lead (D008).

WSRIC Process Number 374-6-36 consists of prefilters from the 321 Plenum in Building 374. According to process knowledge and supported by analytical data (sample Nos. 00Z1264 and 00Z1273), this output exhibits the RCRA hazardous characteristic of toxicity due to the presence of selenium. This output has come into contact with spent solvents and, therefore, meets the definition of an F-listed waste.

TWBIR ID: RF-MT-0491

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Management Comments	N/A
Acceptance Comments	1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: Filter waste is packaged in 55-gallon drums and metal standard waste boxes.
Final Form Comments	N/A

TWBIR ID: RF-MT0523A

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W013	**Handling**	CH	**Stream Name**	Solidified Organics/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3219

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D022, D027, D028, D029, D032, D033, D034, D043, F001, F002, F005, F006, F007, F009, P030, P098, P099, P106, U003, U103, U108

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	36.82	8.59	150.41
Aluminum-Base Metal/Alloys	6.86	0.91	10.41
Other Metal/Alloys	12.60	2.58	21.24
Other Inorganic Materials	21.10	8.50	44.39
Cellulosics	0.00	0.00	0.00
Rubber	1.53	1.53	1.53
Plastics	30.65	19.52	55.37
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	18.40	0.96	40.24
Soils	0.00	0.00	0.00
Packaging Material, Steel	250.10		
Packaging Material, Plastic	29.98		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.75E+00
Np-237	1.82E-05
Pu-238	4.54E-01
Pu-239	9.69E+00
Pu-240	2.22E+00
Pu-241	5.64E+01
Pu-242	2.80E-04
U-234	2.37E-05
U-235	3.25E-05
U-238	3.78E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0523A

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8801 Can	0.0	0.0	0.0	0.0	0.0	0.0
8802 Can	0.0	0.0	0.0	0.0	0.0	0.0
Can / 1-Liter	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	4.4	0.0	0.0	0.0	0.0	4.4
POC / 55 gallon	3.1	0.0	0.0	0.0	0.0	3.1

As-Generated	Stored	Projected	Total
	7.5	0.0	7.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	7.7	0.0	0.0	0.0	0.0	7.7
55 Gallon POCs	3.1	0.0	0.0	0.0	0.0	3.1

Final Form	Stored	Projected	Total
	10.8	0.0	10.8

TWBIR ID: RF-MT0523A

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This output is predominantly consolidated excess solid sample material and solid remnants of processed sample materials. This output contains greater than 50% by volume organic particulates.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	All waste with D001, D002, and D003 codes will be processed or repackaged prior to shipment to WIPP per Geoff Asmus. EPA hazardous waste numbers are assigned to this waste stream based on process knowledge.
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0523B

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W013	**Handling**	CH	**Stream Name**	Solidified Organics/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3900

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D022, D027, D028, D029, D032, D033, D034, D043, F001, F002, F005, F006, F007, F009, P030, P098, P099, P106, U003, U103, U108

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	36.82	8.59	150.41
Aluminum-Base Metal/Alloys	6.86	0.91	10.41
Other Metal/Alloys	12.60	2.58	21.24
Other Inorganic Materials	21.10	8.50	44.39
Cellulosics	0.00	0.00	0.00
Rubber	1.53	1.53	1.53
Plastics	30.65	19.52	55.37
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	18.40	0.96	40.24
Soils	0.00	0.00	0.00
Packaging Material, Steel	250.10		
Packaging Material, Plastic	29.98		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.75E+00
Np-237	1.82E-05
Pu-238	4.54E-01
Pu-239	9.69E+00
Pu-240	2.22E+00
Pu-241	5.64E+01
Pu-242	2.80E-04
U-234	2.37E-05
U-235	3.25E-05
U-238	3.78E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0523B

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8801 Can	0.0	0.0	0.0	0.0	0.0	0.0
8802 Can	0.0	0.0	0.0	0.0	0.0	0.0
Can / 1-Liter	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	4.4	0.0	0.0	0.0	0.0	4.4
POC / 55 gallon	3.1	0.0	0.0	0.0	0.0	3.1

As-Generated	Stored	Projected	Total
	7.5	0.0	7.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	7.7	0.0	0.0	0.0	0.0	7.7
55 Gallon POCs	3.1	0.0	0.0	0.0	0.0	3.1

Final Form	Stored	Projected	Total
	10.8	0.0	10.8

TWBIR ID: RF-MT0523B

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This output is predominantly consolidated excess solid sample material and solid remnants of processed sample materials but may also contain some sample vials and foil pans generated in the analytical processes. This output contains at least 50% by volume homogeneous solids.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	All waste with D001, D002, and D003 codes will be processed or repackaged prior to shipment to WIPP per Geoff Asmus. EPA hazardous waste numbers are assigned to this waste stream based on process knowledge.
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0523C

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W013	**Handling**	CH	**Stream Name**	Solidified Organics/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D022, D027, D028, D029, D032, D033, D034, D043, F001, F002, F005, F006, F007, F009, P030, P098, P099, P106, U003, U103, U108

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	36.82	8.59	150.41
Aluminum-Base Metal/Alloys	6.86	0.91	10.41
Other Metal/Alloys	12.60	2.58	21.24
Other Inorganic Materials	21.10	8.50	44.39
Cellulosics	0.00	0.00	0.00
Rubber	1.53	1.53	1.53
Plastics	30.65	19.52	55.37
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	18.40	0.96	40.24
Soils	0.00	0.00	0.00
Packaging Material, Steel	250.10		
Packaging Material, Plastic	29.98		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	Y
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

121

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.75E+00
Np-237	1.82E-05
Pu-238	4.54E-01
Pu-239	9.69E+00
Pu-240	2.22E+00
Pu-241	5.64E+01
Pu-242	2.80E-04
U-234	2.37E-05
U-235	3.25E-05
U-238	3.78E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0523C

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8801 Can	0.0	0.0	0.0	0.0	0.0	0.0
8802 Can	0.0	0.0	0.0	0.0	0.0	0.0
Can / 1-Liter	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	4.4	0.0	0.0	0.0	0.0	4.4
POC / 55 gallon	3.1	0.0	0.0	0.0	0.0	3.1

As-Generated	Stored	Projected	Total
	7.5	0.0	7.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	7.7	0.0	0.0	0.0	0.0	7.7
55 Gallon POCs	3.1	0.0	0.0	0.0	0.0	3.1

Final Form	Stored	Projected	Total
	10.8	0.0	10.8

TWBIR ID: RF-MT0523C

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"This waste stream consists of greater than 50% by volume inorganic debris from decontamination and decommissioning activities. May contain excess solid sample material, and solid remnants of processed sample materials generated in the analytical processes. "
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	All waste with D001, D002, and D003 codes will be processed or repackaged prior to shipment to WIPP per Geoff Asmus. EPA hazardous waste numbers are assigned to this waste stream based on process knowledge.
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0523D

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W013	**Handling**	CH	**Stream Name**	Solidified Organics/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D022, D027, D028, D029, D032, D033, D034, D043, F001, F002, F005, F006, F007, F009, P030, P098, P099, P106, U003, U103, U108

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	36.82	8.59	150.41
Aluminum-Base Metal/Alloys	6.86	0.91	10.41
Other Metal/Alloys	12.60	2.58	21.24
Other Inorganic Materials	21.10	8.50	44.39
Cellulosics	0.00	0.00	0.00
Rubber	1.53	1.53	1.53
Plastics	30.65	19.52	55.37
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	18.40	0.96	40.24
Soils	0.00	0.00	0.00
Packaging Material, Steel	250.10		
Packaging Material, Plastic	29.98		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	Y
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

121

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.75E+00
Np-237	1.82E-05
Pu-238	4.54E-01
Pu-239	9.69E+00
Pu-240	2.22E+00
Pu-241	5.64E+01
Pu-242	2.80E-04
U-234	2.37E-05
U-235	3.25E-05
U-238	3.78E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0523D

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8801 Can	0.0	0.0	0.0	0.0	0.0	0.0
8802 Can	0.0	0.0	0.0	0.0	0.0	0.0
Can / 1-Liter	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	4.4	0.0	0.0	0.0	0.0	4.4
POC / 55 gallon	3.1	0.0	0.0	0.0	0.0	3.1

As-Generated	Stored	Projected	Total
	7.5	0.0	7.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	7.7	0.0	0.0	0.0	0.0	7.7
55 Gallon POCs	3.1	0.0	0.0	0.0	0.0	3.1

Final Form	Stored	Projected	Total
	10.8	0.0	10.8

TWBIR ID: RF-MT0523D

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"This waste stream consists of greater than 50% by volume organic debris from decontamination and decommissioning activities. May contain excess solid sample material, and solid remnants of processed sample materials generated in the analytical processes. "
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	All waste with D001, D002, and D003 codes will be processed or repackaged prior to shipment to WIPP per Geoff Asmus. EPA hazardous waste numbers are assigned to this waste stream based on process knowledge.
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0523E

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W013	**Handling**	CH	**Stream Name**	Solidified Organics/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5490

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D022, D027, D028, D029, D032, D033, D034, D043, F001, F002, F005, F006, F007, F009, P030, P098, P099, P106, U003, U103, U108

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	36.82	8.59	150.41
Aluminum-Base Metal/Alloys	6.86	0.91	10.41
Other Metal/Alloys	12.60	2.58	21.24
Other Inorganic Materials	21.10	8.50	44.39
Cellulosics	0.00	0.00	0.00
Rubber	1.53	1.53	1.53
Plastics	30.65	19.52	55.37
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	18.40	0.96	40.24
Soils	0.00	0.00	0.00
Packaging Material, Steel	250.10		
Packaging Material, Plastic	29.98		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	Y
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

121

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.75E+00
Np-237	1.82E-05
Pu-238	4.54E-01
Pu-239	9.69E+00
Pu-240	2.22E+00
Pu-241	5.64E+01
Pu-242	2.80E-04
U-234	2.37E-05
U-235	3.25E-05
U-238	3.78E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0523E

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8801 Can	0.0	0.0	0.0	0.0	0.0	0.0
8802 Can	0.0	0.0	0.0	0.0	0.0	0.0
Can / 1-Liter	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	4.4	0.0	0.0	0.0	0.0	4.4
POC / 55 gallon	3.1	0.0	0.0	0.0	0.0	3.1

As-Generated	Stored	Projected	Total
	7.5	0.0	7.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	7.7	0.0	0.0	0.0	0.0	7.7
55 Gallon POCs	3.1	0.0	0.0	0.0	0.0	3.1

Final Form	Stored	Projected	Total
	10.8	0.0	10.8

TWBIR ID: RF-MT0523E

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"This waste stream consists of debris from decontamination and decommissioning activities and may contain excess solid sample material, and solid remnants of processed sample materials generated in the analytical processes. This output contains at least 50% by volume debris waste."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	All waste with D001, D002, and D003 codes will be processed or repackaged prior to shipment to WIPP per Geoff Asmus. EPA hazardous waste numbers are assigned to this waste stream based on process knowledge.
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0531

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W013	**Handling**	CH	**Stream Name**	Solidified Organics/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3229

EPA Codes

As-Generated
F001, F002, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	701.69	701.69	701.69
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.43		
Packaging Material, Plastic	17.18		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

126

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	3.88E-03
Pu-239	8.27E-02
Pu-240	1.89E-02
Pu-241	4.84E-01
Pu-242	2.40E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0531

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RF-MT0531

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Miscellaneous organic sludge consists of solid materials removed from process piping and equipment during deactivation and decontamination and decommissioning activities in plutonium buildings.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	EPA hazardous waste numbers are assigned to this waste stream based on process knowledge.
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0532E

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W068	**Handling**	CH	**Stream Name**	Particulate Sludge/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D035, D040, F001, F002, F005, F006, F007, F009

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	19.44	0.96	42.96
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	23.87	23.87	23.87
Other Inorganic Materials	92.37	1.43	493.57
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	15.87	2.20	41.05
Solidified, Inorganic Matrix	80.40	0.48	339.39
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	288.04		
Packaging Material, Plastic	27.26		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

122, 130

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.50E+00
Np-237	1.87E-04
Pu-238	6.73E-01
Pu-239	1.47E+01
Pu-240	3.35E+00
Pu-241	8.33E+01
Pu-242	4.88E-04
U-234	7.08E-05
U-235	2.61E-06
U-238	4.60E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0532E

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8801 Can	0.0	0.0	0.0	0.0	0.0	0.0
8802 Can	0.0	0.0	0.0	0.0	0.0	0.0
8804 Can	0.0	0.0	0.0	0.0	0.0	0.0
Can / 1-Liter	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	5.8	0.0	0.0	0.0	0.0	5.8
POC / 55 gallon	6.0	0.0	0.0	0.0	0.0	6.0
Slip Lid Can	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated	Stored	11.9	Projected	0.0	Total	11.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	9.6	0.0	0.0	0.0	0.0	9.6
55 Gallon POCs	6.0	0.0	0.0	0.0	0.0	6.0

Final Form	Stored	15.6	Projected	0.0	Total	15.6

TWBIR ID: RF-MT0532E

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"This output is greater than 50% by volume inorganic particulates, predominantly consolidated excess solid sample material and solid remnants of processed sample materials and includes absorbed inorganic liquids and small quantities of other inorganic process sludges."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	All waste with D001, D002, and D003 codes will be processed or repackaged prior to shipment to WIPP per Geoff Asmus. EPA hazardous waste numbers are assigned to this waste stream based on process knowledge.
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0532F

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W068	**Handling**	CH	**Stream Name**	Particulate Sludge/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5129

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D035, D040, F001, F002, F005, F006, F007, F009

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	19.44	0.96	42.96
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	23.87	23.87	23.87
Other Inorganic Materials	92.37	1.43	493.57
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	15.87	2.20	41.05
Solidified, Inorganic Matrix	80.40	0.48	339.39
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	288.04		
Packaging Material, Plastic	27.26		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

122, 130

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.50E+00
Np-237	1.87E-04
Pu-238	6.73E-01
Pu-239	1.47E+01
Pu-240	3.35E+00
Pu-241	8.33E+01
Pu-242	4.88E-04
U-234	7.08E-05
U-235	2.61E-06
U-238	4.60E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0532F

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8801 Can	0.0	0.0	0.0	0.0	0.0	0.0
8802 Can	0.0	0.0	0.0	0.0	0.0	0.0
8804 Can	0.0	0.0	0.0	0.0	0.0	0.0
Can / 1-Liter	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	5.8	0.0	0.0	0.0	0.0	5.8
POC / 55 gallon	6.0	0.0	0.0	0.0	0.0	6.0
Slip Lid Can	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated	Stored	11.9	Projected	0.0	Total	11.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	9.6	0.0	0.0	0.0	0.0	9.6
55 Gallon POCs	6.0	0.0	0.0	0.0	0.0	6.0

Final Form	Stored	15.6	Projected	0.0	Total	15.6

TWBIR ID: RF-MT0532F

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Miscellaneous inorganic solids consists of inorganic debris materials such as mercury switches, thermometers, paint related materials such as dried paint, paint chips, floor sweepings with paint chips, and paint contaminated wipes, brushes, cartons, and pails, foreign materials, e.g., bolts, nuts, screws, glass, graphite, etc. separated from various foundry and scrape out IDCs, and excess sample containers. "
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	All waste with D001, D002, and D003 codes will be processed or repackaged prior to shipment to WIPP per Geoff Asmus. EPA hazardous waste numbers are assigned to this waste stream based on process knowledge.
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0541

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-MT0541	**Handling**	CH	**Stream Name**	miscellaneous liquids/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	L1190

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	59.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.22		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.20E+00
Pu-238	3.48E-02
Pu-239	7.43E-01
Pu-240	1.70E-01
Pu-241	4.34E+00
Pu-242	2.14E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0541

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8804 Can	0.1	0.0	0.0	0.0	0.0	0.1
Can / 1-Gallon	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	4.4	0.0	0.0	0.0	0.0	4.4

Final Form	Stored	Projected	Total
	4.4	0.0	4.4

TWBIR ID: RF-MT0541

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	These wastes are aqueous acidic liquid residues.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	All waste with D001, D002, and D003 codes will be processed or repackaged prior to shipment to WIPP per Geoff Asmus. Subpopulation A Subpopulation A includes acidic solutions generated in the Building 371 Analytical Laboratory. These solutions were sampled for pH and were determined to be corrosive (D002). Therefore, this subpopulation exhibits the characteristic of corrosivity as defined in 6 CCR 1007-3, Section 261.22. Subpopulation H These solutions were sampled for pH and were determined to be corrosive (D002). Twenty-eight bottles of newly generated solutions generated in Building 771 were sampled for metals. Nine bottles contained greater than 1.0 ppm cadmium, 20 contained greater than 5.0 ppm chromium, and nine contained greater than 5.0 ppm lead. Six bottles are below the regulatory levels for these metals. In addition, Building 771 does X-Ray Fluorescence which uses silver chloride in the analysis. Silver is presumed to be in these solutions, but it has not been determined which bottles were generated from this process and if any of the bottles sampled were from this process. This subpopulation exhibits the characteristics of corrosivity (D002) and toxicity for cadmium, chromium, and lead (D006, D007, and D008) as defined in 6 CCR 1007-3, Sections 261.22 and 261.24.
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0545

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W090	**Handling**	CH	**Stream Name**	Excess Chemicals/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S3160

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.96	0.96	0.96
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	23.87	23.87	23.87
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	17.18	17.18	17.18
Solidified, Inorganic Matrix	413.85	413.85	413.85
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.43		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	3.53E-02
Pu-239	7.51E-01
Pu-240	1.72E-01
Pu-241	4.40E+00
Pu-242	2.18E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0545

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RF-MT0545

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Solid excess chemicals contaminated with plutonium to TRU concentrations. Chemicals are expired or off-specification in some manner and are therefore not useable.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	All waste with D001, D002, and D003 codes will be processed or repackaged prior to shipment to WIPP per Geoff Asmus. EPA hazardous waste numbers are assigned to this waste stream based on process knowledge.
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0800

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W010	**Handling**	CH	**Stream Name**	Solidified Sludge - Bldg 774 / TRM			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3190

EPA Codes

As-Generated
D006, D007, D011, F001, F002

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	458.25	458.25	458.25
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	16.52	8.59	17.18
Solidified, Inorganic Matrix	815.35	591.43	998.60
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	137.26		
Packaging Material, Plastic	30.07		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Pollution Control or Waste Treatment Process

TRUCON Codes

111

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.90E+01
Pu-238	5.82E-02
Pu-239	1.24E+00
Pu-240	2.84E-01
Pu-241	7.26E+00
Pu-242	3.59E-05
U-234	7.74E-06
U-235	1.11E-06
U-238	1.35E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0800

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	60.7	0.0	0.0	0.0	0.0	60.7
Drum / 85 gallon	1.6	0.0	0.0	0.0	0.0	1.6

As-Generated	Stored	Projected	Total
	62.3	0.0	62.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	60.9	0.0	0.0	0.0	0.0	60.9
85 Gallon Drum	1.6	0.0	0.0	0.0	0.0	1.6

Final Form	Stored	Projected	Total
	62.5	0.0	62.5

TWBIR ID: RF-MT0800

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is a solid cemented sludge. It could have small amounts of free liquids in the bottom of the container.
Waste Stream Source Description	Aqueous sludge wastes assigned IDCs 001 and 800 were generated by the high-level aqueous waste treatment system in Building 774. IDC 001 was replaced by IDC 800 in 1986. A two-stage basic waste treatment, precipitation, and filtration process generates IDCs 001 and 800 aqueous sludge. Acidic wastes are neutralized with sodium hydroxide in stage one. Ferric sulfate and Purifloc flocculant are added to the neutralized waste (containing metal ions) to precipitate the sludge prior to filtration. In stage two, ferric sulfate, magnesium sulfate, calcium chloride, and Purifloc flocculant are added to basic wastes during the two-stage treatment to precipitate sludge. The sludge slurry from the acidic and basic waste treatment is drawn through a diatomite filter media on a rotating drum filter to trap the solids. The filter media and sludge are continuously scraped off the drum filter and co-fed into a 55-gallon drum with additional diatomite and Portland cement making up the solidification process. No mechanical mixing of the sludge and cement is performed. Prior to 1979, IDC 001 consisted of sludge from the first-stage treatment only. When the first- and second-stage sludges were packaged separately, two vacuum filters were used. From 1979 to 1986, IDC 001 was a combination of the sludges from the first- and second-stage treatment processes. The sludge was produced chemically in the same fashion aqueous waste was treated to produce IDC 800 sludge. The solidification process for IDC 001 differs from the IDC 800 method of adding cement and diatomite as the sludge collects. Portland cement was added to the bottom of the IDC 001 drum prior to placing the sludge in the drum. In some cases additional Portland cement was added on top of the sludge. Prior to September 1984, Building 774 accepted many aqueous process wastes from other buildings. These wastes, now piped to Building 374, were treated as described above. The accepted wastes included aqueous waste from Buildings 122, 123, 444, 559, 707, 776, 778, 779, 865, 881, 883, 889. After August 1984 and the start-up of the Building 374 Precipitation Process, only waste piped from Building 771 (stream condensate, scrubber waste, ion column effluent, and process waste sinks), waste in containers from various buildings, and wastes generated within Building 774 (silver recovery effluent, seal liquid, and floor washdown) were accepted. From 1986 through 1989, the treatment process treated from 150,000 gallons to over 500,000 gallons per year and generated 2,700 drums of IDCs and 800 sludge. See Solidified Bypass Sludge/LLM for detailed descriptions of IDCs 007, 803, and 807.
Current Container Comments	N/A
EPA Comments	All waste with D001, D002, and D003 codes will be processed or repackaged prior to shipment to WIPP per Geoff Asmus. According to the Building 774 Second-Stage Treatment Log (January 1981 to October 1989), prior to September 1984, the Building 774 aqueous waste treatment system received waste streams that are treated in the Building 374 Liquid Waste Treatment Facility. These streams affected the characterization of Building 774 solidified sludge until September 1985. The choice of the transition date of September 1984 is discussed in detail under the Subpopulation 55A discussion in the Backlog Baseline Book prepared by Rocky Flats. Information contained in the November 1992 WSRIC Valve Vaults Book has been used to characterize waste streams treated in Building 774 prior to September 1984. The Valve Vaults book describes the process waste sent to Building 374 for treatment. The book was used because it is the only reference that provides detailed characterization information on waste that was sent to Building 774. Other references and interviews have been used to enhance or add to this information as it relates to the waste form.
Management Comments	N/A
Acceptance Comments	RFP has assumed this waste to be LDR based on process knowledge characterization and limited analytical data.

TWBIR ID: RF-MT0800

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

1. Basis for determining LDR storage prohibition status is based pirmarily on process knowledge. WASTE_ PACK: Waste is packaged in 55 gallon DOT 7A Type A Drums. The drums are lined with one rigid polyethylene liner and two bag liners.

Final Form Comments N/A

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TWBIR ID: RF-MT0801

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W013	**Handling**	CH	**Stream Name**	Solidified Organics - Bldg 774/TRM			**Inventory Date**	9/30/2002
Local ID	IDC 801	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3190

EPA Codes

As-Generated
D005, D006, D007, D010, F001, F002

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	166.75	8.59	1119.84
Solidified, Inorganic Matrix	955.49	1072.58	1143.71
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	1032.33	746.88	1278.80
Soils	0.00	0.00	0.00
Packaging Material, Steel	132.02		
Packaging Material, Plastic	30.57		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

111

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.20E+00
Pu-238	3.48E-02
Pu-239	7.43E-01
Pu-240	1.70E-01
Pu-241	4.34E+00
Pu-242	2.14E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0801

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	85.9	1.0	0.0	0.0	0.0	86.9
Drum / 85 gallon	14.2	0.0	0.0	0.0	0.0	14.2

As-Generated	Stored	Projected	Total
	100.1	1.0	101.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	86.1	0.0	0.0	0.0	0.0	87.1
85 Gallon Drum	14.2	0.0	0.0	0.0	0.0	14.2

Final Form	Stored	Projected	Total
	100.3	1.0	101.3

TWBIR ID: RF-MT0801

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description

This waste stream consists of a cemented solid, with some free liquids. It can also have some small chunks in it.

Waste Stream Source Description

Solidified organics are cemented waste oils and solvents that were generated as a result of machining and tool degreasing. Waste oil was transferred primarily from Buildings 707 and 777. Cementation was performed in Waste Management Unit (WMU) 56, Room 210, Building 774. The earliest generation date for the backlog inventory is June 1984. The Organic and Sludge Immobilization System (OASIS) Process generating solidified organics stopped in January 1990. These containers are assigned IDC 0003 and 0801.

Solidified organics waste currently stored at Rocky Flats was generated by the Grease Plant Process or the OASIS Process. The Grease Plant Process operated until November 1985. The OASIS Process began operating in November 1985. The last OASIS runs occurred in 1991.

Tanks T-1 and T-2, Tank T-374A, and Tanks T-13 and T-14 have all received waste oils and solvents for treatment at various times. The waste oils and solvents were generated primarily by processes in Buildings 707 and 777. Solvent-contaminated waste oils were generated by plutonium machining and tool degreasing. Ultrasonic cleaners consisting of trichloroethane baths were used to clean parts. Buildings 707 and 777 also cleaned metal turnings and scrap in carbon tetrachloride baths before forming them into briquettes.

Laboratory wastes in bottles were poured into containers of solidified organics in the past. Laboratory waste contaminants included organophosphates and nitrobenzene. According to the generator, bottled laboratory wastes were poured into five or fewer solidified organics containers. However, there is no documentation specifying the individual drums.

The majority of wastes fed to the solidified organics generation processes consisted of plutonium-contaminated oils and solvents. A cutting oil, usually Texaco Regal "A," flowed onto a part during machining. After machining, the part was rinsed to remove residual oil. Various solvents were used to rinse machined parts and degrease tools. These included trichloroethylene and tetrachloroethylene. According to the generator, trichloroethylene and tetrachloroethylene use stopped in 1973.

Spent carbon tetrachloride and trichloroethane from cleaning baths were also fed to the solidified organics generation processes. Parts for assembly from Buildings 707 and 777 were cleaned in ultrasonic wash tanks before welding. The tanks contained 15 gallons of trichloroethane. In another cleaning process, metal turnings and scraps were placed into perforated metal baskets and dipped into a series of tanks containing carbon tetrachloride. Each of the steel tanks held 4 gallons of solvent. The cleaned metal was then formed into briquettes. Carbon tetrachloride and trichloroethane baths were replaced periodically.

Waste oil and solvents were drained and pumped into storage tanks. The wastes were then filtered to recover the actinides. After filtering, the plutonium and uranium concentrations in the waste were measured. If the concentrations were above specified transfer limits, the waste was refiltered in the Ful-Flo filtration system. When the concentrations of plutonium and uranium were below transfer limits, the waste was transferred to the solidified organics generation processes in Building 774.

Tanks T-1 and T-2, Tank T-374A, and Tanks T-13 and T-14 received waste oils from the same processes in Buildings 707 and 777. Tanks T-1 and T-2 fed waste oils to the Grease Plant Process and the OASIS Process. Tank T-374A began feeding waste oils to the OASIS Process after damage to Tanks T-1 and T-2 was identified and they were removed from operation. Tanks T-13 and T-14 began feeding waste oils after Tank T-374A. Tanks T-374A, T-13, and T-14 were used simultaneously until Tank T-374A was removed from operation. Tanks T-13 and T-14 continued feeding the OASIS Process until it stopped in January 1990.

In the Grease Plant Process, waste oil and Microcel E (calcium silicate) were fed separately into a continuous mixer. Small amounts of Oil Dri were sometimes added to the mixture as well. The amounts of materials added to the mixture were not metered. However, the operator would adjust the composition if the outgoing mixture did not have a paste-like consistency. The mixture would then drop into an O-ring bag contained in a 55-gallon drum. Drums of solidified organics from the Grease Plant Process were subsequently transported to the Size Reduction Facility in Building 776 for inspection and sealing.

OASIS was a batch-type process generating one drum per run. Waste oils were pumped into an O-ring bag contained in a 55-gallon drum attached to the

bottom of the OASIS glovebox. Envirostone emulsifier, gypsum cement, and accelerator were also metered into the bag. House water, which had not been used in any other processes, was added to the mixture as well. A Lightning Mixer was lowered into the drum after all of the materials were added. The amount of materials added to the mixture was operator controlled.

The drums were transferred to WMU 73, Room 241, after they had been inspected and sealed. Solidified organics containers from the OASIS process were stored in Building 774 until they were transferred to Building 371 for nondestructive assay (NDA). After RTR, drums were usually sent to Building 664, where they were stored until shipment off site. Solidified organics waste is not being shipped at this time. Consequently, Building 664 has reached capacity and solidified organics are also being stored in Buildings 371, 569, 774, and 776.

Current Container Comments N/A

EPA Comments Solidified organics were generated by the OASIS process after November 11, 1985.

Analytical information regarding solidified organics was not found in the WSRIC Sampling and Analysis database. However, non-WSRIC analytical data from 1988 and 1989 are considered in the characterization of the waste. The analytical method was not specified for the results. However, Toxicity Characteristic Leaching Procedure (TCLP) analysis was not typically performed in 1988 and 1989. The results are assumed to be from Totals analysis. Validated headpsace analysis performed on drums containing solidified organics are considered as well. Headspace analytical results support the 1988 and 1989 results from sampling and analysis.

Wastes received by Tanks T-1 and T-2, T-374A, and T-13 and T-14 were intermittently contaminated with Resource Conservation and Recovery Act (RCRA) organics. Carbon tetrachloride (D019), nitrobenzene (D036), and trichloroethylene (D040) were cited contaminants. Nitrobenzene was a contaminant in nonroutine laboratory waste and was introduced into five or fewer drums. Contaminated drums could be not be identified. However, the solidified organics population, as a whole, does not exhibit the toxicity characteristic for nitrobenzene.

Sampling and analysis of three solidified organics samples in 1988 and 1989 indicated the waste exceeded toxicity characteristic criteria for carbon tetrachloride (EPA Code D019). The waste did not exceed toxicity characteristic criteria for any of the other cited RCRA organics. TCLP analysis of the waste under EPA SW-846 is required to support the analytical results and confirm the assumptions.

Based on the "mixture" rule and the "derived-from" rule, solidified organics would carry the listed EPA codes associated with the wastes fed to the solidified organics generation processes. EPA Codes F001 and F002 are assigned to all solidified organics because wastes received by Tanks T-1 and T-2, T-374A, and T-13 and T-14 were contaminated with regulated spent solvents in the past.

Sampling and analysis of solidified organics waste in 1988 and 1989 indicated the waste exceeded the F001 and F002 LDR treatment standards for carbon tetrachloride and 1,1,1-trichloroethane. The analyses found detectable concentrations of other F001 and F002 constituents, as well. Total analysis of the waste under EPA SW-846 is required to confirm these results.

P- and U-listed EPA codes for discarded commercial chemical products will not be assigned to solidified organics. Excess chemicals are stored on the plant site. However, there is no documentation supporting P- and U-listed waste codes for specific chemicals that were disposed of in process waste. Cited laboratory chemicals like nitrobenzene were used for their intended purpose as reagents and were not discarded commercial chemical products.

Management Comments N/A

Acceptance Comments RFP has assumed this waste to be LDR based on process knowledge characterization, and one sample analyzed for volatiles in 1988.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. The waste is stored in 55-gallon carbon steel drums with a rigid polyethylene liner and one or two bag liners.

TWBIR ID: RF-MT0801

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Comments N/A

TWBIR ID: RF-MT0803

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W010	**Handling**	CH	**Stream Name**	Solidified Sludge - Bldg 374 / TRM			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3190

EPA Codes

As-Generated
F001, F002, F005, F006, F007, F009

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	801.46	801.46	801.46
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	17.18	17.18	17.18
Solidified, Inorganic Matrix	828.31	579.97	991.91
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.52		
Packaging Material, Plastic	36.17		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Pollution Control or Waste Treatment Process

TRUCON Codes

111

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.20E+00
Pu-238	3.48E-02
Pu-239	7.43E-01
Pu-240	1.70E-01
Pu-241	4.34E+00
Pu-242	2.14E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0803

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	2.3	0.0	0.0	0.0	0.0	2.3

As-Generated	Stored	Projected	Total
	2.3	0.0	2.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.3	0.0	0.0	0.0	0.0	2.3

Final Form	Stored	Projected	Total
	2.3	0.0	2.3

TWBIR ID: RF-MT0803

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is a solid cemented sludge. It could have small amounts of free liquids in the bottom of the container.
Waste Stream Source Description	Aqueous sludge wastes assigned IDCs 001 and 800 were generated by the high-level aqueous waste treatment system in Building 774. IDC 001 was replaced by IDC 800 in 1986. A two-stage basic waste treatment, precipitation, and filtration process generates IDCs 001 and 800 aqueous sludge. Acidic wastes are neutralized with sodium hydroxide in stage one. Ferric sulfate and Purifloc flocculant are added to the neutralized waste (containing metal ions) to precipitate the sludge prior to filtration. In stage two, ferric sulfate, magnesium sulfate, calcium chloride, and Purifloc flocculant are added to basic wastes during the two-stage treatment to precipitate sludge. The sludge slurry from the acidic and basic waste treatment is drawn through a diatomite filter media on a rotating drum filter to trap the solids. The filter media and sludge are continuously scraped off the drum filter and co-fed into a 55-gallon drum with additional diatomite and Portland cement making up the solidification process. No mechanical mixing of the sludge and cement is performed. Prior to 1979, IDC 001 consisted of sludge from the first-stage treatment only. When the first- and second-stage sludges were packaged separately, two vacuum filters were used. From 1979 to 1986, IDC 001 was a combination of the sludges from the first- and second-stage treatment processes. The sludge was produced chemically in the same fashion aqueous waste was treated to produce IDC 800 sludge. The solidification process for IDC 001 differs from the IDC 800 method of adding cement and diatomite as the sludge collects. Portland cement was added to the bottom of the IDC 001 drum prior to placing the sludge in the drum. In some cases additional Portland cement was added on top of the sludge. Prior to September 1984, Building 774 accepted many aqueous process wastes from other buildings. These wastes, now piped to Building 374, were treated as described above. The accepted wastes included aqueous waste from Buildings 122, 123, 444, 559, 707, 776, 778, 779, 865, 881, 883, 889. After August 1984 and the start-up of the Building 374 Precipitation Process, only waste piped from Building 771 (stream condensate, scrubber waste, ion column effluent, and process waste sinks), waste in containers from various buildings, and wastes generated within Building 774 (silver recovery effluent, seal liquid, and floor washdown) were accepted. From 1986 through 1989, the treatment process treated from 150,000 gallons to over 500,000 gallons per year and generated 2,700 drums of IDCs and 800 sludge. See Solidified Bypass Sludge/LLM for detailed descriptions of IDCs 007, 803, and 807.
Current Container Comments	N/A
EPA Comments	All waste with D001, D002, and D003 codes will be processed or repackaged prior to shipment to WIPP per Geoff Asmus. According to the Building 774 Second-Stage Treatment Log (January 1981 to October 1989), prior to September 1984, the Building 774 aqueous waste treatment system received waste streams that are treated in the Building 374 Liquid Waste Treatment Facility. These streams affected the characterization of Building 774 solidified sludge until September 1985. The choice of the transition date of September 1984 is discussed in detail under the Subpopulation 55A discussion in the Backlog Baseline Book prepared by Rocky Flats. Information contained in the November 1992 WSRIC Valve Vaults Book has been used to characterize waste streams treated in Building 774 prior to September 1984. The Valve Vaults book describes the process waste sent to Building 374 for treatment. The book was used because it is the only reference that provides detailed characterization information on waste that was sent to Building 774. Other references and interviews have been used to enhance or add to this information as it relates to the waste form.
Management Comments	N/A
Acceptance Comments	RFP has assumed this waste to be LDR based on process knowledge characterization and limited analytical data.

TWBIR ID: RF-MT0803

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

	1. Basis for determining LDR storage prohibition status is based pirmarily on process knowledge. WASTE_ PACK: Waste is packaged in 55 gallon DOT 7A Type A Drums. The drums are lined with one rigid polyethylene liner and two bag liners.
Final Form Comments	N/A

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TWBIR ID: RF-MT0806

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W097	**Handling**	CH	**Stream Name**	Solidified Process Solids/TRM	**Inventory Date**	9/30/2002
Local ID	IDC 806	**Waste Type**	MTRU	**Generator Site**	RF, RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
D004, D008

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	235.33	235.33	235.33
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	33.41	33.41	33.41
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.57		
Packaging Material, Plastic	41.05		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Pollution Control or Waste Treatment Process

TRUCON Codes

114

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.26E+00
Pu-238	9.16E-01
Pu-239	3.54E+01
Pu-240	8.04E+00
Pu-241	8.07E+01
Pu-242	4.91E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0806

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Can / 1-Liter	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated	Stored	Projected	Total
	0.0	0.0	0.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: RF-MT0806

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream represents the solidified final form of all particulate and sludge type materials. Particulates and sludge type materials are immobilized with Portland cement. The cemented wastes are cast into 1-gallon molds and allowed to cure prior to packaging. This is the final waste form for Firebrick, Pulverized or Fines/TRM (RF-W036), Incinerator Ash/TRM (RF-W040), Particulate Sludge/TRM (RF-W068), and Sand, Slag, and Crucible/TRM (RF-W059). IDC 806 - All inorganic particulate and inorganic sludge waste must be immobilized by processing into a solid and identified as IDC 806.
Waste Stream Source Description	This is a new waste stream and includes IDC 806 only. It represents the solidified final form of Firebrick, Pulverized or Fines/TRM (RF-W036), Incinerator Ash/TRM (RF-W040), Particulate Sludge/TRM (RF-W068), and Sand, Slag, and Crucible/TRM (RF-W059). Particulates and sludge type materials are immobilized with Portland Cement. The cemented wastes are cast into 1-gallon molds and allowed to cure prior to packaging. There is currently no inventory of this waste at Rocky Flats. However, generation of this waste is expected as the plant progresses in its mission of environmental cleanup and waste management. Therefore, some IDC 806 material is expected to be generated in the 20-year horizon as waste management and disposal activities continue. For these reasons, this waste must be reported in the Baseline Inventory Report; it is included here to maintain consistency between this report and the BIR.
Current Container Comments	N/A
EPA Comments	All waste with D001, D002, and D003 codes will be processed or repackaged prior to shipment to WIPP per Geoff Asmus. The characterization basis for this waste is to apply EPA hazardous waste numbers from the four feed materials identified above that would be expected to apply to the final solidified waste form as well. These are projected hazardous waste numbers and may not apply after the waste is generated and analytical work completed. Projected list of contaminants based on those present in source wastes.
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0807

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W010	**Handling**	CH	**Stream Name**	Solidified Sludge - Bldg 374 / TRM	**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3190

EPA Codes

As-Generated
F001, F002, F005, F006, F007, F009

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	801.46	801.46	801.46
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	17.18	17.18	17.18
Solidified, Inorganic Matrix	828.31	579.97	991.91
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	137.28		
Packaging Material, Plastic	35.92		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Pollution Control or Waste Treatment Process

TRUCON Codes

111

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.45E-01
Pu-238	1.75E-02
Pu-239	3.73E-01
Pu-240	8.55E-02
Pu-241	2.19E+00
Pu-242	1.08E-05
U-235	2.38E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0807

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	81.7	0.0	0.0	0.0	0.0	81.7
Drum / 85 gallon	2.3	0.0	0.0	0.0	0.0	2.3

As-Generated	Stored	Projected	Total
	84.0	0.0	84.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	81.9	0.0	0.0	0.0	0.0	81.9
85 Gallon Drum	2.3	0.0	0.0	0.0	0.0	2.3

Final Form	Stored	Projected	Total
	84.2	0.0	84.2

TWBIR ID: RF-MT0807

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is a solid cemented sludge. It could have small amounts of free liquids in the bottom of the container.
Waste Stream Source Description	Aqueous sludge wastes assigned IDCs 001 and 800 were generated by the high-level aqueous waste treatment system in Building 774. IDC 001 was replaced by IDC 800 in 1986. A two-stage basic waste treatment, precipitation, and filtration process generates IDCs 001 and 800 aqueous sludge. Acidic wastes are neutralized with sodium hydroxide in stage one. Ferric sulfate and Purifloc flocculant are added to the neutralized waste (containing metal ions) to precipitate the sludge prior to filtration. In stage two, ferric sulfate, magnesium sulfate, calcium chloride, and Purifloc flocculant are added to basic wastes during the two-stage treatment to precipitate sludge. The sludge slurry from the acidic and basic waste treatment is drawn through a diatomite filter media on a rotating drum filter to trap the solids. The filter media and sludge are continuously scraped off the drum filter and co-fed into a 55-gallon drum with additional diatomite and Portland cement making up the solidification process. No mechanical mixing of the sludge and cement is performed. Prior to 1979, IDC 001 consisted of sludge from the first-stage treatment only. When the first- and second-stage sludges were packaged separately, two vacuum filters were used. From 1979 to 1986, IDC 001 was a combination of the sludges from the first- and second-stage treatment processes. The sludge was produced chemically in the same fashion aqueous waste was treated to produce IDC 800 sludge. The solidification process for IDC 001 differs from the IDC 800 method of adding cement and diatomite as the sludge collects. Portland cement was added to the bottom of the IDC 001 drum prior to placing the sludge in the drum. In some cases additional Portland cement was added on top of the sludge. Prior to September 1984, Building 774 accepted many aqueous process wastes from other buildings. These wastes, now piped to Building 374, were treated as described above. The accepted wastes included aqueous waste from Buildings 122, 123, 444, 559, 707, 776, 778, 779, 865, 881, 883, 889. After August 1984 and the start-up of the Building 374 Precipitation Process, only waste piped from Building 771 (stream condensate, scrubber waste, ion column effluent, and process waste sinks), waste in containers from various buildings, and wastes generated within Building 774 (silver recovery effluent, seal liquid, and floor washdown) were accepted. From 1986 through 1989, the treatment process treated from 150,000 gallons to over 500,000 gallons per year and generated 2,700 drums of IDCs and 800 sludge. See Solidified Bypass Sludge/LLM for detailed descriptions of IDCs 007, 803, and 807.
Current Container Comments	N/A
EPA Comments	All waste with D001, D002, and D003 codes will be processed or repackaged prior to shipment to WIPP per Geoff Asmus. According to the Building 774 Second-Stage Treatment Log (January 1981 to October 1989), prior to September 1984, the Building 774 aqueous waste treatment system received waste streams that are treated in the Building 374 Liquid Waste Treatment Facility. These streams affected the characterization of Building 774 solidified sludge until September 1985. The choice of the transition date of September 1984 is discussed in detail under the Subpopulation 55A discussion in the Backlog Baseline Book prepared by Rocky Flats. Information contained in the November 1992 WSRIC Valve Vaults Book has been used to characterize waste streams treated in Building 774 prior to September 1984. The Valve Vaults book describes the process waste sent to Building 374 for treatment. The book was used because it is the only reference that provides detailed characterization information on waste that was sent to Building 774. Other references and interviews have been used to enhance or add to this information as it relates to the waste form.
Management Comments	N/A
Acceptance Comments	RFP has assumed this waste to be LDR based on process knowledge characterization and limited analytical data.

TWBIR ID: RF-MT0807

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

1. Basis for determining LDR storage prohibition status is based pirmarily on process knowledge. WASTE_ PACK: Waste is packaged in 55 gallon DOT 7A Type A Drums. The drums are lined with one rigid polyethylene liner and two bag liners.

Final Form Comments N/A

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TWBIR ID: RF-MT0816

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W013	**Handling**	CH	**Stream Name**	Solidified Organics/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3290

EPA Codes

As-Generated
D006, D007, D008, D010, D022, D029, F001, F002, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	426.74	426.74	426.74
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.57		
Packaging Material, Plastic	32.46		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

112

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.59E+00
Pu-238	4.99E-01
Pu-239	1.06E+01
Pu-240	2.43E+00
Pu-241	6.22E+01
Pu-242	3.08E-04
U-235	3.35E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0816

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	Projected	Total
	0.4	0.0	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	Projected	Total
	0.4	0.0	0.4

TWBIR ID: RF-MT0816

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Polymerized organics - small containers consists of small quantities of organic liquids solidified with polymer such as Nochar Petrobond.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	EPA hazardous waste numbers are assigned to this waste stream based on process knowledge.
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT-0823

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W068	**Handling**	CH	**Stream Name**	Particulate Sludge/TRM			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	MTRU	**Generator Site**	ZZ	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3900

EPA Codes

As-Generated
D006, D007, D008, F001, F002, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	36.82	8.59	150.41
Aluminum-Base Metal/Alloys	6.86	0.91	10.41
Other Metal/Alloys	12.60	2.58	21.24
Other Inorganic Materials	21.10	8.50	44.39
Cellulosics	0.00	0.00	0.00
Rubber	1.53	1.53	1.53
Plastics	30.65	19.52	55.37
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	18.40	0.96	40.24
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.56		
Packaging Material, Plastic	32.46		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

114

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.75E+00
Np-237	1.82E-05
Pu-238	4.54E-01
Pu-239	9.69E+00
Pu-240	2.22E+00
Pu-241	5.64E+01
Pu-242	2.80E-04
U-234	2.37E-05
U-235	3.25E-05
U-238	3.78E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT-0823

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RF-MT-0823

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consists of sludge type material. It is a semi-fluid material. Some of it has had cement added to it to try to solidify it.
Waste Stream Source Description	Item Description Code 292-Incinerator Sludge IDC 292 was intended for incinerator sludge from the recovery incinerator in Building 771. IDC 292 materials were reassessed under Waste Form 1, Incinerator Ash. However, there is one box WEMS incorrectly assigned this IDC. According to the waste-box log sheet dated October 14, 1987, the box contains Electrochemical Milling Sludge generated in Building 881. This operation generated sludge from the milling of various metals including stainless steel. It was indicated that no cyanides were used in the ECM operations in Building 881. The IDC for this box should be changed to 299. Item Description Code 299-Miscellaneous Sludge This IDC has been used for sludges that were not accurately categorized as IDC 290 or 340 and could have been generated in any plutonium processing building. However, the backlog miscellaneous sludge was generated in Building 771 during the processing of residues, in Building 371 in the analytical laboratory, and in Building 883 by the Rolling Process. Process pipe sludge, sludge dissolution heel, and filter plenum sludge from Building 771 were processed through nitric acid dissolution and sparging. Soil and sludge samples from around the site were analyzed in Building 371, and the waste was stored for processing. IDC 299 materials generated in Building 883 include quench sludge and uranium oxide sludge from the Rolling Process. This group also includes one container of electrochemical milling sludge generated in Building 881 in October 1987. The container is assigned IDC 292. Item Description Code 372-Grit This IDC was generated by grit blasting operations in Building 371 (primarily for cleaning steel and iron) and Building 777 in the Machining and Coating processes (primarily cleaning shields). A variety of materials were used for the grit, including iron shot, walnut shells, glass beads, and ceramic beads. The majority of the grit is thought to be iron shot ranging in size from fines to irregular particles. There were apparently no other RCRA-regulated metals involved in the grit blasting. There is one drum of IDC 372 shown in WEMS as being generated in Building 371. However, no grit blasting operation could be identified in that building. Item Description Code 823-Cemented Sludge IDC 823, cemented miscellaneous sludge, was generated when sludge designated as inorganic particulate and sludgy material that was below the economic discard limit (EDL) was placed in 1-gallon paint cans and covered with Portland cement or mixed with cement into a block. The first scenario was conducted in Building 771 and the second in Building 371. This could have included IDCs 290-299 and was done to meet the Waste Isolation Pilot Plant (WIPP) waste acceptance criteria. The material came primarily from Nash pumps in Building 771 and included vacuum grease and oily sludge. One drum of the material was apparently generated when the pit in front of Building 707 was cleaned out. However, the contents of the pit sludge could not be ascertained. One drum was generated in the Size Reduction Vault in Building 776. Six drums were generated in Building 774 and are stored in Building 371. Drum-specific information was requested but was not received. The drums from Building 559 are incorrectly assigned IDC 823 in WEMS. The drums are stored in Building 771 and are labeled with IDC 863. It appears that IDC 823 was entered incorrectly in WEMS. Therefore, these drums should be changed to IDC 863 in WEMS. This waste form is generated from Facility/Equipment Operation, Maintenance, Analytical Laboratories, R&D Laboratories, D&D, and limited Emergency Response actions.
Current Container Comments	N/A
EPA Comments	Subpopulation 46MX includes IDC 823, cemented miscellaneous sludge, generated in Building 371. The waste in this subpopulation was originally characterized as hazardous miscellaneous sludge (IDC 299). Building 371 Residue Project personnel visually inspected the material and determined the waste to be cemented sludge. Since the primary function of Building 371 was plutonium recovery, it is assumed the processes that generated this cemented sludge

TWBIR ID: RF-MT-0823

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

	were similar to the plutonium recovery processes in Building 771 (see Subpopulation 46GB). Therefore, EPA Hazardous Waste Numbers D006, D007, D008, F001, F002, and F005 are also applied to this waste.
Management Comments	N/A
Acceptance Comments	1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: The waste is packaged in 55-gallon drums with multiple bag liners. These are typically smaller containers within the drums.
Final Form Comments	N/A

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TWBIR ID: RF-MT0827

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W013	**Handling**	CH	**Stream Name**	Solidified Organics/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3290

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D022, D027, D028, D029, D034, D041, D043, F001, F002, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	426.74	426.74	426.74
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.57		
Packaging Material, Plastic	32.46		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

112

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.59E+00
Pu-238	4.99E-01
Pu-239	1.06E+01
Pu-240	2.43E+00
Pu-241	6.22E+01
Pu-242	3.08E-04
U-235	3.35E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0827

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	8.3	1.0	0.0	0.0	0.0	9.4

As-Generated	Stored	8.3	Projected	1.0	Total	9.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	8.3	0.0	0.0	0.0	0.0	9.4

Final Form	Stored	8.3	Projected	1.0	Total	9.4

TWBIR ID: RF-MT0827

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Polymerized organics - drum consists of 55-gallon drum quantities of organic liquids solidified with polymer such as Nochar Petrobond.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	EPA hazardous waste numbers are assigned to this waste stream based on process knowledge.
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0831

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W012	**Handling**	CH	**Stream Name**	Combustibles/TRM	**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D022, D028, D029, D035, D038, D040, D043, F001, F002, F005, F006, F007, F009, P030, P098, P099, P106, U003, U103, U108

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	3.12	0.48	34.37
Aluminum-Base Metal/Alloys	1.86	2.39	2.39
Other Metal/Alloys	7.69	0.96	23.87
Other Inorganic Materials	5.47	0.86	9.60
Cellulosics	10.99	4.31	12.89
Rubber	8.58	0.48	46.11
Plastics	24.88	1.91	192.85
Solidified, Inorganic Matrix	11.90	6.68	23.87
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	3.57	4.58	4.58
Soils	0.00	0.00	0.00
Packaging Material, Steel	141.61		
Packaging Material, Plastic	24.51		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

116

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.94E-01
Np-237	5.76E-06
Pu-238	2.40E-01
Pu-239	5.06E+00
Pu-240	1.16E+00
Pu-241	2.89E+01
Pu-242	1.43E-04
U-234	2.04E-04
U-235	6.58E-06
U-238	1.50E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0831

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / Metal	3.2	0.0	0.0	0.0	0.0	3.2
Drum / 55 gallon	46.6	0.0	0.0	0.0	0.0	46.6
Standard Waste Box	11.4	0.0	0.0	0.0	0.0	11.4

As-Generated	Stored	61.2	Projected	0.0	Total	61.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	46.7	0.0	0.0	0.0	0.0	46.7
Standard Waste Box	13.2	0.0	0.0	0.0	0.0	13.2

Final Form	Stored	59.9	Projected	0.0	Total	59.9

TWBIR ID: RF-MT0831

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consits of rags, paper, cloth, coveralls, plastic, rubber, and wood. The waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills. The bulk of these wastes are packaged in 55-gallon drums with one rigid polyethylene liner and several bag liners. In addition, the waste may be packaged in DOT 7A Type A metal boxes which are lined with a fiberboard liner and a PVC liner or standard TRUPACT-II container. The containers are then assayed and transferred to interim status storage areas. These wastes have been shipped to the INEL for stroage in the past. RF-330, 356, 337, 821, 822, 853, 831, 832, 833. Predominantly combustible debris.
Waste Stream Source Description	Combustible wastes were produced by materials-handling and cleanup from production, research and development, laboratory, utility, custodial and maintenance activities. The combustible wastes form includes wipes, gloves, paper and plastics. Item Description 330, Combustibles, Dry IDC 330 is Dry Combustibles. This IDC is dry combustibles such as cloth, paper, and wood. This IDC changes to 821, 831, 851, or 861 at the point of assay, depending on radiological content. Containers of IDC 330 currently in inventory were generated in all buildings handling fissile material. Item Description 336, Combustibles, Wet Wet combustibles are paper, cloth, etc., which contain a discernible amount of moisture and must be drained or wrung out prior to packaging to prevent an accumulation of free liquid. This IDC changes to 822, 832, 852, or 862 at the point of assay. Item Description 337, Plastic (Teflon, PVC, Polyethylene) IDC 337 represents PVC sheeting, poly bottles, supplied-air suits, polyethylene, and other plastics. IDC 337 changes to 825, 833, 853, or 863 at the point of assay. Item Description 821, Combustibles, Dry TRU Waste Dry transuranic combustible wastes, such as paper, cloth, and wood are classified as IDC 821. Item Description 822, Combustibles, Wet TRU Waste Wet combustible transuranic wastes, such as paper, cloth, and wood, which contain a discernible amount of moisture must be drained or wrung out prior to packaging to prevent accumulation of free liquid. These wastes are classified as IDC 822. Item Description 831, Combustibles, Dry, TRU Mixed Waste Dry combustibles such as paper, cloth, wood, etc. This waste has been identified as being low level mixed waste. Item Description 832, Combustibles, Wet, TRU Mixed Waste Wet combustibles such as paper, cloth, and wood which contain a discernible amount of moisture. These combustibles must be drained or wrung prior to packaging to prevent accumulation of free liquid. Item Description 833, Plastic TRU Mixed Waste PVC sheeting, poly bottles, supplied air suits, and other plastics. This waste has been identified as being a low level mixed waste. Item Description 853, Plastic (Teflon, PVC, and Polyethylene)

TWBIR ID: RF-MT0831

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

This waste has been identified as being a low level mixed waste, consisting of PVC sheeting, poly bottles, supplied-air suits, and other plastics.

Current Container Comments N/A

EPA Comments A- Process knowledge based upon general knowledge of waste type or source (e.g., there is some probability of a waste constituent being absent or present).

Bounding analytical data have not been compiled in a form that is compatible with this report. This effort has been completed and the results are available in the Final Backlog Baseline Book dated September 26, 1994.

Management Comments N/A

Acceptance Comments GENERAAREA: Numerous locations throughout RFP.GENOPERATI: RECLASS_CO: Rocky Flats assays wastes to determine waste type instead of relying on process knowledge or historical data. For this reason, the potential for reclassification has not been analyzed.CATION: Not applicable OTHER_CHAR: No information available.

RFP has assumed this waste to be LDR based on process knowledge characterization, and one sample analyzed for volatiles in 1988.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. Analytical data are limited. WASTE_PACK: This waste is stored in 55 gallon carbon steel drums with one rigid polyethylene liner and several bag liners and standard metal boxes.

Final Form Comments N/A

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TWBIR ID: RF-MT0832

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W012	**Handling**	CH	**Stream Name**	Combustibles/TRM			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D022, D028, D029, D035, D038, D040, D043, F001, F002, F005, F006, F007, F009, P030, P098, P099, P106, U003, U103, U108

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	2.40	0.48	23.87
Aluminum-Base Metal/Alloys	2.14	0.86	2.82
Other Metal/Alloys	4.75	0.48	10.50
Other Inorganic Materials	78.92	0.48	301.01
Cellulosics	12.85	10.98	12.89
Rubber	71.68	0.24	826.75
Plastics	23.43	1.43	186.16
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	253.04	253.04	253.04
Soils	0.00	0.00	0.00
Packaging Material, Steel	141.08		
Packaging Material, Plastic	25.13		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

116

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.83E+00
Np-237	1.18E-05
Pu-238	2.69E-01
Pu-239	6.07E+00
Pu-240	1.38E+00
Pu-241	3.17E+01
Pu-242	1.69E-04
U-234	1.72E-04
U-235	5.59E-06
U-238	5.48E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0832

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	95.9	17.9	0.0	0.0	0.0	113.8
Drum / 85 gallon	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	Projected	Total
	96.5	17.9	114.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	96.1	0.0	0.0	0.0	0.0	114.0
85 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Standard Waste Box	0.0	0.0	0.0	0.0	0.0	28.4

Final Form	Stored	Projected	Total
	96.7	46.3	143.0

TWBIR ID: RF-MT0832

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consits of rags, paper, cloth, coveralls, plastic, rubber, and wood. The waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills. The bulk of these wastes are packaged in 55-gallon drums with one rigid polyethylene liner and several bag liners. In addition, the waste may be packaged in DOT 7A Type A metal boxes which are lined with a fiberboard liner and a PVC liner or standard TRUPACT-II container. The containers are then assayed and transferred to interim status storage areas. These wastes have been shipped to the INEL for stroage in the past. RF-330, 356, 337, 821, 822, 853, 831, 832, 833. Predominantly combustible debris.
Waste Stream Source Description	Combustible wastes were produced by materials-handling and cleanup from production, research and development, laboratory, utility, custodial and maintenance activities. The combustible wastes form includes wipes, gloves, paper and plastics. Item Description 330, Combustibles, Dry IDC 330 is Dry Combustibles. This IDC is dry combustibles such as cloth, paper, and wood. This IDC changes to 821, 831, 851, or 861 at the point of assay, depending on radiological content. Containers of IDC 330 currently in inventory were generated in all buildings handling fissile material. Item Description 336, Combustibles, Wet Wet combustibles are paper, cloth, etc., which contain a discernible amount of moisture and must be drained or wrung out prior to packaging to prevent an accumulation of free liquid. This IDC changes to 822, 832, 852, or 862 at the point of assay. Item Description 337, Plastic (Teflon, PVC, Polyethylene) IDC 337 represents PVC sheeting, poly bottles, supplied-air suits, polyethylene, and other plastics. IDC 337 changes to 825, 833, 853, or 863 at the point of assay. Item Description 821, Combustibles, Dry TRU Waste Dry transuranic combustible wastes, such as paper, cloth, and wood are classified as IDC 821. Item Description 822, Combustibles, Wet TRU Waste Wet combustible transuranic wastes, such as paper, cloth, and wood, which contain a discernible amount of moisture must be drained or wrung out prior to packaging to prevent accumulation of free liquid. These wastes are classified as IDC 822. Item Description 831, Combustibles, Dry, TRU Mixed Waste Dry combustibles such as paper, cloth, wood, etc. This waste has been identified as being low level mixed waste. Item Description 832, Combustibles, Wet, TRU Mixed Waste Wet combustibles such as paper, cloth, and wood which contain a discernible amount of moisture. These combustibles must be drained or wrung prior to packaging to prevent accumulation of free liquid. Item Description 833, Plastic TRU Mixed Waste PVC sheeting, poly bottles, supplied air suits, and other plastics. This waste has been identified as being a low level mixed waste. Item Description 853, Plastic (Teflon, PVC, and Polyethylene)

TWBIR ID: RF-MT0832

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

This waste has been identified as being a low level mixed waste, consisting of PVC sheeting, poly bottles, supplied-air suits, and other plastics.

Current Container Comments N/A

EPA Comments A- Process knowledge based upon general knowledge of waste type or source (e.g., there is some probability of a waste constituent being absent or present).

Bounding analytical data have not been compiled in a form that is compatible with this report. This effort has been completed and the results are available in the Final Backlog Baseline Book dated September 26, 1994.

Management Comments N/A

Acceptance Comments GENERAAREA: Numerous locations throughout RFP.GENOPERATI: RECLASS_CO: Rocky Flats assays wastes to determine waste type instead of relying on process knowledge or historical data. For this reason, the potential for reclassification has not been analyzed.CATION: Not applicable OTHER_CHAR: No information available.

RFP has assumed this waste to be LDR based on process knowledge characterization, and one sample analyzed for volatiles in 1988.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. Analytical data are limited. WASTE_PACK: This waste is stored in 55 gallon carbon steel drums with one rigid polyethylene liner and several bag liners and standard metal boxes.

Final Form Comments N/A

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TWBIR ID: RF-MT0833

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W012	**Handling**	CH	**Stream Name**	Combustibles/TRM			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D022, D028, D029, D035, D038, D040, D043, F001, F002, F005, F006, F007, F009, P030, P098, P099, P106, U003, U103, U108

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	2.75	0.33	33.41
Aluminum-Base Metal/Alloys	2.28	2.39	2.39
Other Metal/Alloys	6.90	0.43	23.87
Other Inorganic Materials	7.20	0.48	47.73
Cellulosics	12.50	4.31	12.89
Rubber	5.01	1.91	14.32
Plastics	111.52	1.43	320.77
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	3.65	3.82	3.82
Soils	0.00	0.00	0.00
Packaging Material, Steel	139.14		
Packaging Material, Plastic	28.97		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

116

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.02E-01
Np-237	5.98E-06
Pu-238	1.29E-01
Pu-239	2.82E+00
Pu-240	6.47E-01
Pu-241	1.54E+01
Pu-242	8.41E-05
U-234	7.60E-05
U-235	2.48E-06
U-238	3.47E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0833

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
1/2 Wood Box	1.6	0.0	0.0	0.0	0.0	1.6
Drum / 55 gallon	45.3	33.9	0.0	0.0	0.0	79.2
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated	Stored	48.8	Projected	33.9	Total	82.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	45.4	0.0	0.0	0.0	0.0	79.4
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8

Final Form	Stored	49.2	Projected	34.0	Total	83.2

TWBIR ID: RF-MT0833

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consits of rags, paper, cloth, coveralls, plastic, rubber, and wood. The waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills. The bulk of these wastes are packaged in 55-gallon drums with one rigid polyethylene liner and several bag liners. In addition, the waste may be packaged in DOT 7A Type A metal boxes which are lined with a fiberboard liner and a PVC liner or standard TRUPACT-II container. The containers are then assayed and transferred to interim status storage areas. These wastes have been shipped to the INEL for stroage in the past. RF-330, 356, 337, 821, 822, 853, 831, 832, 833. Predominantly combustible debris.
Waste Stream Source Description	Combustible wastes were produced by materials-handling and cleanup from production, research and development, laboratory, utility, custodial and maintenance activities. The combustible wastes form includes wipes, gloves, paper and plastics. Item Description 330, Combustibles, Dry IDC 330 is Dry Combustibles. This IDC is dry combustibles such as cloth, paper, and wood. This IDC changes to 821, 831, 851, or 861 at the point of assay, depending on radiological content. Containers of IDC 330 currently in inventory were generated in all buildings handling fissile material. Item Description 336, Combustibles, Wet Wet combustibles are paper, cloth, etc., which contain a discernible amount of moisture and must be drained or wrung out prior to packaging to prevent an accumulation of free liquid. This IDC changes to 822, 832, 852, or 862 at the point of assay. Item Description 337, Plastic (Teflon, PVC, Polyethylene) IDC 337 represents PVC sheeting, poly bottles, supplied-air suits, polyethylene, and other plastics. IDC 337 changes to 825, 833, 853, or 863 at the point of assay. Item Description 821, Combustibles, Dry TRU Waste Dry transuranic combustible wastes, such as paper, cloth, and wood are classified as IDC 821. Item Description 822, Combustibles, Wet TRU Waste Wet combustible transuranic wastes, such as paper, cloth, and wood, which contain a discernible amount of moisture must be drained or wrung out prior to packaging to prevent accumulation of free liquid. These wastes are classified as IDC 822. Item Description 831, Combustibles, Dry, TRU Mixed Waste Dry combustibles such as paper, cloth, wood, etc. This waste has been identified as being low level mixed waste. Item Description 832, Combustibles, Wet, TRU Mixed Waste Wet combustibles such as paper, cloth, and wood which contain a discernible amount of moisture. These combustibles must be drained or wrung prior to packaging to prevent accumulation of free liquid. Item Description 833, Plastic TRU Mixed Waste PVC sheeting, poly bottles, supplied air suits, and other plastics. This waste has been identified as being a low level mixed waste. Item Description 853, Plastic (Teflon, PVC, and Polyethylene)

TWBIR ID: RF-MT0833

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

This waste has been identified as being a low level mixed waste, consisting of PVC sheeting, poly bottles, supplied-air suits, and other plastics.

Current Container Comments N/A

EPA Comments A- Process knowledge based upon general knowledge of waste type or source (e.g., there is some probability of a waste constituent being absent or present).

Bounding analytical data have not been compiled in a form that is compatible with this report. This effort has been completed and the results are available in the Final Backlog Baseline Book dated September 26, 1994.

Management Comments N/A

Acceptance Comments GENERAAREA: Numerous locations throughout RFP.GENOPERATI: RECLASS_CO: Rocky Flats assays wastes to determine waste type instead of relying on process knowledge or historical data. For this reason, the potential for reclassification has not been analyzed.CATION: Not applicable OTHER_CHAR: No information available.

RFP has assumed this waste to be LDR based on process knowledge characterization, and one sample analyzed for volatiles in 1988.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. Analytical data are limited. WASTE_PACK: This waste is stored in 55 gallon carbon steel drums with one rigid polyethylene liner and several bag liners and standard metal boxes.

Final Form Comments N/A

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TWBIR ID: RF-MT0855

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W032	**Handling**	CH	**Stream Name**	Ground glass/TRM			**Inventory Date**	9/30/2002
Local ID	IDC 444, 855	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5122

EPA Codes

As-Generated
D009

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	10.50	10.50	10.50
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	59.19	24.34	94.04
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	12.89	8.59	17.18
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.43		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

116

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	4.16E-03
Pu-239	8.86E-02
Pu-240	2.03E-02
Pu-241	5.19E-01
Pu-242	2.57E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0855

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8802 Can	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated	Stored	1.5	Projected	0.0	Total	1.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.7	0.0	0.0	0.0	0.0	1.7

Final Form	Stored	1.7	Projected	0.0	Total	1.7

TWBIR ID: RF-MT0855

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Matrix consits of crushed glass light bulbs.
Waste Stream Source Description	Item Description Code 444--Ground Glass and Leaded Glovebox Glass This IDC includes ground fluorescent bulbs and leaded glass used throughout the plutonium-and uranium-processing areas. The material was generated as waste or residue when glovebox glass was replaced, or as low-level waste when fluorescent light bulbs were replaced. IDC 444 materials in the backlog inventory were generated in Building 371, 374, 559, 707, 771, and 776. Item Description Code 855-Ground Glass This IDC includes ground glass from fluorescent light bulbs. It can be used for waste generated outside the PA and for nonline-generated waste. In other words, it can only be used for low-level mixed waste.
Current Container Comments	N/A
EPA Comments	Analytical data for IDC 855 show that there are enough cases where the samples fail the Toxicity Characteristic Leaching Procedure (TCLP), that the waste bulbs should be managed as hazardous waste and assigned the EPA code D009.
Management Comments	N/A
Acceptance Comments	LDR_DETERM: Net and gross weight data are not available for all container types. RFP has assumed this waste to be LDR based on the fact that it is a RCRA listed waste. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: The glass waste is packaged in 55- gallon drums that are lined with one fiberboard liner and two polyethylene bags or metal boxes. Drums are placed in TRUPACT II containers.
Final Form Comments	N/A

TWBIR ID: RF-MT0857

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W097	**Handling**	CH	**Stream Name**	Solidified Process Solids/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
D006, D007, D008, F001, F002, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	57.28	57.28	57.28
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	34.37	34.37	34.37
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	17.18	17.18	17.18
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.43		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Waste Treatment

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.26E+00
Pu-238	9.16E-01
Pu-239	3.54E+01
Pu-240	8.04E+00
Pu-241	8.07E+01
Pu-242	4.91E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0857

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RF-MT0857

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Dried sludge from the vitrification of radioactive waste.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	EPA hazardous waste numbers are assigned to this waste stream based on process knowledge.
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT0H61

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W076	**Handling**	CH	**Stream Name**	Process Residues/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
D006, D007, D008, D018, D019

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	19.44	0.96	42.96
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	23.87	23.87	23.87
Other Inorganic Materials	92.37	1.43	493.57
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	15.87	2.20	41.05
Solidified, Inorganic Matrix	80.40	0.48	339.39
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	514.79		
Packaging Material, Plastic	24.02		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Residue Repackaging/Decontamination and Decommissioning

TRUCON Codes

130

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.26E+00
Pu-238	9.16E-01
Pu-239	3.54E+01
Pu-240	8.04E+00
Pu-241	8.07E+01
Pu-242	4.91E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT0H61

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2
POC / 55 gallon	7.5	0.0	0.0	0.0	0.0	7.5

As-Generated	Stored	Projected	Total
	7.7	0.0	7.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
55 Gallon POCs	7.5	0.0	0.0	0.0	0.0	7.5

Final Form	Stored	Projected	Total
	7.7	0.0	7.7

TWBIR ID: RF-MT0H61

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consists of plutonium oxide removed from ductwork. The material includes both dry particulates and moist sludges with graphite and varying concentrations of plutonium.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	EPA hazardous waste numbers are assigned to this waste stream based on process knowledge.
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT2116

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W096	**Handling**	CH	**Stream Name**	Supercompacted Combustibles/TRM	**Inventory Date**	9/30/2002
Local ID	2116	**Waste Type**	MTRU	**Generator Site**	RF, RF	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
D007, D008, F001, F002, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	2.97	0.10	105.49
Aluminum-Base Metal/Alloys	0.78	0.48	1.19
Other Metal/Alloys	2.84	0.10	12.32
Other Inorganic Materials	7.27	0.24	267.31
Cellulosics	12.83	10.98	12.89
Rubber	43.41	0.14	214.95
Plastics	136.75	5.25	793.34
Solidified, Inorganic Matrix	2.77	2.77	2.77
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	13.80	8.02	19.57
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.49		
Packaging Material, Plastic	28.24		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Pollution Control or Waste Treatment Process

TRUCON Codes

116

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.83E+00
Np-237	1.18E-05
Pu-238	2.69E-01
Pu-239	6.07E+00
Pu-240	1.38E+00
Pu-241	3.17E+01
Pu-242	1.69E-04
U-234	1.72E-04
U-235	5.59E-06
U-238	5.48E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT2116

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	2.1	0.0	0.0	0.0	0.0	2.1

As-Generated	Stored	Projected	Total
	2.1	0.0	2.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1

Final Form	Stored	Projected	Total
	2.1	0.0	2.1

TWBIR ID: RF-MT2116

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consists of cloth and paper products from cleanup of gloveboxes and spills, which has been supercompacted for volume reduction.
Waste Stream Source Description	Item Description Code 2116 - IDC 2116 is Supercompacted TRU-mixed combustible waste (IDCs 831, 832, and 833). Refer to Waste Form RF-W012 for details of these IDCs. Containers of IDC 2116 were generated in Building 776. The WSRIC stream number is 776-13-40 (a/o 3/2/95). Soft wastes are inspected for rejectable items, including free liquids and metal, which are separated from the soft waste for further disposition. Soft wastes are moved to the precompactor where they are placed in an empty 35-gallon drum located in the precompactor. The soft waste is precompacted using a 30-ton precompactor. Once the drum is filled with precompacted waste, the lid is placed on the drum. The drum is transferred to the appropriate glovebox line for piercing. Prior to supercompaction, drums of soft waste are pierced with four holes to allow air to escape and to reduce the amount of "springback" during supercompaction. After piercing, the drums are moved to the supercompactor. A mold is lowered over the drum. Once the mold is in place, the supercompactor is lowered, compacting the drum. Liquid forced out of the waste during compaction is collected by the liquid waste collection system. After supercompaction, the pucks (supercompacted 35-gallon drums) are moved to staging. An operator selects from the available pucks to efficiently fill 55-gallon loadout drums.
Current Container Comments	N/A
EPA Comments	Subpopulation 52NW consists of super compacted combustible waste (IDC 2116) from generation prefix 0057. These wastes are characterized in WEMS as hazardous with EPA codes F001 and F002. According to the container paperwork, these containers were originally characterized under WSRIC process descriptions 776-13-1 or 776-13-40 (Supercompactor Process). WSRIC process description 776-13-1 was written for samples and therefore does not include any characterization information. WSRIC process description 776-13-40 includes several other EPA codes in addition to F001 and F002. However, it states in the characterization rationale for this WSRIC that codes are listed for all possible contaminants and that the actual EPA codes to be applied are indicated in the W/RT and/or WEMS for individual containers. There is no information available to refute the characterization provided in WEMS. Therefore, this waste is characterized as hazardous and EPA codes F001 and F002 are retained. Subpopulation 52NX consists of super compacted combustible waste (IDC 2116) from generation prefix 0057. These wastes are characterized in WEMS with EPA Codes D007, D008, F001, F002, and F005. No container information is available to support or refute this characterization, so the EPA codes have been retained and these wastes are characterized as RCRA hazardous. They are assumed to exhibit the characteristic of toxicity for chromium and lead and to be contaminated with unspecified F001, F002, and F005 solvents. These wastes have probably come into contact with paint and paint thinner.
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT3010

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W011	**Handling**	CH	**Stream Name**	Metal/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
D008, D011, F001, F002

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	243.11	38.45	585.72
Aluminum-Base Metal/Alloys	12.54	0.96	41.03
Other Metal/Alloys	12.58	0.11	52.65
Other Inorganic Materials	15.80	1.04	32.26
Cellulosics	7.82	4.31	12.89
Rubber	5.94	0.86	12.24
Plastics	18.62	2.05	87.35
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	146.85		
Packaging Material, Plastic	16.52		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	Y
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

130

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.47E-01
Np-237	5.72E-06
Pu-238	1.04E-01
Pu-239	2.25E+00
Pu-240	5.16E-01
Pu-241	1.27E+01
Pu-242	6.27E-05
U-234	7.03E-06
U-235	2.27E-07
U-238	9.27E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT3010

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	1.0	12.1	0.0	0.0	0.0	13.1
Standard Waste Box	9.5	9.5	0.0	0.0	0.0	19.0

As-Generated	Stored	Projected	Total
	10.5	21.6	32.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.0	0.0	0.0	0.0	0.0	13.1
Standard Waste Box	9.4	0.0	0.0	0.0	0.0	18.9

Final Form	Stored	Projected	Total
	10.5	21.5	32.0

TWBIR ID: RF-MT3010

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"This IDC is assigned to composite debris, rubble, or material composed of such things as gloveboxes, process equipment and other inorganic materials, such as concrete, glass, firebrick, ceramics, asbestos, etc. The materials contain up to 10 weight percent hydrogenous (organic) material such as cellulosics, Plexiglas, rubber, small quantities of nonhazardous liquid (e.g., Texaco 650 oil) absorbed or solidified using Oil Dri or Nochar polymer, or other organic materials associated with the waste items."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	EPA hazardous waste numbers are assigned to this waste stream based on process knowledge.
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT3011

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W011	**Handling**	CH	**Stream Name**	Metal/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5490

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, F001, F002, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	201.22	4.02	712.33
Aluminum-Base Metal/Alloys	7.12	0.16	32.94
Other Metal/Alloys	69.29	0.76	566.71
Other Inorganic Materials	36.28	0.14	358.76
Cellulosics	4.40	4.31	12.89
Rubber	4.22	0.11	47.72
Plastics	29.66	0.43	225.63
Solidified, Inorganic Matrix	4.73	0.53	10.67
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	16.23	0.71	52.54
Soils	0.00	0.00	0.00
Packaging Material, Steel	152.68		
Packaging Material, Plastic	5.18		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	Y
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

121

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.57E-01
Np-237	6.84E-06
Pu-238	7.20E-02
Pu-239	1.53E+00
Pu-240	3.52E-01
Pu-241	8.98E+00
Pu-242	4.44E-05
U-234	1.55E-05
U-235	5.03E-07
U-238	3.87E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT3011

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	2.7	0.8	0.0	0.0	0.0	3.5
POC / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2
Standard Waste Box	212.8	136.8	0.0	0.0	0.0	349.6

As-Generated	Stored	Projected	Total
	215.7	137.6	353.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.7	0.0	0.0	0.0	0.0	3.5
55 Gallon POCs	0.2	0.0	0.0	0.0	0.0	0.2
Standard Waste Box	211.7	0.0	0.0	0.0	0.0	347.8

Final Form	Stored	Projected	Total
	214.6	136.9	351.5

TWBIR ID: RF-MT3011

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"This IDC is assigned to composite debris, rubble, or material composed of such things as gloveboxes, process equipment and other inorganic materials, such as concrete, glass, firebrick, ceramics, asbestos, etc. This material typically contains greater than 10 weight percent hydrogenous (organic) material such as cellulosics, plastic, Plexiglas, rubber, small quantities of nonhazardous liquid (e.g., Texaco 650 oil) absorbed or solidified using Oil Dri or Nochar polymer, or other organic materials associated with the waste items; however, there is no upper limit for the amount of hydrogenous material. "
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	EPA hazardous waste numbers are assigned to this waste stream based on process knowledge.
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT420P

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W040	**Handling**	CH	**Stream Name**	Incinerator Ash/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3111

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, F001, F002, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	11.32	2.86	30.07
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	8.49	5.73	17.18
Other Inorganic Materials	11.20	3.82	49.17
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	1.69	1.15	3.44
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	524.67		
Packaging Material, Plastic	23.88		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Residue Repackaging/Waste Treatment

TRUCON Codes

130

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.25E+00
Np-237	1.86E-06
Pu-238	1.14E+00
Pu-239	3.94E+01
Pu-240	9.04E+00
Pu-241	9.19E+01
Pu-242	6.87E-04
U-234	6.22E-05
U-235	2.00E-06
U-238	1.77E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT420P

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Can / 6-Liter	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 30 gallon	0.2	0.0	0.0	0.0	0.0	0.2
POC / 55 gallon	160.2	0.0	0.0	0.0	0.0	160.2

As-Generated	Stored	160.4	Projected	0.0	Total	160.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
30 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
55 Gallon POCs	160.7	0.0	0.0	0.0	0.0	160.7

Final Form	Stored	160.9	Projected	0.0	Total	160.9

TWBIR ID: RF-MT420P

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Blended incinerator ash consists in all or part of the following IDCs: pulverized incinerator ash (IDC 420), ash heel (IDC 421), soot (IDC 422), , and ash selected for MMEC (IDC 428). These IDCs are blended together to adjust plutonium content and container fill height. When low plutonium content feedstock for blending is unavailable, a surrogate material may be used."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	EPA hazardous waste numbers are assigned to this waste stream based on process knowledge and confirmed by WIPP characterization sampling and analysis.
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT532A

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W068	**Handling**	CH	**Stream Name**	Particulate Sludge/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
TBD

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	19.44	0.96	42.96
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	23.87	23.87	23.87
Other Inorganic Materials	92.37	1.43	493.57
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	15.87	2.20	41.05
Solidified, Inorganic Matrix	80.40	0.48	339.39
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.22		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Waste Repackaging

TRUCON Codes

130

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.50E+00
Np-237	1.87E-04
Pu-238	6.73E-01
Pu-239	1.47E+01
Pu-240	3.35E+00
Pu-241	8.33E+01
Pu-242	4.88E-04
U-234	7.08E-05
U-235	2.61E-06
U-238	4.60E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT532A

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	0.0	0.0	0.0	0.0	0.0	18.3

As-Generated	Stored	0.0	Projected	18.3	Total	18.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	0.0	0.0	0.0	0.0	0.0	18.3

Final Form	Stored	0.0	Projected	18.3	Total	18.3

TWBIR ID: RF-MT532A

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Downblended oxides, less than 10 percent, contains uranium consists of plutonium and uranium oxides blended with surrogate materials to less than 10 percent plutonium/uranium concentration. Material is particulate ranging in size from finely divided powder to granular. "
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	EPA hazardous waste numbers are assigned to this waste stream based on process knowledge and confirmed by WIPP characterization sampling and analysis.
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT532B

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W068	**Handling**	CH	**Stream Name**	Particulate Sludge/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
TBD

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	19.44	0.96	42.96
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	23.87	23.87	23.87
Other Inorganic Materials	92.37	1.43	493.57
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	15.87	2.20	41.05
Solidified, Inorganic Matrix	80.40	0.48	339.39
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.22		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Waste Repackaging

TRUCON Codes

130

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.50E+00
Np-237	1.87E-04
Pu-238	6.73E-01
Pu-239	1.47E+01
Pu-240	3.35E+00
Pu-241	8.33E+01
Pu-242	4.88E-04
U-234	7.08E-05
U-235	2.61E-06
U-238	4.60E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT532B

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	0.0	0.0	0.0	0.0	0.0	82.2

As-Generated	Stored	0.0	Projected	82.2	Total	82.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	0.0	0.0	0.0	0.0	0.0	82.2

Final Form	Stored	0.0	Projected	82.2	Total	82.2

TWBIR ID: RF-MT532B

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Downblended oxides, less than 10 percent, may contain moisture consists of plutonium oxides blended with surrogate materials to absorb free liquids and dilute plutonium concentration to less than 10 percent. Material is particulate ranging in size from finely divided powder to granular. "
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	EPA hazardous waste numbers are assigned to this waste stream based on process knowledge and confirmed by WIPP characterization sampling and analysis.
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT532C

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W068	**Handling**	CH	**Stream Name**	Particulate Sludge/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
TBD

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	19.44	0.96	42.96
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	23.87	23.87	23.87
Other Inorganic Materials	92.37	1.43	493.57
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	15.87	2.20	41.05
Solidified, Inorganic Matrix	80.40	0.48	339.39
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.22		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Waste Repackaging

TRUCON Codes

130

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.50E+00
Np-237	1.87E-04
Pu-238	6.73E-01
Pu-239	1.47E+01
Pu-240	3.35E+00
Pu-241	8.33E+01
Pu-242	4.88E-04
U-234	7.08E-05
U-235	2.61E-06
U-238	4.60E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT532C

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	0.0	0.0	0.0	0.0	0.0	164.7

As-Generated	Stored	0.0	Projected	164.7	Total	164.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	0.0	0.0	0.0	0.0	0.0	164.7

Final Form	Stored	0.0	Projected	164.7	Total	164.7

TWBIR ID: RF-MT532C

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Downblended miscellaneous oxides, less than 10 percent consists of plutonium and uranium oxides blended with surrogate materials to dilute plutonium/uranium concentration to less than 10 percent. Material is particulate ranging in size from finely divided powder to granular. "
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	EPA hazardous waste numbers are assigned to this waste stream based on process knowledge and confirmed by WIPP characterization sampling and analysis.
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-MT532D

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W068	**Handling**	CH	**Stream Name**	Particulate Sludge/TRM			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
TBD

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	19.44	0.96	42.96
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	23.87	23.87	23.87
Other Inorganic Materials	92.37	1.43	493.57
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	15.87	2.20	41.05
Solidified, Inorganic Matrix	80.40	0.48	339.39
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.22		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Waste Repackaging

TRUCON Codes

130

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.50E+00
Np-237	1.87E-04
Pu-238	6.73E-01
Pu-239	1.47E+01
Pu-240	3.35E+00
Pu-241	8.33E+01
Pu-242	4.88E-04
U-234	7.08E-05
U-235	2.61E-06
U-238	4.60E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-MT532D

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 gallon POCs	0.0	0.0	0.0	0.0	0.0	1.0

As-Generated	Stored	0.0	Projected	1.0	Total	1.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	0.0	0.0	0.0	0.0	0.0	1.0

Final Form	Stored	0.0	Projected	1.0	Total	1.0

TWBIR ID: RF-MT532D

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	N/A
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	EPA hazardous waste numbers are assigned to this waste stream based on process knowledge and confirmed by WIPP characterization sampling and analysis.
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0069

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W123	**Handling**	CH	**Stream Name**	Oxides/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	8.59	8.59	8.59
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	47.73	47.73	47.73
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	1.91	1.91	1.91
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.57		
Packaging Material, Plastic	32.46		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

111

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.65E-01
Np-237	1.65E-05
Pu-238	8.40E-02
Pu-239	1.79E+00
Pu-240	4.10E-01
Pu-241	1.05E+01
Pu-242	5.18E-05
U-234	3.53E-04
U-235	4.07E-05
U-238	3.16E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0069

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RF-TT0069

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Depleted uranium oxide from decontamination and decommissioning of Buildings 776 and 777.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0200

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W109	**Handling**	CH	**Stream Name**	Metal/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5111

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	35.32	35.32	35.32
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	0.96	0.96	0.96
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.57		
Packaging Material, Plastic	32.46		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Multiple Sources.

TRUCON Codes

117

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.29E+00
Np-237	1.15E-05
Pu-238	1.13E+00
Pu-239	2.46E+01
Pu-240	5.64E+00
Pu-241	1.35E+02
Pu-242	6.90E-04
U-234	1.76E-06
U-235	5.67E-08
U-238	5.01E-10

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0200

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	Projected	Total
	0.6	0.0	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	Projected	Total
	0.6	0.0	0.6

TWBIR ID: RF-TT0200

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Radiological standards including enriched and depleted uranium, americium, and plutonium used for calibration of instrumentation."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0299

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-TT0299	**Handling**	CH	**Stream Name**	N/A			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3129

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	7.16	7.16	7.16
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	8.59	8.59	8.59
Solidified, Inorganic Matrix	10.50	10.50	10.50
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.43		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N/A
PCBs:	N/A
Source:	N/A

TRUCON Codes

111, 112

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.67E+01
Pu-238	6.28E+00
Pu-239	1.34E+02
Pu-240	3.06E+01
Pu-241	7.83E+02
Pu-242	3.87E-03
U-238	1.22E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0299

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: RF-TT0299

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	N/A
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a residue, (i.e., RF-TRXXXX), but is being revised to transuranic, (i.e., RF-TTXXXX).
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0300

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W117	**Handling**	CH	**Stream Name**	Coarse Graphite/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Graphite	**Waste Matrix Code**	S5126

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	2.75	0.96	6.68
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	292.83	7.16	416.72
Cellulosics	12.49	10.50	12.89
Rubber	0.00	0.00	0.00
Plastics	22.13	8.11	25.78
Solidified, Inorganic Matrix	18.57	18.57	18.57
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	231.27		
Packaging Material, Plastic	25.68		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

115

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.68E+00
Np-237	1.01E-05
Pu-238	8.66E-01
Pu-239	1.86E+01
Pu-240	4.28E+00
Pu-241	9.23E+01
Pu-242	4.56E-04
U-234	1.94E-04
U-235	6.26E-06
U-238	3.67E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0300

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 10 gallon	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	30.2	1.2	0.0	0.0	0.0	31.4
POC / 55 gallon	10.0	0.0	0.0	0.0	0.0	10.0

As-Generated	Stored	40.2	Projected	1.2	Total	41.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	30.4	0.0	0.0	0.0	0.0	31.7
55 Gallon POCs	10.0	0.0	0.0	0.0	0.0	10.0

Final Form	Stored	40.4	Projected	1.3	Total	41.7

TWBIR ID: RF-TT0300

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste form includes graphite chunks and coarse graphite .
Waste Stream Source Description	Item Description Code 300, Graphite Molds During the casting of plutonium in production foundry operations, the plutonium casting operations in Building 707 generated used graphite molds. The workinig surfaces were coated with calcium fluoride prior to using the mold. After the plutonium casting was removed from the mold, the molds were collected in a drum. Drums that contained recoverable amounts of plutonium were stored for subsequent scarfing of molds. Item Description Code 301, Classified Graphite Shapes During the casting of plutonium in production foundry operations, classified molds are segregated from nonclassified molds. Prior to 1984, the classified molds were destroyed in Building 776. Item Description Code 303, Scarfed Graphite Chunks After the casting of plutonium in production foundry operations, IDCs 300 and 301 were mechanically cleaned using a hand-held rotary-type sanding tool to grind off contamination in Buildings 371, 707, 771, and 777, generating Scarfed Graphite Chunks. The mechanical cleaning (scarfing) of the mold surface removes most of the mold coating and plutonium contamination. This process generated IDC 303 and 310, as well as IDC 312. Item Description Code 310, Graphite Scarfing and Fines After the casting of plutonium in production foundry operations, IDC 300 was mechanically cleaned in Buildings 371, 707, 771, and 777, generating graphite scarfings and fines. The mechanical cleaning (scarfing) of the mold surface removes most of the mold coating and plutonium contamination. Material generated in this process were fines and small pieces of graphite coated with calcium fluoride and plutonium. This material was then subjected to nondestructive assay to determne actinide content, and collected for disposition. Item Description Code 312, Graphite Coarse After the casting of plutonium in production foundry operation, IDC 300 was mechanically cleaned in Buildings 371, 707, 771, and 777, generating coarse graphite. Material generated in this process was chunk pieces of graphite produced as a by-product of IDC 310 generation.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0301

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W117	**Handling**	CH	**Stream Name**	Coarse Graphite/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Graphite	**Waste Matrix Code**	S5126

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	2.75	0.96	6.68
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	292.83	7.16	416.72
Cellulosics	12.49	10.50	12.89
Rubber	0.00	0.00	0.00
Plastics	22.13	8.11	25.78
Solidified, Inorganic Matrix	18.57	18.57	18.57
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.44		
Packaging Material, Plastic	26.25		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

115

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.68E+00
Np-237	1.01E-05
Pu-238	8.66E-01
Pu-239	1.86E+01
Pu-240	4.28E+00
Pu-241	9.23E+01
Pu-242	4.56E-04
U-234	1.94E-04
U-235	6.26E-06
U-238	3.67E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0301

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	5.8	0.0	0.0	0.0	0.0	5.8

As-Generated	Stored	5.8	Projected	0.0	Total	5.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	5.8	0.0	0.0	0.0	0.0	5.8

Final Form	Stored	5.8	Projected	0.0	Total	5.8

TWBIR ID: RF-TT0301

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste form includes graphite chunks and coarse graphite .
Waste Stream Source Description	Item Description Code 300, Graphite Molds During the casting of plutonium in production foundry operations, the plutonium casting operations in Building 707 generated used graphite molds. The workinig surfaces were coated with calcium fluoride prior to using the mold. After the plutonium casting was removed from the mold, the molds were collected in a drum. Drums that contained recoverable amounts of plutonium were stored for subsequent scarfing of molds. Item Description Code 301, Classified Graphite Shapes During the casting of plutonium in production foundry operations, classified molds are segregated from nonclassified molds. Prior to 1984, the classified molds were destroyed in Building 776. Item Description Code 303, Scarfed Graphite Chunks After the casting of plutonium in production foundry operations, IDCs 300 and 301 were mechanically cleaned using a hand-held rotary-type sanding tool to grind off contamination in Buildings 371, 707, 771, and 777, generating Scarfed Graphite Chunks. The mechanical cleaning (scarfing) of the mold surface removes most of the mold coating and plutonium contamination. This process generated IDC 303 and 310, as well as IDC 312. Item Description Code 310, Graphite Scarfing and Fines After the casting of plutonium in production foundry operations, IDC 300 was mechanically cleaned in Buildings 371, 707, 771, and 777, generating graphite scarfings and fines. The mechanical cleaning (scarfing) of the mold surface removes most of the mold coating and plutonium contamination. Material generated in this process were fines and small pieces of graphite coated with calcium fluoride and plutonium. This material was then subjected to nondestructive assay to determne actinide content, and collected for disposition. Item Description Code 312, Graphite Coarse After the casting of plutonium in production foundry operation, IDC 300 was mechanically cleaned in Buildings 371, 707, 771, and 777, generating coarse graphite. Material generated in this process was chunk pieces of graphite produced as a by-product of IDC 310 generation.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0302

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W101	**Handling**	CH	**Stream Name**	Combustibles/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5313

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	5.28	0.48	41.43
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	193.70	42.96	304.54
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.44		
Packaging Material, Plastic	25.78		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

121

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.28E-02
Np-237	3.21E-07
Pu-238	1.85E-02
Pu-239	4.30E-01
Pu-240	9.86E-02
Pu-241	2.27E+00
Pu-242	1.12E-05
U-234	4.03E-05
U-235	1.30E-06
U-238	1.15E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0302

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	7.7	1.0	0.0	0.0	0.0	8.7

As-Generated	Stored	7.7	Projected	1.0	Total	8.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	7.7	0.0	0.0	0.0	0.0	8.8

Final Form	Stored	7.7	Projected	1.0	Total	8.8

TWBIR ID: RF-TT0302

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consists of Benelex shielding and Plexiglass glovebox windows.
Waste Stream Source Description	IDC 302 includes Benelex and Plexiglas. Benelex is a very dense organic material used for radiation shielding around gloveboxes and tanks. In some cases, Benelex is laminated with lead. However, none of the containers identified here have lead lamination. The Benelex used by RFETS is usually 2 inches thick, although occasionally two 2-inch thick pieces were bolted together to increase shield thickness. Plexiglas is a trade name used to describe a family of polycarbonate materials used for radiation shielding in glovebox windows and equipment enclosures. Plexiglas glovebox windows are generally 2- to 4-inches thick and can be in various sizes and shapes. Benelex and Plexiglas in the inventory were generated in Buildings 371, 707, 771, and 776. The IDC was generated as waste during replacement of shielding or stripout of unnecessary shielding during the installation of new gloveboxes or tanks. IDC 330 is dry combustibles such as cloth, paper, and wood. This IDC changes to 821, 831, 851, or 861 at the point of assay, depending upon radiological content IDC 336, wet combustibles, are materials such as, paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent an accumulation of free liquid. This IDC changes to 822, 832, 833, or 862 at the point of assay. IDC 337 is PVC sheeting, poly bottles, supplied-air suits, polyethylene, and other plastics. This IDC changes to 825, 833, 853, or 863 at the point of assay. IDC 487 is classified plastic shapes used in handling and shipping. If TRU, shapes must be declassified prior to shipment. If LLW, IDC must be authorized by NTS prior to shipment. Classified Waste drums must be stenciled and handled according to Safeguards and Security procedures. IDC 821 is dry combustibles such as paper, cloth, and wood. IDC 822 is wet combustibles such as paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent accumulation of free liquid. ICD 825 is PVC sheeting, poly bottles, supplied-air suits, and other plastic. IDC 831 is dry combustibles such as paper, cloth, and wood. IDC 832 is wet combustibles such as paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent accumulation of free liquid. IDC 833 is PVC sheeting, poly bottles, supplied-air suits, and other plastics.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A

TWBIR ID: RF-TT0302

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Comments N/A

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TWBIR ID: RF-TT0303

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W117	**Handling**	CH	**Stream Name**	Coarse Graphite/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Graphite	**Waste Matrix Code**	S5126

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	447.75	440.11	455.38
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	12.89	8.59	17.18
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.43		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

115

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.06E+00
Np-237	3.91E-05
Pu-238	8.58E-01
Pu-239	1.83E+01
Pu-240	4.19E+00
Pu-241	1.07E+02
Pu-242	5.29E-04
U-234	8.31E-04
U-235	2.68E-05
U-238	2.21E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0303

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	1.2	0.0	0.0	0.0	0.0	1.2

As-Generated	Stored	Projected	Total
	1.2	0.0	1.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.3	0.0	0.0	0.0	0.0	1.3

Final Form	Stored	Projected	Total
	1.3	0.0	1.3

TWBIR ID: RF-TT0303

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste form includes graphite chunks and coarse graphite .
Waste Stream Source Description	Item Description Code 300, Graphite Molds During the casting of plutonium in production foundry operations, the plutonium casting operations in Building 707 generated used graphite molds. The workinig surfaces were coated with calcium fluoride prior to using the mold. After the plutonium casting was removed from the mold, the molds were collected in a drum. Drums that contained recoverable amounts of plutonium were stored for subsequent scarfing of molds. Item Description Code 301, Classified Graphite Shapes During the casting of plutonium in production foundry operations, classified molds are segregated from nonclassified molds. Prior to 1984, the classified molds were destroyed in Building 776. Item Description Code 303, Scarfed Graphite Chunks After the casting of plutonium in production foundry operations, IDCs 300 and 301 were mechanically cleaned using a hand-held rotary-type sanding tool to grind off contamination in Buildings 371, 707, 771, and 777, generating Scarfed Graphite Chunks. The mechanical cleaning (scarfing) of the mold surface removes most of the mold coating and plutonium contamination. This process generated IDC 303 and 310, as well as IDC 312. Item Description Code 310, Graphite Scarfing and Fines After the casting of plutonium in production foundry operations, IDC 300 was mechanically cleaned in Buildings 371, 707, 771, and 777, generating graphite scarfings and fines. The mechanical cleaning (scarfing) of the mold surface removes most of the mold coating and plutonium contamination. Material generated in this process were fines and small pieces of graphite coated with calcium fluoride and plutonium. This material was then subjected to nondestructive assay to determne actinide content, and collected for disposition. Item Description Code 312, Graphite Coarse After the casting of plutonium in production foundry operation, IDC 300 was mechanically cleaned in Buildings 371, 707, 771, and 777, generating coarse graphite. Material generated in this process was chunk pieces of graphite produced as a by-product of IDC 310 generation.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0310

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-TT0310	**Handling**	CH	**Stream Name**	N/A	**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5126

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	7.51	1.10	11.93
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	14.85	0.96	31.98
Cellulosics	136.23	12.89	167.07
Rubber	0.00	0.00	0.00
Plastics	3.03	0.33	5.73
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	405.55		
Packaging Material, Plastic	27.11		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N/A
PCBs:	N/A
Source:	N/A

TRUCON Codes

115

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.80E+00
Np-237	1.91E-05
Pu-238	1.61E+00
Pu-239	3.29E+01
Pu-240	7.77E+00
Pu-241	1.57E+02
Pu-242	8.34E-04
U-234	5.94E-05
U-235	1.91E-06
U-238	1.69E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0310

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.4	0.0	0.0	0.0	0.0	0.4
POC / 55 gallon	2.7	0.0	0.0	0.0	0.0	2.7

As-Generated	Stored	3.1	Projected	0.0	Total	3.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
55 Gallon POCs	2.7	0.0	0.0	0.0	0.0	2.7

Final Form	Stored	3.1	Projected	0.0	Total	3.1

TWBIR ID: RF-TT0310

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	N/A
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a residue, (i.e., RF-TRXXXX), but is being revised to transuranic, (i.e., RF-TTXXXX).
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0312

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W117	**Handling**	CH	**Stream Name**	Coarse Graphite/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Graphite	**Waste Matrix Code**	S5126

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	15.99	2.39	143.68
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	36.55	1.43	273.99
Cellulosics	164.93	12.89	167.07
Rubber	0.00	0.00	0.00
Plastics	26.75	9.55	132.70
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	436.60		
Packaging Material, Plastic	25.63		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

115

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.76E+00
Np-237	7.46E-06
Pu-238	1.57E+00
Pu-239	3.88E+01
Pu-240	8.81E+00
Pu-241	1.78E+02
Pu-242	9.17E-04
U-234	3.05E-05
U-235	9.83E-07
U-238	2.18E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0312

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	3.7	0.0	0.0	0.0	0.0	3.7
POC / 55 gallon	54.1	0.0	0.0	0.0	0.0	54.1

As-Generated	Stored	Projected	Total
	57.8	0.0	57.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	3.8	0.0	0.0	0.0	0.0	3.8
55 Gallon POCs	54.2	0.0	0.0	0.0	0.0	54.2

Final Form	Stored	Projected	Total
	57.9	0.0	57.9

TWBIR ID: RF-TT0312

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste form includes graphite chunks and coarse graphite .
Waste Stream Source Description	Item Description Code 300, Graphite Molds During the casting of plutonium in production foundry operations, the plutonium casting operations in Building 707 generated used graphite molds. The workinig surfaces were coated with calcium fluoride prior to using the mold. After the plutonium casting was removed from the mold, the molds were collected in a drum. Drums that contained recoverable amounts of plutonium were stored for subsequent scarfing of molds. Item Description Code 301, Classified Graphite Shapes During the casting of plutonium in production foundry operations, classified molds are segregated from nonclassified molds. Prior to 1984, the classified molds were destroyed in Building 776. Item Description Code 303, Scarfed Graphite Chunks After the casting of plutonium in production foundry operations, IDCs 300 and 301 were mechanically cleaned using a hand-held rotary-type sanding tool to grind off contamination in Buildings 371, 707, 771, and 777, generating Scarfed Graphite Chunks. The mechanical cleaning (scarfing) of the mold surface removes most of the mold coating and plutonium contamination. This process generated IDC 303 and 310, as well as IDC 312. Item Description Code 310, Graphite Scarfing and Fines After the casting of plutonium in production foundry operations, IDC 300 was mechanically cleaned in Buildings 371, 707, 771, and 777, generating graphite scarfings and fines. The mechanical cleaning (scarfing) of the mold surface removes most of the mold coating and plutonium contamination. Material generated in this process were fines and small pieces of graphite coated with calcium fluoride and plutonium. This material was then subjected to nondestructive assay to determne actinide content, and collected for disposition. Item Description Code 312, Graphite Coarse After the casting of plutonium in production foundry operation, IDC 300 was mechanically cleaned in Buildings 371, 707, 771, and 777, generating coarse graphite. Material generated in this process was chunk pieces of graphite produced as a by-product of IDC 310 generation.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0317

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W113	**Handling**	CH	**Stream Name**	Glass/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	57.28	57.28	57.28
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	34.37	34.37	34.37
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	17.18	17.18	17.18
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.43		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Residue Vitrification Study

TRUCON Codes

122

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.21E-02
Pu-238	4.74E-01
Pu-239	1.01E+01
Pu-240	2.31E+00
Pu-241	5.92E+01
Pu-242	2.92E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0317

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RF-TT0317

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Monoliths created from the vitrification of ash residues and glass frit.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0320

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W111	**Handling**	CH	**Stream Name**	Heavy Metal (non-SS)/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5111

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	41.91	1.91	144.16
Aluminum-Base Metal/Alloys	4.77	4.77	4.77
Other Metal/Alloys	126.66	11.31	398.10
Other Inorganic Materials	38.31	37.95	38.67
Cellulosics	29.91	25.78	31.98
Rubber	0.00	0.00	0.00
Plastics	19.94	3.01	47.73
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.47		
Packaging Material, Plastic	27.94		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

117

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.29E+00
Np-237	1.15E-05
Pu-238	1.13E+00
Pu-239	2.46E+01
Pu-240	5.64E+00
Pu-241	1.35E+02
Pu-242	6.90E-04
U-234	1.76E-06
U-235	5.67E-08
U-238	5.01E-10

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0320

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8802 Can	0.0	0.0	0.0	0.0	0.0	0.0
8804 Can	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	21.4	2.9	0.0	0.0	0.0	24.3

As-Generated	Stored	21.4	Projected	2.9	Total	24.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	21.9	0.0	0.0	0.0	0.0	24.8

Final Form	Stored	21.9	Projected	2.9	Total	24.8

TWBIR ID: RF-TT0320

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, these scrap metals consist of crucibles, funnels, rods and fixturing from several processes and production operations. Tantalum, tungsten and platinum are examples of scrap metals at the RFP.
Waste Stream Source Description	Heavy metals have been produced as by-products of Rocky Flats operations in Buildings 371, 707, 771, 776, 777, 779, and 865; they are identified by IDC 320. The IDC 320 heavy nonspecial source metal was generated in various locations throughout the Rocky Flats and is stored in Resource Conservation and Recovery Act (RCRA) Units 11, 12, 13, 15A, and 20. This IDC includes nonstainless-steel metals that are heavier than iron. Examples of this waste include crucibles, funnels, rods, and process fixtures. These items are made primarily from tantalum, tungsten, and platinum, but some parts could have been manufactured or contaminated with lead if the accumulation start date was prior to 1987. IDC 320 originally included lead. During maintenance operations, the maintenance shop in Building 371 generated heavy metal vessels, instruments, rods, andplates fabricated from tantalum, tungsten, and platinum. The shop generated these items during 4 1/2 years of operation from 1983 until 1988. Of these containers in storage, 19 backlog containers have an EPA Code of D008 (lead); eight of these were produced after 1987. Building 707, Modules A and J, generated heavy metals inits foundry operations. these heavy metals were primarily crucibles and pans used for presampling. These processes generated material during 6 1/2 years of operation from 1985 until 1991. Nine backlog containers have an EPA Code of D008 (lead). The plutonium recovery operations in Building 771 generated leached Oralloy parts consisting of tantalum, tungsten, and platinum. The system generated material during 3 years of operation from 1987 until 1990. Five backlog containers have an EPA Code of D008 (lead); Four of these backlog containers were produced after 1987. bulding 776, Pyrochemical Processing, generated material during heel processes. Eight containers have an EPA Code of D008 (lead). Building 777, the Coatings Laboratory, generated material during a 2-year period fo operation from 1988 until 1990. This material consists primarily of various heavy metals used in the research and development of coating technologies. These backlog containers have been associated with lead as a constituent and were produced after 1987. The Residue Treatment Technology Group, Building 779, generated crucibles, stirrers, and other general lab equipment derived from tantalum and tungsten. In Building 779, the Physical Metallurgy Group generated tantalum materials used in casting and cast testing. Additionally, the Surface Analysis Laboratory in Building 779 generated heavy metal samples primarily of depleted uranium (D-38). IDC 320 material was produced by Building 779 operations over a 10-year period from 1981 until 1991. Nine backlog containers have an EPA Code fo D008 (lead), six were produced after 1987.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0330

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W101	**Handling**	CH	**Stream Name**	Combustibles/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	8.97	1.43	32.94
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	37.23	8.59	159.43
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.52		
Packaging Material, Plastic	22.72		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

116

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.43E+00
Np-237	8.47E-06
Pu-238	6.41E-01
Pu-239	2.53E+01
Pu-240	6.22E+00
Pu-241	6.86E+01
Pu-242	4.28E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0330

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	13.1	1.9	0.0	0.0	0.0	15.0

As-Generated	Stored	13.1	Projected	1.9	Total	15.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	13.1	0.0	0.0	0.0	0.0	15.0

Final Form	Stored	13.1	Projected	1.9	Total	15.0

TWBIR ID: RF-TT0330

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills.
Waste Stream Source Description	IDC 302 includes Benelex and Plexiglas. Benelex is a very dense organic material used for radiation shielding around gloveboxes and tanks. In some cases, Benelex is laminated with lead. However, none of the containers identified here have lead lamination. The Benelex used by RFETS is usually 2 inches thick, although occasionally two 2-inch thick pieces were bolted together to increase shield thickness. Plexiglas is a trade name used to describe a family of polycarbonate materials used for radiation shielding in glovebox windows and equipment enclosures. Plexiglas glovebox windows are generally 2- to 4-inches thick and can be in various sizes and shapes. Benelex and Plexiglas in the inventory were generated in Buildings 371, 707, 771, and 776. The IDC was generated as waste during replacement of shielding or stripout of unnecessary shielding during the installation of new gloveboxes or tanks. IDC 330 is dry combustibles such as cloth, paper, and wood. This IDC changes to 821, 831, 851, or 861 at the point of assay, depending upon radiological content IDC 336, wet combustibles, are materials such as, paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent an accumulation of free liquid. This IDC changes to 822, 832, 833, or 862 at the point of assay. IDC 337 is PVC sheeting, poly bottles, supplied-air suits, polyethylene, and other plastics. This IDC changes to 825, 833, 853, or 863 at the point of assay. IDC 487 is classified plastic shapes used in handling and shipping. If TRU, shapes must be declassified prior to shipment. If LLW, IDC must be authorized by NTS prior to shipment. Classified Waste drums must be stenciled and handled according to Safeguards and Security procedures. IDC 821 is dry combustibles such as paper, cloth, and wood. IDC 822 is wet combustibles such as paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent accumulation of free liquid. ICD 825 is PVC sheeting, poly bottles, supplied-air suits, and other plastic. IDC 831 is dry combustibles such as paper, cloth, and wood. IDC 832 is wet combustibles such as paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent accumulation of free liquid. IDC 833 is PVC sheeting, poly bottles, supplied-air suits, and other plastics.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A

TWBIR ID: RF-TT0330

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Comments N/A

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TWBIR ID: RF-TT-0331

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-TT-0331	**Handling**	CH	**Stream Name**	N/A			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	115.41	0.48	280.20
Aluminum-Base Metal/Alloys	119.34	119.34	119.34
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	36.78	1.91	173.75
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	91.22	3.34	406.70
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	3.66	2.86	4.77
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.54		
Packaging Material, Plastic	31.45		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N/A
PCBs:	N/A
Source:	N/A

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.16E+00
Np-237	1.02E-05
Pu-238	7.93E-01
Pu-239	2.20E+01
Pu-240	4.93E+00
Pu-241	7.91E+01
Pu-242	5.17E-04
U-234	8.43E-04
U-235	2.72E-05
U-238	5.58E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT-0331

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 10 gallon	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	63.2	3.7	0.0	0.0	0.0	67.0

As-Generated	Stored	63.3	Projected	3.7	Total	67.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	63.6	0.0	0.0	0.0	0.0	67.3

Final Form	Stored	63.6	Projected	3.8	Total	67.3

TWBIR ID: RF-TT-0331

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	N/A
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a residue, (i.e., RF-TRXXXX), but is being revised to transuranic, (i.e., RF-TTXXXX).
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT-0334

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-TT-0334	**Handling**	CH	**Stream Name**	N/A			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5129

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	2.36	2.20	2.53
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.57		
Packaging Material, Plastic	32.46		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N/A
PCBs:	N/A
Source:	N/A

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.64E+00
Np-237	2.83E-05
Pu-238	9.76E+00
Pu-239	2.08E+02
Pu-240	4.76E+01
Pu-241	1.22E+03
Pu-242	6.02E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT-0334

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8804 Can	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	2.3	1.0	0.0	0.0	0.0	3.3

As-Generated	Stored	2.3	Projected	1.0	Total	3.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.5	0.0	0.0	0.0	0.0	3.5

Final Form	Stored	2.5	Projected	1.0	Total	3.5

TWBIR ID: RF-TT-0334

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	N/A
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a residue, (i.e., RF-TRXXXX), but is being revised to transuranic, (i.e., RF-TTXXXX).
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0335

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W120	**Handling**	CH	**Stream Name**	Filters & media/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	11.02	0.48	72.46
Aluminum-Base Metal/Alloys	9.08	0.05	58.48
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	5.39	0.19	59.19
Cellulosics	12.63	4.31	12.89
Rubber	8.24	0.05	58.48
Plastics	17.31	1.43	49.64
Solidified, Inorganic Matrix	2.27	0.05	5.73
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.47	0.48	0.48
Packaging Material, Steel	138.81		
Packaging Material, Plastic	27.69		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	Yes
Asbestos:	Yes
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.16E+00
Np-237	1.32E-05
Pu-238	3.13E-01
Pu-239	7.47E+00
Pu-240	1.72E+00
Pu-241	3.46E+01
Pu-242	1.82E-04
U-234	6.50E-04
U-235	2.02E-05
U-238	1.86E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0335

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	50.8	27.7	0.0	0.0	0.0	78.4
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated	Stored	52.7	Projected	27.7	Total	80.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	50.9	0.0	0.0	0.0	0.0	78.6
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	52.8	Projected	27.7	Total	80.5

TWBIR ID: RF-TT0335

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Glovebox HEPA filters.

Waste Stream Source Description Item Description Code 338-Filter Media

The material in this IDC is either the filter media portion of HEPA filters or surface-water filter. HEPA filters are used on gloveboxes and in large filter plenums. Sock filters were used to prefilter operable unit 2 (OU-2) surface water prior to activated carbon treatment.

IDC 338 filter media in this backlog population was derived from HEPA filters from Buildings 371, 374, 559, 707, 771, 776, and from surface-water filters used in OU-2. The HEPA filters could have orginally been assigned IDCs 335, 342, 490, 491, or 492. Filter media from building 374 could have been generated from HEPA filters used in saltcrete processing; therefore, they could be contaminated with RCRA metals and F-listed solvens and sludges. Filter media from Building 771 could have been used to filter nitric acid vapors. Analytical data on the OU-2 surface waters indicates the sock filters are contaminated with F-Listed constitutents carbon tetrachloride, trichloroethylene, and tetrachloroethylene. Chloroform, 1,1,-dichloroethene, and vinyl chloride were also detected in the influent water analysis.

Item Description Code-331 Ful-Flo filters Not From Incinerator

These Ful-Flo filters are in-line cartridge filters used throughout Rocky Flats to remove particulates from fluid streams and typically filter down to 5,1, and 0.5 micron-sized particulates. Ful-Flo filters are used in various liquid systems that include nitric- and chloride-acid systems, such as those found in plutonium recovery operations; caustic systems, such as those found in utilities scrubbing; solvent systems using carbon tetrachloride in machining operations; water systems, such as steam cleaning; and condensate collection. These filters are also used in lubricant oil filtration.

Ful-Flo filters are poly-fiber-wound cartridges, about 10" long by 3.5" in diameter. Other fiber filters, such as R-6 pads, may be included in this IDC. R-6 pads are cloth filters, about sixteen inches in diameter, used to filter solids from nitric acid solutions. Therefore, backlog material in this IDC cannot be considered homogeneous. Filter elements are produced by combining a media blanket and spirally wound matrix yarn on an inner core. The filter elements might have a polypropylene cap on one end. Both the media blanket and matrix yarn can be cotton or polypropylene. The inner core material can be constructed of polypropylene, tinned steel, or stainless steel. Warehouse data from Rocky Flats indicate that the inner-core material is polypropylene.

During normal process operations, IDC 331 Ful-Flo filters in this backlog population were used to filter particulates from liquid waste streams in Buildings 371, 707, 771, 776, 777, and 779. These waste streams were primarily from filtration of caustic solutions in Building 371, the carbon tetrachloride system and oil systems, and from filtration of water and developer in Building 707. In Building 771, the primary waste streams filtered were anion column feed, potassium hydroxide, nitrate feed, spent nitric acid and hydrofluoric acid from the scrubber, eluate and effluent exiting the ion-exchange columns, floor pick-up solution, steam condensate, and miscellaneous aqueous solutions. Hydraulic oil and floor pick-up solution were filtered in Building 776. In Buildings 777 and 779, Ful-Flo filters were used in the carbon tetrachloride system for purification of Freon TF and for filtration of incoming waters.

Typically, Ful-Flo filters were placed on drying racks pending bag-out of a glovebox. Filters were not always dried before removal from the glovebox. Filters were then "bagged out'"of the glovebox and placed in a second layer of plastic. Next, the filters were placed in a "Poly Bottle" or "Clam Shell" (hard plastic container), then placed in a double-lined drum.

These Ful-Flo filters may be contaminated with acids, bases, carbon tetrachloride, chromium, Freon, and oil. They may contain relatively small amounts of free liquids.

Item Description Code 335-HEPA Glovebox Filters, Not Acid Contaminated

The material in this IDC is High Efficiency Particulate Air (HEPA) filters used in ventilation systems at Rocky Flats. HEPA filters have been and are used in all of the buildings which contain plutonium processing activities. HEPA filters are used on gloveboxes and in large filter plenums that filter the room air.

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Used filters were removed from their position in the ventilation system and packaged for further processing. The filters used on gloveboxes (nominal 8" x 8" x 5") were identified as IDC 335 if they were not acid contaminated.

Item Description Code 342-HEPA Glovebox Filters, Acid Contaminated

HEPA filters are used on all gloveboxes to remove particulates from the atmosphere exiting the glovebox to the plenum exhaust system. The filters in IDC 342 are from gloveboxes with atmospheres that could cause the filters to be contaminated with acids or bases used in chemical processing.

Item Description Code 491-Plenum Prefilters

The material in this IDC is a variety of plenum prefilters used in the ventilation systems at Rocky Flats. Plenum prefilters have been and are used in all of the buildings that contain plutonium processing activities. These prefilters are used in large plenums that filter the room and glovebox air. Used prefilters were removed from their position in the ventilation system and packaged for further processing.

IDC 491 plenum prefilters range from furnace-type filters to pleated fiberglass filters and can be as large as 24" x 24" x 12". The filter medium consists of fiberglass packing or paper which may be more or less dense, depending on filtering needs. Wire mesh can be used to hold the media in place. The frame material for these prefilters is cardboard.

Item Description Code 490--HEPA Filters (24" x 24"), Not Acid Contaminated

The material in this IDC is HEPA filters used in the ventilation systems at the RFETS. HEPA filters are used in all of the buildings that contain plutonium processing activities. These HEPA filters are used in large filter plenums that filter the room and glovebox air.

Used filters were removed from their position in the ventilation system and packaged for further processing. The larger-sized filters used in filters plenums were identified and packaged as IDC 490 if not acid contaminated.

IDC 490 HEPA filters (24" x 24"), not acid contaminated, are large HEPA filters (nominal 24" x 24" x 5 or 24" x 12) that were used in filter plenum racks. These filters consist of filter media contained within a wooden or metal frame.

The filter medium is composed of glass fibers, with a small percentage percentage of asbestos. An organic binder, elastomeric adhesive, or polyurethane sealant was use during construction. The medium also contains corrugated aluminum foil. The newer HEPA media will consist of glass and aromatic polyamide fibers (Nomex) and aluminum alloy metal coated with a thermoset vinly or epoxy. Various sealants could be present. The material will not be homogenous because of the different materials used in the different sizes and by the different manufacturers of the filters. The material in IDC 490 has not been contaminated with acid.

The frame material will be either 3/4", fire-retareant, exterior-grade plywood or wood-particle board and 14-gauge cadmium-plated or chromized carbon steel. neoprene, closed-cell, expanded rubber, precoated with a rubber-based adhesive is present on each filter.

More information on HEPA filters can be obtained from RFETS Standard SMU-401 (EG&G 1991).

The IDC 490 HEPA filters in this backlog population consist of filters from Buildings 374, 771, 774, 776, and 777. The majority of these filtes do not contain hazardous consitutents, although evaporated solvents may have been contacted. HEPA filters from Plenums 104A and 104B in Building 374 have contacted hazardous constituents from the Saltcrete Process.

Current Container Comments N/A

EPA Comments N/A

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0336

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W101	**Handling**	CH	**Stream Name**	Combustibles/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1.59	0.96	2.39
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	17.72	2.39	59.67
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.55		
Packaging Material, Plastic	29.67		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.61E+00
Np-237	9.34E-07
Pu-238	1.21E+00
Pu-239	3.09E+01
Pu-240	7.05E+00
Pu-241	1.18E+02
Pu-242	8.20E-04
U-234	1.27E-04
U-235	4.11E-06
U-238	3.63E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0336

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 10 gallon	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	18.9	2.1	0.0	0.0	0.0	21.0
Slip Lid Can	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated	Stored	19.0	Projected	2.1	Total	21.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	19.4	0.0	0.0	0.0	0.0	21.5

Final Form	Stored	19.4	Projected	2.1	Total	21.5

TWBIR ID: RF-TT0336

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills.
Waste Stream Source Description	IDC 302 includes Benelex and Plexiglas. Benelex is a very dense organic material used for radiation shielding around gloveboxes and tanks. In some cases, Benelex is laminated with lead. However, none of the containers identified here have lead lamination. The Benelex used by RFETS is usually 2 inches thick, although occasionally two 2-inch thick pieces were bolted together to increase shield thickness. Plexiglas is a trade name used to describe a family of polycarbonate materials used for radiation shielding in glovebox windows and equipment enclosures. Plexiglas glovebox windows are generally 2- to 4-inches thick and can be in various sizes and shapes. Benelex and Plexiglas in the inventory were generated in Buildings 371, 707, 771, and 776. The IDC was generated as waste during replacement of shielding or stripout of unnecessary shielding during the installation of new gloveboxes or tanks. IDC 330 is dry combustibles such as cloth, paper, and wood. This IDC changes to 821, 831, 851, or 861 at the point of assay, depending upon radiological content IDC 336, wet combustibles, are materials such as, paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent an accumulation of free liquid. This IDC changes to 822, 832, 833, or 862 at the point of assay. IDC 337 is PVC sheeting, poly bottles, supplied-air suits, polyethylene, and other plastics. This IDC changes to 825, 833, 853, or 863 at the point of assay. IDC 487 is classified plastic shapes used in handling and shipping. If TRU, shapes must be declassified prior to shipment. If LLW, IDC must be authorized by NTS prior to shipment. Classified Waste drums must be stenciled and handled according to Safeguards and Security procedures. IDC 821 is dry combustibles such as paper, cloth, and wood. IDC 822 is wet combustibles such as paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent accumulation of free liquid. ICD 825 is PVC sheeting, poly bottles, supplied-air suits, and other plastic. IDC 831 is dry combustibles such as paper, cloth, and wood. IDC 832 is wet combustibles such as paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent accumulation of free liquid. IDC 833 is PVC sheeting, poly bottles, supplied-air suits, and other plastics.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A

TWBIR ID: RF-TT0336

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Comments N/A

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TWBIR ID: RF-TT0337

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W101	**Handling**	CH	**Stream Name**	Combustibles/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1.85	0.48	4.77
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	10.50	0.96	20.05
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	120.69	7.16	350.37
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	139.71		
Packaging Material, Plastic	29.83		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

116

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.55E+00
Np-237	5.97E-07
Pu-238	6.79E-01
Pu-239	1.93E+01
Pu-240	4.35E+00
Pu-241	5.92E+01
Pu-242	4.12E-04
U-234	2.76E-04
U-235	8.88E-06
U-238	7.86E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0337

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	39.5	2.7	0.0	0.0	0.0	42.2
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8

As-Generated	Stored	43.3	Projected	2.7	Total	46.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	39.6	0.0	0.0	0.0	0.0	42.3
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8

Final Form	Stored	43.4	Projected	2.7	Total	46.1

TWBIR ID: RF-TT0337

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills.
Waste Stream Source Description	IDC 302 includes Benelex and Plexiglas. Benelex is a very dense organic material used for radiation shielding around gloveboxes and tanks. In some cases, Benelex is laminated with lead. However, none of the containers identified here have lead lamination. The Benelex used by RFETS is usually 2 inches thick, although occasionally two 2-inch thick pieces were bolted together to increase shield thickness. Plexiglas is a trade name used to describe a family of polycarbonate materials used for radiation shielding in glovebox windows and equipment enclosures. Plexiglas glovebox windows are generally 2- to 4-inches thick and can be in various sizes and shapes. Benelex and Plexiglas in the inventory were generated in Buildings 371, 707, 771, and 776. The IDC was generated as waste during replacement of shielding or stripout of unnecessary shielding during the installation of new gloveboxes or tanks. IDC 330 is dry combustibles such as cloth, paper, and wood. This IDC changes to 821, 831, 851, or 861 at the point of assay, depending upon radiological content IDC 336, wet combustibles, are materials such as, paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent an accumulation of free liquid. This IDC changes to 822, 832, 833, or 862 at the point of assay. IDC 337 is PVC sheeting, poly bottles, supplied-air suits, polyethylene, and other plastics. This IDC changes to 825, 833, 853, or 863 at the point of assay. IDC 487 is classified plastic shapes used in handling and shipping. If TRU, shapes must be declassified prior to shipment. If LLW, IDC must be authorized by NTS prior to shipment. Classified Waste drums must be stenciled and handled according to Safeguards and Security procedures. IDC 821 is dry combustibles such as paper, cloth, and wood. IDC 822 is wet combustibles such as paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent accumulation of free liquid. ICD 825 is PVC sheeting, poly bottles, supplied-air suits, and other plastic. IDC 831 is dry combustibles such as paper, cloth, and wood. IDC 832 is wet combustibles such as paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent accumulation of free liquid. IDC 833 is PVC sheeting, poly bottles, supplied-air suits, and other plastics.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A

TWBIR ID: RF-TT0337

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Comments N/A

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TWBIR ID: RF-TT0338

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W120	**Handling**	CH	**Stream Name**	Filters & media/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	35.72	0.48	175.66
Aluminum-Base Metal/Alloys	13.67	0.48	40.10
Other Metal/Alloys	0.48	0.48	0.48
Other Inorganic Materials	16.43	0.24	234.85
Cellulosics	12.89	12.89	12.89
Rubber	9.07	0.48	16.71
Plastics	12.27	0.95	66.83
Solidified, Inorganic Matrix	0.48	0.48	0.48
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.55		
Packaging Material, Plastic	31.05		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.68E+00
Np-237	1.58E-05
Pu-238	7.89E-01
Pu-239	2.42E+01
Pu-240	5.44E+00
Pu-241	8.47E+01
Pu-242	5.09E-04
U-234	5.38E-05
U-235	3.42E-06
U-238	2.13E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0338

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8802 Can	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	117.1	16.8	0.0	0.0	0.0	134.0

As-Generated	Stored	117.1	Projected	16.8	Total	134.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	117.6	0.0	0.0	0.0	0.0	134.5

Final Form	Stored	117.6	Projected	16.9	Total	134.5

TWBIR ID: RF-TT0338

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description

This material consists of pieces ranging in size from 20" x 20" x 4" to 2" x 2" square pieces. These pieces are composed of glass fibers with a small percentage of asbestos. An organic binder, elastomeric adhesive, or polyurethane sealant was used during construction. The pieces also contain corrugated aluminum foil. The newer media consist of glass and aromatic polyamide fibers (Nomex) and luminum alloy metal coated wiht a thermoset vinyl or expoxy. Various sealants could be present. The material is not homogenous because of the different materials used and the different manufacturers of the filters. IDC 338 could also contain R-4 filters pads from the dicesium hexachloraplutonate (DCHP) process. The pads are about 12-inch diameter cloth filters.

Waste Stream Source Description

Item Description Code 338-Filter Media

The material in this IDC is either the filter media portion of HEPA filters or surface-water filter. HEPA filters are used on gloveboxes and in large filter plenums. Sock filters were used to prefilter operable unit 2 (OU-2) surface water prior to activated carbon treatment.

IDC 338 filter media in this backlog population was derived from HEPA filters from Buildings 371, 374, 559, 707, 771, 776, and from surface-water filters used in OU-2. The HEPA filters could have orginally been assigned IDCs 335, 342, 490, 491, or 492. Filter media from building 374 could have been generated from HEPA filters used in saltcrete processing; therefore, they could be contaminated with RCRA metals and F-listed solvens and sludges. Filter media from Building 771 could have been used to filter nitric acid vapors. Analytical data on the OU-2 surface waters indicates the sock filters are contaminated with F-Listed constitutents carbon tetrachloride, trichloroethylene, and tetrachloroethylene. Chloroform, 1,1,-dichloroethene, and vinyl chloride were also detected in the influent water analysis.

Item Description Code-331 Ful-Flo filters Not From Incinerator

These Ful-Flo filters are in-line cartridge filters used throughout Rocky Flats to remove particulates from fluid streams and typically filter down to 5,1, and 0.5 micron-sized particulates. Ful-Flo filters are used in various liquid systems that include nitric- and chloride-acid systems, such as those found in plutonium recovery operations; caustic systems, such as those found in utilities scrubbing; solvent systems using carbon tetrachloride in machining operations; water systems, such as steam cleaning; and condensate collection. These filters are also used in lubricant oil filtration.

Ful-Flo filters are poly-fiber-wound cartridges, about 10" long by 3.5" in diameter. Other fiber filters, such as R-6 pads, may be included in this IDC. R-6 pads are cloth filters, about sixteen inches in diameter, used to filter solids from nitric acid solutions. Therefore, backlog material in this IDC cannot be considered homogeneous. Filter elements are produced by combining a media blanket and spirally wound matrix yarn on an inner core. The filter elements might have a polypropylene cap on one end. Both the media blanket and matrix yarn can be cotton or polypropylene. The inner core material can be constructed of polypropylene, tinned steel, or stainless steel. Warehouse data from Rocky Flats indicate that the inner-core material is polypropylene.

During normal process operations, IDC 331 Ful-Flo filters in this backlog population were used to filter particulates from liquid waste streams in Buildings 371, 707, 771, 776, 777, and 779. These waste streams were primarily from filtration of caustic solutions in Building 371, the carbon tetrachloride system and oil systems, and from filtration of water and developer in Building 707. In Building 771, the primary waste streams filtered were anion column feed, potassium hydroxide, nitrate feed, spent nitric acid and hydrofluoric acid from the scrubber, eluate and effluent exiting the ion-exchange columns, floor pick-up solution, steam condensate, and miscellaneous aqueous solutions. Hydraulic oil and floor pick-up solution were filtered in Building 776. In Buildings 777 and 779, Ful-Flo filters were used in the carbon tetrachloride system for purification of Freon TF and for filtration of incoming waters.

Typically, Ful-Flo filters were placed on drying racks pending bag-out of a glovebox. Filters were not always dried before removal from the glovebox. Filters were then "bagged out'"of the glovebox and placed in a second layer of plastic. Next, the filters were placed in a "Poly Bottle" or "Clam Shell" (hard plastic container), then placed in a double-lined drum.

These Ful-Flo filters may be contaminated with acids, bases, carbon tetrachloride, chromium, Freon, and oil. They may contain relatively small amounts of free liquids.

Item Description Code 335-HEPA Glovebox Filters, Not Acid Contaminated

TWBIR ID: RF-TT0338

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

The material in this IDC is High Efficiency Particulate Air (HEPA) filters used in ventilation systems at Rocky Flats. HEPA filters have been and are used in all of the buildings which contain plutonium processing activities. HEPA filters are used on gloveboxes and in large filter plenums that filter the room air.

Used filters were removed from their position in the ventilation system and packaged for further processing. The filters used on gloveboxes (nominal 8" x 8" x 5") were identified as IDC 335 if they were not acid contaminated.

Item Description Code 342-HEPA Glovebox Filters, Acid Contaminated

HEPA filters are used on all gloveboxes to remove particulates from the atmosphere exiting the glovebox to the plenum exhaust system. The filters in IDC 342 are from gloveboxes with atmospheres that could cause the filters to be contaminated with acids or bases used in chemical processing.

Item Description Code 491-Plenum Prefilters

The material in this IDC is a variety of plenum prefilters used in the ventilation systems at Rocky Flats. Plenum prefilters have been and are used in all of the buildings that contain plutonium processing activities. These prefilters are used in large plenums that filter the room and glovebox air. Used prefilters were removed from their position in the ventilation system and packaged for further processing.

IDC 491 plenum prefilters range from furnace-type filters to pleated fiberglass filters and can be as large as 24" x 24" x 12". The filter medium consists of fiberglass packing or paper which may be more or less dense, depending on filtering needs. Wire mesh can be used to hold the media in place. The frame material for these prefilters is cardboard.

Item Description Code 490--HEPA Filters (24" x 24"), Not Acid Contaminated

The material in this IDC is HEPA filters used in the ventilation systems at the RFETS. HEPA filters are used in all of the buildings that contain plutonium processing activities. These HEPA filters are used in large filter plenums that filter the room and glovebox air.

Used filters were removed from their position in the ventilation system and packaged for further processing. The larger-sized filters used in filters plenums were identified and packaged as IDC 490 if not acid contaminated.

IDC 490 HEPA filters (24" x 24"), not acid contaminated, are large HEPA filters (nominal 24" x 24" x 5 or 24" x 12) that were used in filter plenum racks. These filters consist of filter media contained within a wooden or metal frame.

The filter medium is composed of glass fibers, with a small percentage percentage of asbestos. An organic binder, elastomeric adhesive, or polyurethane sealant was use during construction. The medium also contains corrugated aluminum foil. The newer HEPA media will consist of glass and aromatic polyamide fibers (Nomex) and aluminum alloy metal coated with a thermoset vinly or epoxy. Various sealants could be present. The material will not be homogenous because of the different materials used in the different sizes and by the different manufacturers of the filters. The material in IDC 490 has not been contaminated with acid.

The frame material will be either 3/4", fire-retareant, exterior-grade plywood or wood-particle board and 14-gauge cadmium-plated or chromized carbon steel. neoprene, closed-cell, expanded rubber, precoated with a rubber-based adhesive is present on each filter.

More information on HEPA filters can be obtained from RFETS Standard SMU-401 (EG&G 1991).

The IDC 490 HEPA filters in this backlog population consist of filters from Buildings 374, 771, 774, 776, and 777. The majority of these filtes do not contain hazardous consitutents, although evaporated solvents may have been contacted. HEPA filters from Plenums 104A and 104B in Building 374 have contacted hazardous constituents from the Saltcrete Process.

TWBIR ID: RF-TT0338

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0340

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W104	**Handling**	CH	**Stream Name**	Particulate Sludge/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3129

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	7.16	7.16	7.16
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	8.59	8.59	8.59
Solidified, Inorganic Matrix	10.50	10.50	10.50
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	503.12		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Recovery/Waste Repackaging/Decontamination and Decommissioni

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	3.17E-01
Pu-239	6.75E+00
Pu-240	1.55E+00
Pu-241	3.95E+01
Pu-242	1.96E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0340

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.4	0.0	0.0	0.0	0.0	0.4
POC / 55 gallon	6.9	0.0	0.0	0.0	0.0	6.9

As-Generated	Stored	7.3	Projected	0.0	Total	7.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
55 Gallon POCs	6.9	0.0	0.0	0.0	0.0	6.9

Final Form	Stored	7.3	Projected	0.0	Total	7.3

TWBIR ID: RF-TT0340

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste form consists of sludge from washing leaded gloves and metal in Size Reduction Process.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a mixed waste or residue, (i.e., RF-MRXXXX or RF-MTXXXX), but is being re-characterized as non-mixed waste.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0342

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-TT0342	**Handling**	CH	**Stream Name**	N/A			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	7.47	3.82	16.71
Aluminum-Base Metal/Alloys	12.86	0.48	176.62
Other Metal/Alloys	4.30	4.30	4.30
Other Inorganic Materials	7.58	0.96	84.49
Cellulosics	12.62	10.50	12.89
Rubber	9.61	0.48	27.69
Plastics	24.64	1.91	47.73
Solidified, Inorganic Matrix	1.67	0.48	2.86
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	8.59	8.59	8.59
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.46		
Packaging Material, Plastic	26.15		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N/A
PCBs:	N/A
Source:	N/A

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.20E+00
Np-237	2.05E-05
Pu-238	5.21E-01
Pu-239	1.31E+01
Pu-240	2.95E+00
Pu-241	5.25E+01
Pu-242	2.75E-04
U-234	1.40E-04
U-235	4.52E-06
U-238	2.77E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0342

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	17.7	2.1	0.0	0.0	0.0	19.8

As-Generated	Stored	17.7	Projected	2.1	Total	19.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	17.7	0.0	0.0	0.0	0.0	19.8

Final Form	Stored	17.7	Projected	2.1	Total	19.8

TWBIR ID: RF-TT0342

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	N/A
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a residue, (i.e., RF-TRXXXX), but is being revised to transuranic, (i.e., RF-TTXXXX).
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0360

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W114	**Handling**	CH	**Stream Name**	Mg Oxide Crucibles/TRU	**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5123

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	6.70	1.91	19.09
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	90.70	90.70	90.70
Other Inorganic Materials	113.57	1.91	654.91
Cellulosics	102.83	12.89	167.07
Rubber	0.00	0.00	0.00
Plastics	36.16	7.35	90.69
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	25.44		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Pyrochemistry Research.

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.33E+00
Np-237	5.49E-05
Pu-238	9.37E-01
Pu-239	2.08E+01
Pu-240	4.83E+00
Pu-241	1.10E+02
Pu-242	5.71E-04
U-234	1.01E-05
U-235	3.26E-07
U-238	2.89E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0360

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	0.6	Projected	0.0	Total	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	0.6	Projected	0.0	Total	0.6

TWBIR ID: RF-TT0360

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Aluminum oxide crucibles and irregularly shaped crucible pieces from pyrochemistry research. May include pyrochemical salts.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0368

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-TT0368	**Handling**	CH	**Stream Name**	Mg Oxide Crucibles/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5123

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	6.70	1.91	19.09
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	90.70	90.70	90.70
Other Inorganic Materials	113.57	1.91	654.91
Cellulosics	102.83	12.89	167.07
Rubber	0.00	0.00	0.00
Plastics	36.16	7.35	90.69
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	251.04		
Packaging Material, Plastic	25.44		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N/A
PCBs:	N/A
Source:	N/A

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.33E+00
Np-237	5.49E-05
Pu-238	9.37E-01
Pu-239	2.08E+01
Pu-240	4.83E+00
Pu-241	1.10E+02
Pu-242	5.71E-04
U-234	1.01E-05
U-235	3.26E-07
U-238	2.89E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0368

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8804 Can	0.0	0.0	0.0	0.0	0.0	0.0
Can / 6-Liter	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	3.5	0.0	0.0	0.0	0.0	3.5
POC / 55 gallon	8.1	0.0	0.0	0.0	0.0	8.1

As-Generated	Stored	11.7	Projected	0.0	Total	11.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	4.4	0.0	0.0	0.0	0.0	4.4
55 Gallon POCs	8.1	0.0	0.0	0.0	0.0	8.1

Final Form	Stored	12.5	Projected	0.0	Total	12.5

TWBIR ID: RF-TT0368

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Magnesium oxide crucibles and crucible pieces from pyrochemistry operations. Crucibles may be crushed to pass through a ¼ inch sieve. Pyrochemical salts may exist in varying amounts. This waste stream does not include LECO crucibles or crucible inserts.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a residue, (i.e., RF-TRXXXX), but is being revised to transuranic, (i.e., RF-TTXXXX).
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0370

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-TT0370	**Handling**	CH	**Stream Name**	N/A			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5123

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	19.78	1.96	128.88
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	51.08	51.08	51.08
Other Inorganic Materials	58.52	7.35	327.93
Cellulosics	153.05	12.89	167.07
Rubber	0.00	0.00	0.00
Plastics	7.50	1.62	18.76
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	360.42		
Packaging Material, Plastic	27.39		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N/A
PCBs:	N/A
Source:	N/A

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.82E+00
Np-237	2.72E-04
Pu-238	1.48E+00
Pu-239	3.40E+01
Pu-240	7.79E+00
Pu-241	1.71E+02
Pu-242	8.68E-04
U-234	4.59E-04
U-235	1.49E-05
U-238	1.32E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0370

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	2.7	0.0	0.0	0.0	0.0	2.7
POC / 55 gallon	14.4	0.0	0.0	0.0	0.0	14.4

As-Generated	Stored	Projected	Total
	17.1	0.0	17.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.7	0.0	0.0	0.0	0.0	2.7
55 Gallon POCs	14.4	0.0	0.0	0.0	0.0	14.4

Final Form	Stored	Projected	Total
	17.1	0.0	17.1

TWBIR ID: RF-TT0370

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"The crucibles are 1 inch by 1 inch to 4 inches by ¾ inch and have a composition of an aluminum silicate-based ceramic with about one-half percent chromium. The used crucibles contain fused plutonium metal or oxide, stainless steel, and an accelerator (copper, iron, tungsten, or tin)."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a residue, (i.e., RF-TRXXXX), but is being revised to transuranic, (i.e., RF-TTXXXX).
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0371

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W114	**Handling**	CH	**Stream Name**	Mg Oxide Crucibles/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5123

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.96	0.96	0.96
Aluminum-Base Metal/Alloys	1.91	1.91	1.91
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	236.28	83.06	382.83
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	50.76	9.55	123.15
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.48		
Packaging Material, Plastic	20.53		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

122

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.03E+01
Np-237	1.07E-04
Pu-238	2.45E+00
Pu-239	5.22E+01
Pu-240	1.20E+01
Pu-241	3.06E+02
Pu-242	1.51E-03
U-234	6.34E-05
U-235	2.05E-06
U-238	1.81E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0371

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RF-TT0371

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Firebrick consists of brick and chunks of high-density alumina ceramic material used to line the firebox of the incinerator.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0372

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W114	**Handling**	CH	**Stream Name**	Mg Oxide Crucibles/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5123

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	4.77	4.77	4.77
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	115.80	16.71	346.07
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	17.50	9.07	25.78
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.48		
Packaging Material, Plastic	29.60		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Materials Production

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.58E-01
Np-237	1.45E-06
Pu-238	2.42E-01
Pu-239	5.11E+00
Pu-240	1.17E+00
Pu-241	2.65E+01
Pu-242	1.33E-04
U-234	1.64E-04
U-235	5.29E-06
U-238	4.68E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0372

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	Projected	Total
	0.4	0.0	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	Projected	Total
	0.4	0.0	0.4

TWBIR ID: RF-TT0372

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Primarily iron metal or aluminum oxide shot or beads, but could include glass or ceramic beads, or walnut shells used for etching numbers in parts."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0374

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W107	**Handling**	CH	**Stream Name**	Soil & Cleanup Debris/TRU			**Inventory Date**	9/30/2002
Local ID	IDC 374	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	18.66	4.77	32.56
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	447.28	16.23	821.03
Cellulosics	12.89	12.89	12.89
Rubber	5.44	5.44	5.44
Plastics	18.14	3.68	38.19
Solidified, Inorganic Matrix	840.22	840.22	840.22
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	608.13	608.13	608.13
Soils	239.96	139.86	417.77
Packaging Material, Steel	138.52		
Packaging Material, Plastic	31.17		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

121

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.57E-01
Np-237	7.90E-06
Pu-238	2.08E-01
Pu-239	4.42E+00
Pu-240	1.01E+00
Pu-241	2.59E+01
Pu-242	1.28E-04
U-234	5.30E-06
U-235	9.46E-07
U-238	5.64E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0374

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	9.2	1.0	0.0	0.0	0.0	10.2

As-Generated	Stored	9.2	Projected	1.0	Total	10.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	9.2	0.0	0.0	0.0	0.0	10.2

Final Form	Stored	9.2	Projected	1.0	Total	10.2

TWBIR ID: RF-TT0374

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is construction rubble generated during decontamination and decommissioning activities. This waste consists of blacktop/concrete/dirt/sand. The waste is generated from construction/demolition within the plutonium process buildings. The waste is usually packed in 55-gal. drums with multiple bag liners, a fiberboard liner, and a rigid polyethylene liner. Also, the waste can be packaged in DOT 7A, Type A metal boxes which are lined with a fiberboard and PVC liner. This waste is identified by IDC 374. Inventory data include mixed residues in this IDC. IDC 374-Construction rubble generated during decontamination and decommissioning operations.
Waste Stream Source Description	Soil and cleanup-debris (IDC 374) were generated during cleanup and construction activities around Rocky Flats. In most cases, construction or demolition activities generated rubble consisting of blacktop, concrete, dirt, sand , and rock. The rubble was packaged in plywood boxes with a fiberboard liner and a polyvinyl chloride (PVC) bag liner or in 55-gallon, DOT Type 7A drups. The waste was generated on a nonroutine basis. Information describing spendid activities generating soil and debris were often unavailable.
Current Container Comments	N/A
EPA Comments	A-Process knowledge based upon general knowledge of waste type or source (e.g., there is some probability of a waste constituent being present or absent). Bounding analytical data have not been compiled in a form that is compatible with this report. This effort is in progress and the results will be incorporated when the effort is complete. No information available regarding uncertainty.
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0375A

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W105	**Handling**	CH	**Stream Name**	Solidified Process Solids/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3113

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	108.12	46.78	169.46
Cellulosics	0.96	0.96	0.96
Rubber	0.00	0.00	0.00
Plastics	23.87	23.87	23.87
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.43		
Packaging Material, Plastic	32.46		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Materials Production/Waste Repackaging

TRUCON Codes

122

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.56E-03
Pu-238	1.27E-02
Pu-239	2.71E-01
Pu-240	6.21E-02
Pu-241	1.59E+00
Pu-242	7.85E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0375A

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.4	1.2	0.0	0.0	0.0	1.7

As-Generated	Stored	Projected	Total
	0.4	1.2	1.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	1.7

Final Form	Stored	Projected	Total
	0.4	1.3	1.7

TWBIR ID: RF-TT0375A

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Oil-Dry used to absorb non-hazardous aqueous liquids.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0375B

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W105	**Handling**	CH	**Stream Name**	Solidified Process Solids/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3114

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	108.12	46.78	169.46
Cellulosics	0.96	0.96	0.96
Rubber	0.00	0.00	0.00
Plastics	23.87	23.87	23.87
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.43		
Packaging Material, Plastic	32.46		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Materials Production/Waste Repackaging

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.56E-03
Pu-238	1.27E-02
Pu-239	2.71E-01
Pu-240	6.21E-02
Pu-241	1.59E+00
Pu-242	7.85E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0375B

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.4	1.2	0.0	0.0	0.0	1.7

As-Generated	Stored	Projected	Total
	0.4	1.2	1.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	1.7

Final Form	Stored	Projected	Total
	0.4	1.3	1.7

TWBIR ID: RF-TT0375B

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Oil-Dry used to absorb non-hazardous organic liquids.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0376

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W121	**Handling**	CH	**Stream Name**	Cemented filters/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	2.52	0.48	11.93
Aluminum-Base Metal/Alloys	16.25	4.77	52.51
Other Metal/Alloys	172.56	19.09	326.02
Other Inorganic Materials	73.46	2.86	441.54
Cellulosics	12.68	9.55	12.89
Rubber	8.99	2.86	21.96
Plastics	13.79	2.86	22.91
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	10.26	4.77	15.75
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.44		
Packaging Material, Plastic	27.71		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.48E+00
Np-237	8.42E-06
Pu-238	5.03E-01
Pu-239	1.32E+01
Pu-240	3.08E+00
Pu-241	5.72E+01
Pu-242	2.98E-04
U-234	7.25E-05
U-235	2.34E-06
U-238	4.49E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0376

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	11.4	0.0	0.0	0.0	0.0	11.4

As-Generated	Stored	Projected	Total
	11.4	0.0	11.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	11.5	0.0	0.0	0.0	0.0	11.5

Final Form	Stored	Projected	Total
	11.5	0.0	11.5

TWBIR ID: RF-TT0376

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Processed filter media, IDC 376, is material which has been treated using Portland cement to absorb moisture and neutralize acid contamination. Filter waste is packaged in 55-gallon drums and metal standard waste boxes. Inventory data include residues within the same IDCs because they are regulated as waste.
Waste Stream Source Description	The material in this IDC is the filter media portion of acid-contaminated glovebox or plenum HEPA filters or Ful-Flo filters with free liquids. Processing was performed in the Site Reduction Vaults in Building 776. Used HEPA filters were processed to separate any portions containing high plutonium content from portions with low content. The wood frames were separated from the media and usually disposed of as waste by packing in a drum that was assigned IDC 330. The filter media pieces were identified as IDC 339 if they were high in radioactivity and packaged and stored for future recovery of the plutonium. If the pieces of media were low in radioactivity, they were identified as IDC 376 and packaged for shipment as waste. The media were placed in crates, Portland cement was added, then crates were sealed. Some IDC 376 material could be the remaining material after the IDC 338 media were processed to recover the plutonium. Ful-Flo filters which were used to filter corrosive gas were also processed to separate any portions containing high plutonium content from portions with low plutonium content. Pieces of media with low activity were identified as IDC 376 and packaged for shipment as waste. The media were placed in approximately 10-gallon plastic bags and Portland cement was added. The bags were then sealed and placed in a drum. IDC 376 filter media in this backlog population was derived from the processing of HEPA filters from Buildings 371, 771, 776, and 770. The HEPA filters could have orginally been assigned ICDs 335 342, 490, 491 or 492. Filter media from Building 771 could have been used to filter nitric acid vapors.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0377

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W114	**Handling**	CH	**Stream Name**	Mg Oxide Crucibles/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5123

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	25.22	2.86	95.47
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	110.43	2.39	512.66
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	19.64	2.86	41.53
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.51		
Packaging Material, Plastic	29.93		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

122

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.25E+00
Np-237	4.20E-05
Pu-238	8.11E-01
Pu-239	1.73E+01
Pu-240	3.96E+00
Pu-241	1.01E+02
Pu-242	5.00E-04
U-234	1.37E-04
U-235	4.35E-06
U-238	3.83E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0377

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	1.7	1.0	0.0	0.0	0.0	2.7

As-Generated	Stored	Projected	Total
	1.7	1.0	2.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.7	0.0	0.0	0.0	0.0	2.7

Final Form	Stored	Projected	Total
	1.7	1.0	2.7

TWBIR ID: RF-TT0377

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Firebrick, coarse consists of chunks of the unpulverized plutonium bearing surface layer of the high-density alumina ceramic material. Material is smaller than 1 inch in diameter and larger than 1/4 inch in diameter."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0391

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W116	**Handling**	CH	**Stream Name**	"Sand, Slag, and Crucible/TRU"			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5129

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	28.20	16.23	45.35
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	26.93	15.75	39.14
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Materials Production

TRUCON Codes

122

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.21E+00
Np-237	8.90E-06
Pu-238	1.06E+00
Pu-239	4.05E+01
Pu-240	9.14E+00
Pu-241	1.64E+02
Pu-242	6.57E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0391

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RF-TT0391

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Unpulverized magnesium oxide sand and crucible generated from the separation of sand and crucible residues from slag residues following plutonium metal button breakout in Building 771.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a residue, (i.e., RF-TRXXXX), but is being revised to transuranic, (i.e., RF-TTXXXX).
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0392

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W116	**Handling**	CH	**Stream Name**	"Sand, Slag, and Crucible/TRU"			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5129

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	26.82	5.73	57.28
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	25.48	4.30	45.83
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Materials Production

TRUCON Codes

122

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.44E+00
Pu-238	1.33E+00
Pu-239	4.24E+01
Pu-240	9.66E+00
Pu-241	1.13E+02
Pu-242	6.19E-04
U-234	7.91E-07
U-235	2.55E-08
U-238	2.26E-10

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0392

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RF-TT0392

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Unpulverized magnesium oxide sand, calcium fluoride slag, and magnesium oxide crucible generated during plutonium metal button breakout following plutonium tetrafluoride reduction in Building 771."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a residue, (i.e., RF-TRXXXX), but is being revised to transuranic, (i.e., RF-TTXXXX).
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0393

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W116	**Handling**	CH	**Stream Name**	"Sand, Slag, and Crucible/TRU"			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	235.33	235.33	235.33
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	33.41	33.41	33.41
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.57		
Packaging Material, Plastic	41.05		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Materials Recovery

TRUCON Codes

130

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.43E+00
Np-237	1.10E-03
Pu-238	1.75E+00
Pu-239	3.72E+01
Pu-240	8.53E+00
Pu-241	2.18E+02
Pu-242	1.08E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0393

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	11.0	0.0	0.0	0.0	0.0	11.0

As-Generated	Stored	11.0	Projected	0.0	Total	11.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	11.0	0.0	0.0	0.0	0.0	11.0

Final Form	Stored	11.0	Projected	0.0	Total	11.0

TWBIR ID: RF-TT0393

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Undissolved solids from dissolution of pulverized magnesium oxide sand, calcium fluoride slag, and magnesium oxide crucible (IDCs 396 and 398) in nitric acid. "
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a mixed waste or residue, (i.e., RF-MRXXXX or RF-MTXXXX), but is being re-characterized as non-mixed waste.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0398

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W116	**Handling**	CH	**Stream Name**	"Sand, Slag, and Crucible/TRU"			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5129

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	21.60	8.12	45.35
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	22.49	9.07	45.35
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	0.96	0.96	0.96
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Materials Recovery

TRUCON Codes

122

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.80E+00
Pu-238	1.22E+00
Pu-239	3.97E+01
Pu-240	8.98E+00
Pu-241	1.07E+02
Pu-242	5.44E-04
U-234	2.12E-07
U-235	6.82E-09
U-238	6.04E-11

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0398

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8801 Can	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RF-TT0398

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Pulverized sand, slag, and crucible generated from the crushing and grinding of magnesium oxide sand, calcium fluoride slag, and broken magnesium oxide reduction crucibles (IDC 392), in preparation for dissolution."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a residue, (i.e., RF-TRXXXX), but is being revised to transuranic, (i.e., RF-TTXXXX).
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0409

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-TT0409	**Handling**	CH	**Stream Name**	N/A			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Salt	**Waste Matrix Code**	S3141

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	11.20	3.34	35.80
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	6.51	5.73	11.46
Other Inorganic Materials	18.41	4.30	44.39
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	1.27	1.15	2.29
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N/A
PCBs:	N/A
Source:	N/A

TRUCON Codes

124

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.69E+00
Pu-238	1.14E+00
Pu-239	4.09E+01
Pu-240	9.26E+00
Pu-241	8.25E+01
Pu-242	7.25E-04
U-234	3.02E-06
U-235	9.75E-08
U-238	8.62E-10

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0409

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: RF-TT0409

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	N/A
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a residue, (i.e., RF-TRXXXX), but is being revised to transuranic, (i.e., RF-TTXXXX).
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0412

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-TT0412	**Handling**	CH	**Stream Name**	N/A			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Salt	**Waste Matrix Code**	S3141

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	11.20	3.34	35.80
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	6.51	5.73	11.46
Other Inorganic Materials	18.41	4.30	44.39
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	1.27	1.15	2.29
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N/A
PCBs:	N/A
Source:	N/A

TRUCON Codes

124

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.69E+00
Pu-238	1.14E+00
Pu-239	4.09E+01
Pu-240	9.26E+00
Pu-241	8.25E+01
Pu-242	7.25E-04
U-234	3.02E-06
U-235	9.75E-08
U-238	8.62E-10

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0412

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RF-TT0412

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	N/A
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a residue, (i.e., RF-TRXXXX), but is being revised to transuranic, (i.e., RF-TTXXXX).
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0414

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-TT0414	**Handling**	CH	**Stream Name**	N/A			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Salt	**Waste Matrix Code**	S3141

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	11.20	3.34	35.80
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	6.51	5.73	11.46
Other Inorganic Materials	18.41	4.30	44.39
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	1.27	1.15	2.29
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N/A
PCBs:	N/A
Source:	N/A

TRUCON Codes

124

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.69E+00
Pu-238	1.14E+00
Pu-239	4.09E+01
Pu-240	9.26E+00
Pu-241	8.25E+01
Pu-242	7.25E-04
U-234	3.02E-06
U-235	9.75E-08
U-238	8.62E-10

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0414

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	6.4	0.0	0.0	0.0	0.0	6.4

As-Generated	Stored	Projected	Total
	6.4	0.0	6.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	6.5	0.0	0.0	0.0	0.0	6.5

Final Form	Stored	Projected	Total
	6.5	0.0	6.5

TWBIR ID: RF-TT0414

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	N/A
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a residue, (i.e., RF-TRXXXX), but is being revised to transuranic, (i.e., RF-TTXXXX).
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0430

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W122	**Handling**	CH	**Stream Name**	Organic Resins/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5313

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	26.73	26.73	26.73
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	34.37	34.37	34.37
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.43		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

121

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	2.64E-02
Pu-239	5.63E-01
Pu-240	1.29E-01
Pu-241	3.30E+00
Pu-242	1.63E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0430

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: RF-TT0430

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	It consists of unleached resin (IDC 430).
Waste Stream Source Description	Organic residues were generated at RFETS by process treatments in Buildings 371 and 771 and encompass IDCs 430 and 431. The purification processes generated unleached resin, IDC 430. There are about eight drums of this IDC in storage. The approximate dates of generation for this IDC began on October 24, 1986. The IDC 431, leached resin, was also generated by the cation exchange and anion exchange processes in Buildings 371 and 771. There are about one hundred and thirty containers of IDC 431 material in storage. The approximate dates of generation for this IDC began on July 31, 1987. Additional information specific to the ion-exchange resins were important to the plutonium purfication processes at RFETS. Plutonium-contaminated materials were often dissolved in nitric acid and processed through ion exchange. The ion-exchange resin contained in an ion-exchange column was charged with highly concentrated nitric acids by trickling this solution through the columns. A plutonium-contaminated solution was then trickled through the column. The charged resin beads attracted the plutonium from the contaminated solution to the surface of the resin bead. The loaded resin beads were then leached by trickling another nitric acid solution through the tube. This final nitric solution drew the plutonium from the beads into solution and allowed for purification of the plutonium. The resin was periodically replaced when this process had depleted the efficiency of the resin. The ion exchange resins in use at Rocky Flats were generally small plastic (polystyrene) beads in which long-chain organic compounds with an activitated group are imbedded (such as Dowex 1 x 2). Item Description Code 430--Resin, Unleached Unleached resin, IDC 430, was produced when the resin in ion exchange columns was replaced. Though this IDC is titled "unleached" resin, the generators of resins confirm that all resins were rinsed with, at least, weak acid before the resins were removed from the columns. Item Description Code 431--Resin, Leached Leached resin, IDC 431, was produced when the resin in ion exchange columns were replaced. The resin leached (rinsed) with water before th eresin was removed from the columns. Item Description Code 809-Cemented Resins IDC 430 and 431 are cemented into waste forms IDC 809 due to being fine particulate nature. The solid waste form will be looked at to make sure it meets the WIPP WAC criteria.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0431

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W122	**Handling**	CH	**Stream Name**	Organic Resins/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5313

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	2.27	1.43	4.77
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	4.77	4.77	4.77
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	25.99	6.68	62.53
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	121.07	47.73	265.40
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.45		
Packaging Material, Plastic	25.89		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

121

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.17E-02
Np-237	7.78E-08
Pu-238	5.89E-02
Pu-239	1.26E+00
Pu-240	2.89E-01
Pu-241	7.14E+00
Pu-242	3.52E-05
U-234	9.72E-06
U-235	3.14E-07
U-238	2.78E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0431

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8804 Can	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	20.0	1.0	0.0	0.0	0.0	21.0
Drum / 85 gallon	0.3	0.0	0.0	0.0	0.0	0.3

As-Generated	Stored	Projected	Total
	20.3	1.0	21.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	20.6	0.0	0.0	0.0	0.0	21.7

Final Form	Stored	Projected	Total
	20.6	1.0	21.7

TWBIR ID: RF-TT0431

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	It consists of leached resin (IDC 431).
Waste Stream Source Description	Organic residues were generated at RFETS by process treatments in Buildings 371 and 771 and encompass IDCs 430 and 431. The purification processes generated unleached resin, IDC 430. There are about eight drums of this IDC in storage. The approximate dates of generation for this IDC began on October 24, 1986. The IDC 431, leached resin, was also generated by the cation exchange and anion exchange processes in Buildings 371 and 771. There are about one hundred and thirty containers of IDC 431 material in storage. The approximate dates of generation for this IDC began on July 31, 1987. Additional information specific to the ion-exchange resins were important to the plutonium purfication processes at RFETS. Plutonium-contaminated materials were often dissolved in nitric acid and processed through ion exchange. The ion-exchange resin contained in an ion-exchange column was charged with highly concentrated nitric acids by trickling this solution through the columns. A plutonium-contaminated solution was then trickled through the column. The charged resin beads attracted the plutonium from the contaminated solution to the surface of the resin bead. The loaded resin beads were then leached by trickling another nitric acid solution through the tube. This final nitric solution drew the plutonium from the beads into solution and allowed for purification of the plutonium. The resin was periodically replaced when this process had depleted the efficiency of the resin. The ion exchange resins in use at Rocky Flats were generally small plastic (polystyrene) beads in which long-chain organic compounds with an activitated group are imbedded (such as Dowex 1 x 2). Item Description Code 430--Resin, Unleached Unleached resin, IDC 430, was produced when the resin in ion exchange columns was replaced. Though this IDC is titled "unleached" resin, the generators of resins confirm that all resins were rinsed with, at least, weak acid before the resins were removed from the columns. Item Description Code 431--Resin, Leached Leached resin, IDC 431, was produced when the resin in ion exchange columns were replaced. The resin leached (rinsed) with water before th eresin was removed from the columns. Item Description Code 809-Cemented Resins IDC 430 and 431 are cemented into waste forms IDC 809 due to being fine particulate nature. The solid waste form will be looked at to make sure it meets the WIPP WAC criteria.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0438

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W115	**Handling**	CH	**Stream Name**	Insulation/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5129

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	29.75	0.48	148.93
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	40.01	0.96	189.03
Cellulosics	12.89	12.89	12.89
Rubber	2.01	2.01	2.01
Plastics	15.52	1.43	47.73
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	140.47		
Packaging Material, Plastic	27.48		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	Yes
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

122

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.55E+00
Np-237	3.99E-06
Pu-238	7.10E-01
Pu-239	2.04E+01
Pu-240	4.64E+00
Pu-241	6.69E+01
Pu-242	3.89E-04
U-234	2.10E-05
U-235	6.79E-07
U-238	6.01E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0438

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
1/2 Wood Box	1.6	0.0	0.0	0.0	0.0	1.6
8802 Can	0.0	0.0	0.0	0.0	0.0	0.0
8804 Can	0.0	0.0	0.0	0.0	0.0	0.0
Box / Misc.	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	56.0	2.9	0.0	0.0	0.0	58.9

As-Generated	Stored	57.6	Projected	2.9	Total	60.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	56.5	0.0	0.0	0.0	0.0	59.4
Standard Waste Box	9.4	0.0	0.0	0.0	0.0	9.4

Final Form	Stored	65.9	Projected	2.9	Total	68.9

TWBIR ID: RF-TT0438

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is contaminated insulation.
Waste Stream Source Description	Item Description Code 334 During normal operations, fire blankets become soiled, contaminated, or are not longer needed in an area. There is one backlog drum of IDC 334. This drum was generated in Buidling 771 from July 1991 to December 1991. Item Description Code 438 Maintenance, repair, and strip-out operations in Buildings 371, 374, 444, 559, 666, 707, 771, 774, 776, 777, 779, 865, 881, and 883 produced waste insulation. Insulation waste is generated by replacement of furnace heating elements, construction, maintenance, and demolition activities within the Protected Area at Rocky Flats. During these activities, insulation material is removed from furnaces, boilers, piping, ceilings and walls, and heating and cooling systems.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0440

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W113	**Handling**	CH	**Stream Name**	Glass/TRU	**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5122

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	12.14	0.48	280.68
Aluminum-Base Metal/Alloys	0.87	1.38	1.38
Other Metal/Alloys	0.45	0.72	0.72
Other Inorganic Materials	180.35	3.82	415.29
Cellulosics	9.60	4.31	12.89
Rubber	0.00	0.00	0.00
Plastics	20.72	5.73	89.74
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	148.49		
Packaging Material, Plastic	19.10		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

118

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.22E-01
Np-237	5.75E-06
Pu-238	6.93E-02
Pu-239	2.02E+00
Pu-240	4.73E-01
Pu-241	7.52E+00
Pu-242	4.36E-05
U-234	7.20E-05
U-235	2.36E-06
U-238	7.12E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0440

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8802 Can	0.0	0.0	0.0	0.0	0.0	0.0
8804 Can	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	27.5	2.1	0.0	0.0	0.0	29.5
POC / 55 gallon	0.6	0.0	0.0	0.0	0.0	0.6
Standard Waste Box	1.9	17.1	0.0	0.0	0.0	19.0

As-Generated — **Stored** 30.0 | **Projected** 19.2 | **Total** 49.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	29.0	0.0	0.0	0.0	0.0	31.1
55 Gallon POCs	0.6	0.0	0.0	0.0	0.0	0.6
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	18.9

Final Form — **Stored** 31.5 | **Projected** 19.1 | **Total** 50.6

TWBIR ID: RF-TT0440

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is made up of glass from analytical labs, recovery processes, ceramics, and glovebox windows.
Waste Stream Source Description	IDC 440 includes glass waste from analytical laboratories and recovery processes, standard light bulbs generated inside the PA, and ceramic materials. Glass waste assigned IDC 440 was generated in Buildings 123, 371, 444, 559, 707, 771, 776, 777, 889. IDC 441 includes unleached Raschig Rings to be dicarded. Raschig Rings are borosilicate glass rings used to maintain subcritical conditions in fissile solution storage tanks that are not safe by dimension. The boron in the rings is a neutron poison, an element that absorbs neutrons. The volume of the ring displaces a proportionate volume of solution and , in combination with the boron, creates a critically safe configuration. Over time, the rings can be become broken or otherwise damaged, especially in air-sparged tanks. In thoses cases, the rings were removed and replaced. The rings were also replaced if the assay of the tank exceeded acceptable limits. The old rings were assayed, and if the material count was above the economic discard limit (EDL), the rings were leached (rinsed with water or acid) and stored for plutonium recovery. If the material count was below EDL, the rings were packaged for discard without leaching. The unleached rings were assigned IDC 441. Raschig Rings assigned IDC 441 were generated in Buildings 371 and 771. Rings generated in Building 371 were gernerated by the Process Vent Scrubber System in Rooms 1105 and 2319. The system removed nitric- and sulfuric-acid vapors and entrained liquids from the process vent header streams connected to the Building 371 tanks. The acids were neutralized with potassium hydroxide and water. Vent scrubbers D229 A and B were filled with Raschig Rings. Rings generated in Building 771 were generated in production processes in tanks used to temporarily store radioactive solutions. The solutions could have contained nitric or sulfuric acids, or potassium hydroxide. Raschig Rings currently in WEMS assigned IDC 442 were generated in Buildings 771, 776, and 777. Prior to being replaced, the tanks were drained and the rings were leached with dilute nitric acid or water. The rings generated in Building 771 are from the production processes and Tanks D80-D85, D0-360, D-361, D-451-D-454, D-467, D-750, D-706, D-922, D-973, D-974, D-980, D-1008, D-1013, D-1022, and D-1081. Rings generated in Building 776 are from the Size Reduction Process and Tanks SR 3,4, and 5 and as unused rings.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0441

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W113	**Handling**	CH	**Stream Name**	Glass			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5122

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	247.74	2.39	623.88
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	370.89	370.89	370.89
Other Inorganic Materials	480.51	4.77	726.99
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	15.45	5.73	35.32
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.56		
Packaging Material, Plastic	36.75		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

118

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.87E-01
Np-237	2.25E-06
Pu-238	1.61E-01
Pu-239	3.46E+00
Pu-240	7.93E-01
Pu-241	1.98E+01
Pu-242	9.83E-05
U-234	3.19E-05
U-235	1.05E-06
U-238	2.50E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0441

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	138.9	2.7	0.0	0.0	0.0	141.6

As-Generated	Stored	Projected	Total
	138.9	2.7	141.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	139.2	0.0	0.0	0.0	0.0	142.0

Final Form	Stored	Projected	Total
	139.2	2.7	142.0

TWBIR ID: RF-TT0441

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is made up of Raschig Rings which are borosilicate glass rings used to maintain subcritical conditions in fissile solution storage tanks.
Waste Stream Source Description	IDC 440 includes glass waste from analytical laboratories and recovery processes, standard light bulbs generated inside the PA, and ceramic materials. Glass waste assigned IDC 440 was generated in Buildings 123, 371, 444, 559, 707, 771, 776, 777, 889. IDC 441 includes unleached Raschig Rings to be dicarded. Raschig Rings are borosilicate glass rings used to maintain subcritical conditions in fissile solution storage tanks that are not safe by dimension. The boron in the rings is a neutron poison, an element that absorbs neutrons. The volume of the ring displaces a proportionate volume of solution and , in combination with the boron, creates a critically safe configuration. Over time, the rings can be become broken or otherwise damaged, especially in air-sparged tanks. In thoses cases, the rings were removed and replaced. The rings were also replaced if the assay of the tank exceeded acceptable limits. The old rings were assayed, and if the material count was above the economic discard limit (EDL), the rings were leached (rinsed with water or acid) and stored for plutonium recovery. If the material count was below EDL, the rings were packaged for discard without leaching. The unleached rings were assigned IDC 441. Raschig Rings assigned IDC 441 were generated in Buildings 371 and 771. Rings generated in Building 371 were gernerated by the Process Vent Scrubber System in Rooms 1105 and 2319. The system removed nitric- and sulfuric-acid vapors and entrained liquids from the process vent header streams connected to the Building 371 tanks. The acids were neutralized with potassium hydroxide and water. Vent scrubbers D229 A and B were filled with Raschig Rings. Rings generated in Building 771 were generated in production processes in tanks used to temporarily store radioactive solutions. The solutions could have contained nitric or sulfuric acids, or potassium hydroxide. Raschig Rings currently in WEMS assigned IDC 442 were generated in Buildings 771, 776, and 777. Prior to being replaced, the tanks were drained and the rings were leached with dilute nitric acid or water. The rings generated in Building 771 are from the production processes and Tanks D80-D85, D0-360, D-361, D-451-D-454, D-467, D-750, D-706, D-922, D-973, D-974, D-980, D-1008, D-1013, D-1022, and D-1081. Rings generated in Building 776 are from the Size Reduction Process and Tanks SR 3,4, and 5 and as unused rings.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0442

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W113	**Handling**	CH	**Stream Name**	Glass/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5122

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	4.54	0.48	9.55
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	306.14	42.96	493.09
Cellulosics	12.84	10.50	13.37
Rubber	0.00	0.00	0.00
Plastics	21.90	5.25	50.60
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	153.52		
Packaging Material, Plastic	25.97		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

118

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.38E-01
Np-237	9.86E-07
Pu-238	8.27E-02
Pu-239	1.91E+00
Pu-240	4.36E-01
Pu-241	7.68E+00
Pu-242	3.95E-05
U-234	1.14E-04
U-235	3.52E-06
U-238	3.87E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0442

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8804 Can	0.0	0.0	0.0	0.0	0.0	0.0
Box / Metal	6.3	0.0	0.0	0.0	0.0	6.3
Drum / 55 gallon	37.9	2.1	0.0	0.0	0.0	39.9
POC / 55 gallon	1.7	0.0	0.0	0.0	0.0	1.7

As-Generated	Stored	45.9	Projected	2.1	Total	48.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	38.8	0.0	0.0	0.0	0.0	40.9
55 Gallon POCs	1.7	0.0	0.0	0.0	0.0	1.7
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8

Final Form	Stored	44.2	Projected	2.1	Total	46.3

TWBIR ID: RF-TT0442

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is made up of Raschig Rings which are borosilicate glass rings used to maintain subcritical conditions in fissile solution storage tanks.
Waste Stream Source Description	IDC 440 includes glass waste from analytical laboratories and recovery processes, standard light bulbs generated inside the PA, and ceramic materials. Glass waste assigned IDC 440 was generated in Buildings 123, 371, 444, 559, 707, 771, 776, 777, 889. IDC 441 includes unleached Raschig Rings to be dicarded. Raschig Rings are borosilicate glass rings used to maintain subcritical conditions in fissile solution storage tanks that are not safe by dimension. The boron in the rings is a neutron poison, an element that absorbs neutrons. The volume of the ring displaces a proportionate volume of solution and , in combination with the boron, creates a critically safe configuration. Over time, the rings can be become broken or otherwise damaged, especially in air-sparged tanks. In thoses cases, the rings were removed and replaced. The rings were also replaced if the assay of the tank exceeded acceptable limits. The old rings were assayed, and if the material count was above the economic discard limit (EDL), the rings were leached (rinsed with water or acid) and stored for plutonium recovery. If the material count was below EDL, the rings were packaged for discard without leaching. The unleached rings were assigned IDC 441. Raschig Rings assigned IDC 441 were generated in Buildings 371 and 771. Rings generated in Building 371 were gernerated by the Process Vent Scrubber System in Rooms 1105 and 2319. The system removed nitric- and sulfuric-acid vapors and entrained liquids from the process vent header streams connected to the Building 371 tanks. The acids were neutralized with potassium hydroxide and water. Vent scrubbers D229 A and B were filled with Raschig Rings. Rings generated in Building 771 were generated in production processes in tanks used to temporarily store radioactive solutions. The solutions could have contained nitric or sulfuric acids, or potassium hydroxide. Raschig Rings currently in WEMS assigned IDC 442 were generated in Buildings 771, 776, and 777. Prior to being replaced, the tanks were drained and the rings were leached with dilute nitric acid or water. The rings generated in Building 771 are from the production processes and Tanks D80-D85, D0-360, D-361, D-451-D-454, D-467, D-750, D-706, D-922, D-973, D-974, D-980, D-1008, D-1013, D-1022, and D-1081. Rings generated in Building 776 are from the Size Reduction Process and Tanks SR 3,4, and 5 and as unused rings.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0443

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W113	**Handling**	CH	**Stream Name**	Glass/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5122

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	337.60	0.96	542.74
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	19.65	7.16	33.41
Solidified, Inorganic Matrix	0.96	0.96	0.96
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.44		
Packaging Material, Plastic	24.56		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Materials Production/Decontamination and Decommissioning

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.93E-02
Np-237	1.10E-07
Pu-238	5.86E-02
Pu-239	1.28E+00
Pu-240	2.92E-01
Pu-241	6.89E+00
Pu-242	3.44E-05
U-234	8.16E-06
U-235	3.34E-07
U-238	7.68E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0443

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.2	0.8	0.0	0.0	0.0	1.0

As-Generated	Stored	0.2	Projected	0.8	Total	1.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	1.0

Final Form	Stored	0.2	Projected	0.8	Total	1.0

TWBIR ID: RF-TT0443

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Rachig rings leached with dilute nitric acid or water, and rinsed with carbon tetrachloride or 1,1,1-trichloroethane prior to removal from process tanks. These rings have no visible solvent contamination."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0479

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W109	**Handling**	CH	**Stream Name**	METAL/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5111

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	85.09	53.94	102.63
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	6.52	2.39	8.59
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.57		
Packaging Material, Plastic	28.64		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	1.15E+00
Pu-239	2.44E+01
Pu-240	5.59E+00
Pu-241	1.43E+02
Pu-242	7.07E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0479

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	1.0	0.0	0.0	0.0	0.0	1.0

As-Generated	Stored	1.0	Projected	0.0	Total	1.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0

Final Form	Stored	1.0	Projected	0.0	Total	1.0

TWBIR ID: RF-TT0479

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Empty stainless steel transfer cans.
Waste Stream Source Description	IDC 479 is assigned to empty reusable cans generated in Building 559, 707, and 771 (containers currently in WEMS from these buildings). Stainless-steel cans were used to handle plutonium-contaminated material. Primary generation was through the use of these cans to manually transfer materials between gloveboxes. Cans that were introduced to the process were typically recycled and reused. There were no generation process descriptions in WSRIC for this waste in Buildings 559, 707, and 771. In Building 371, the Dicesium Hexachloroplutonate (DCHP) Process often used the cans for transferring materials into the stacker. IDC 480 is assigned to line- and nonline-generated light metals generated in Building 371, 374, 444, 559, 707, 774, 776, 777, 779, 865, and 991 (containers currently in WEMS from these buildings). Light metals include aluminum, copper, iron, brass, bronze, galvanized metal, stainless steel, carbon steel, and other metal alloys contained in waste mechanical and electrical parts, tools, containers, scrap metals, piping, wire, cable, gauges, valves, foil, planchets, and a variety of other metal items. The maintenance operation was inextricably linked with the generation of the material that created this IDC. The maintenance operation was inextricably linked with the generation of the material that created this IDC. The maintenance-generated materials were generated throughout the entire facility. Backlog containers of this IDC may contain a matrix of all light metals listed above. IDC 481 was assigned to light, nonspecial source metals. This material consisted primarily of stainless-steel and aluminum equipment used throughout the plant; this equipment was rinsed to remove plutonium contamination. This IDC is no longer active and has been replaced by IDC 480. The three containers in inventory were generated in Buildings 771, 776, and 777 in November 1984. IDC 484 was assigned to classified non-nuclear material scrap metal shapes made primarily of stainless steel and aluminum. Prior to 1987, IDC 484 included beryllium shapes. These items were generated in Buildings 777 and 779 during disassembly operations of site-return units. Buildings 444, 707, and 883 generated rejected parts. Containers in inventory were generated from February 1983 to May 1991. IDC 485 was assigned to scrap D-38 classified metal shapes. Generation of this material occurred in Building 777 during disassembly of site-return units. Building 444 generated rejected parts. Containers in inventory were generated from July 1987 to August 1992. IDC 486 was assigned to classified tooling for disposal. Generation of these tools occurred in Buildings 707 and 777. The material consists primarily of obsolete tooling including pot chucks and inspection gauges. Containers in inventory were generated from October 1982 to December 1992. IDC 489 was assigned to scrap D-38 classified metal shapes generated in Buildings 777 and 779 during disassembly of site-return units. containers in inventory were generated from February 1986 to September 1990. IDC 824 is assigned to transuranic light metals generated in Buildings 371, 559, 707, and 771 (containers currently in WEMS from these buildings). Light metals include aluminum, copper, iron, brass, bronze, galvanized metal, stainless steel, carbon steel, and other metal alloys contained in waste mechanical and electrical parts, tools, containers, scrap metals, piping, wire, cable, gauges, valves, foil, planchets, and a variety of other metal items.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A

TWBIR ID: RF-TT0479

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Acceptance Comments	N/A
Final Form Comments	N/A

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TWBIR ID: RF-TT0480

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W109	**Handling**	CH	**Stream Name**	METAL/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5111

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	244.02	10.50	1279.27
Aluminum-Base Metal/Alloys	44.09	0.68	521.26
Other Metal/Alloys	41.90	1.81	444.40
Other Inorganic Materials	8.14	0.14	87.45
Cellulosics	7.41	4.31	12.89
Rubber	2.92	0.33	7.86
Plastics	12.37	1.63	76.85
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.03	0.04	0.04
Soils	0.00	0.00	0.00
Packaging Material, Steel	147.52		
Packaging Material, Plastic	13.35		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.31E-01
Cs-137	6.22E-05
Np-237	1.36E-06
Pu-238	1.31E-01
Pu-239	2.81E+00
Pu-240	6.43E-01
Pu-241	1.50E+01
Pu-242	7.50E-05
U-234	2.07E-05
U-235	6.70E-07
U-238	3.31E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0480

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8802 Can	0.1	0.0	0.0	0.0	0.0	0.1
Box / Metal	3.2	0.0	0.0	0.0	0.0	3.2
Box / Misc.	3.2	0.0	0.0	0.0	0.0	3.2
Drum / 55 gallon	36.2	41.6	0.0	0.0	0.0	77.8
Drum / 85 gallon	2.6	0.0	0.0	0.0	0.0	2.6
Standard Waste Box	60.8	83.6	0.0	0.0	0.0	144.4

As-Generated	Stored	Projected	Total
	106.0	125.2	231.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	42.5	0.0	0.0	0.0	0.0	84.2
Standard Waste Box	64.3	0.0	0.0	0.0	0.0	147.4

Final Form	Stored	Projected	Total
	106.8	124.8	231.6

TWBIR ID: RF-TT0480

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste includes items such as gloveboxes and machinery, and empty containers. Items that are difficult to reduce to a size that would fit in a 55-gal. drum are placed in DOT 7A, Type A metal boxes. These drums are lined with a rigid polyethylene liner, fiberboard liner and several bag liners. The boxes are lined with a fiberboard and PVC liner.
Waste Stream Source Description	IDC 479 is assigned to empty reusable cans generated in Building 559, 707, and 771 (containers currently in WEMS from these buildings). Stainless-steel cans were used to handle plutonium-contaminated material. Primary generation was through the use of these cans to manually transfer materials between gloveboxes. Cans that were introduced to the process were typically recycled and reused. There were no generation process descriptions in WSRIC for this waste in Buildings 559, 707, and 771. In Building 371, the Dicesium Hexachloroplutonate (DCHP) Process often used the cans for transferring materials into the stacker. IDC 480 is assigned to line- and nonline-generated light metals generated in Building 371, 374, 444, 559, 707, 774, 776, 777, 779, 865, and 991 (containers currently in WEMS from these buildings). Light metals include aluminum, copper, iron, brass, bronze, galvanized metal, stainless steel, carbon steel, and other metal alloys contained in waste mechanical and electrical parts, tools, containers, scrap metals, piping, wire, cable, gauges, valves, foil, planchets, and a variety of other metal items. The maintenance operation was inextricably linked with the generation of the material that created this IDC. The maintenance operation was inextricably linked with the generation of the material that created this IDC. The maintenance-generated materials were generated throughout the entire facility. Backlog containers of this IDC may contain a matrix of all light metals listed above. IDC 481 was assigned to light, nonspecial source metals. This material consisted primarily of stainless-steel and aluminum equipment used throughout the plant; this equipment was rinsed to remove plutonium contamination. This IDC is no longer active and has been replaced by IDC 480. The three containers in inventory were generated in Buildings 771, 776, and 777 in November 1984. IDC 484 was assigned to classified non-nuclear material scrap metal shapes made primarily of stainless steel and aluminum. Prior to 1987, IDC 484 included beryllium shapes. These items were generated in Buildings 777 and 779 during disassembly operations of site-return units. Buildings 444, 707, and 883 generated rejected parts. Containers in inventory were generated from February 1983 to May 1991. IDC 485 was assigned to scrap D-38 classified metal shapes. Generation of this material occurred in Building 777 during disassembly of site-return units. Building 444 generated rejected parts. Containers in inventory were generated from July 1987 to August 1992. IDC 486 was assigned to classified tooling for disposal. Generation of these tools occurred in Buildings 707 and 777. The material consists primarily of obsolete tooling including pot chucks and inspection gauges. Containers in inventory were generated from October 1982 to December 1992. IDC 489 was assigned to scrap D-38 classified metal shapes generated in Buildings 777 and 779 during disassembly of site-return units. containers in inventory were generated from February 1986 to September 1990. IDC 824 is assigned to transuranic light metals generated in Buildings 371, 559, 707, and 771 (containers currently in WEMS from these buildings). Light metals include aluminum, copper, iron, brass, bronze, galvanized metal, stainless steel, carbon steel, and other metal alloys contained in waste mechanical and electrical parts, tools, containers, scrap metals, piping, wire, cable, gauges, valves, foil, planchets, and a variety of other metal items.
Current Container Comments	N/A
EPA Comments	N/A

TWBIR ID: RF-TT0480

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

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TWBIR ID: RF-TT0481

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W109	**Handling**	CH	**Stream Name**	METAL/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5111

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	289.03	10.50	1279.27
Aluminum-Base Metal/Alloys	107.52	2.86	521.26
Other Metal/Alloys	54.96	1.81	444.40
Other Inorganic Materials	10.28	0.33	87.45
Cellulosics	12.85	10.74	12.89
Rubber	2.10	0.48	3.82
Plastics	20.00	2.34	76.85
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.43		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.31E-01
Cs-137	6.22E-05
Np-237	1.36E-06
Pu-238	1.31E-01
Pu-239	2.81E+00
Pu-240	6.43E-01
Pu-241	1.50E+01
Pu-242	7.50E-05
U-234	2.07E-05
U-235	6.70E-07
U-238	3.31E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0481

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RF-TT0481

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Light Metal, IDC480, was rinsed to remove plutonium contamination and assigned IDC481.
Waste Stream Source Description	IDC 479 is assigned to empty reusable cans generated in Building 559, 707, and 771 (containers currently in WEMS from these buildings). Stainless-steel cans were used to handle plutonium-contaminated material. Primary generation was through the use of these cans to manually transfer materials between gloveboxes. Cans that were introduced to the process were typically recycled and reused. There were no generation process descriptions in WSRIC for this waste in Buildings 559, 707, and 771. In Building 371, the Dicesium Hexachloroplutonate (DCHP) Process often used the cans for transferring materials into the stacker. IDC 480 is assigned to line- and nonline-generated light metals generated in Building 371, 374, 444, 559, 707, 774, 776, 777, 779, 865, and 991 (containers currently in WEMS from these buildings). Light metals include aluminum, copper, iron, brass, bronze, galvanized metal, stainless steel, carbon steel, and other metal alloys contained in waste mechanical and electrical parts, tools, containers, scrap metals, piping, wire, cable, gauges, valves, foil, planchets, and a variety of other metal items. The maintenance operation was inextricably linked with the generation of the material that created this IDC. The maintenance operation was inextricably linked with the generation of the material that created this IDC. The maintenance-generated materials were generated throughout the entire facility. Backlog containers of this IDC may contain a matrix of all light metals listed above. IDC 481 was assigned to light, nonspecial source metals. This material consisted primarily of stainless-steel and aluminum equipment used throughout the plant; this equipment was rinsed to remove plutonium contamination. This IDC is no longer active and has been replaced by IDC 480. The three containers in inventory were generated in Buildings 771, 776, and 777 in November 1984. IDC 484 was assigned to classified non-nuclear material scrap metal shapes made primarily of stainless steel and aluminum. Prior to 1987, IDC 484 included beryllium shapes. These items were generated in Buildings 777 and 779 during disassembly operations of site-return units. Buildings 444, 707, and 883 generated rejected parts. Containers in inventory were generated from February 1983 to May 1991. IDC 485 was assigned to scrap D-38 classified metal shapes. Generation of this material occurred in Building 777 during disassembly of site-return units. Building 444 generated rejected parts. Containers in inventory were generated from July 1987 to August 1992. IDC 486 was assigned to classified tooling for disposal. Generation of these tools occurred in Buildings 707 and 777. The material consists primarily of obsolete tooling including pot chucks and inspection gauges. Containers in inventory were generated from October 1982 to December 1992. IDC 489 was assigned to scrap D-38 classified metal shapes generated in Buildings 777 and 779 during disassembly of site-return units. containers in inventory were generated from February 1986 to September 1990. IDC 824 is assigned to transuranic light metals generated in Buildings 371, 559, 707, and 771 (containers currently in WEMS from these buildings). Light metals include aluminum, copper, iron, brass, bronze, galvanized metal, stainless steel, carbon steel, and other metal alloys contained in waste mechanical and electrical parts, tools, containers, scrap metals, piping, wire, cable, gauges, valves, foil, planchets, and a variety of other metal items.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A

TWBIR ID: RF-TT0481

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Acceptance Comments	N/A
Final Form Comments	N/A

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TWBIR ID: RF-TT0483

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W109	**Handling**	CH	**Stream Name**	Metal/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5111

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	4.77	4.77	4.77
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	430.08	327.93	532.24
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	17.18	17.18	17.18
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.43		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	1.76E-01
Pu-239	3.76E+00
Pu-240	8.61E-01
Pu-241	2.20E+01
Pu-242	1.09E-04
U-234	2.06E-02
U-235	1.26E-03
U-238	1.54E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0483

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.8	0.0	0.0	0.0	0.0	0.8

As-Generated	Stored	Projected	Total
	0.8	0.0	0.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8

Final Form	Stored	Projected	Total
	0.8	0.0	0.8

TWBIR ID: RF-TT0483

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Depleted uranium stock material removed from plutonium buildings during decontamination and decommissioning activities.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0484

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W109	**Handling**	CH	**Stream Name**	METAL/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5111

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	8.59	8.59	8.59
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	121.29	57.76	252.99
Other Inorganic Materials	38.82	14.32	87.83
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	10.36	5.25	14.32
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.57		
Packaging Material, Plastic	20.74		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.74E-02
Np-237	1.23E-06
Pu-238	6.23E-02
Pu-239	1.33E+00
Pu-240	3.04E-01
Pu-241	7.78E+00
Pu-242	3.84E-05
U-234	1.14E-05
U-235	8.69E-07
U-238	5.42E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0484

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	9.8	0.0	0.0	0.0	0.0	9.8

As-Generated	Stored	9.8	Projected	0.0	Total	9.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	9.8	0.0	0.0	0.0	0.0	9.8

Final Form	Stored	9.8	Projected	0.0	Total	9.8

TWBIR ID: RF-TT0484

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Classified non-nuclear material non-metal shapes.
Waste Stream Source Description	IDC 479 is assigned to empty reusable cans generated in Building 559, 707, and 771 (containers currently in WEMS from these buildings). Stainless-steel cans were used to handle plutonium-contaminated material. Primary generation was through the use of these cans to manually transfer materials between gloveboxes. Cans that were introduced to the process were typically recycled and reused. There were no generation process descriptions in WSRIC for this waste in Buildings 559, 707, and 771. In Building 371, the Dicesium Hexachloroplutonate (DCHP) Process often used the cans for transferring materials into the stacker. IDC 480 is assigned to line- and nonline-generated light metals generated in Building 371, 374, 444, 559, 707, 774, 776, 777, 779, 865, and 991 (containers currently in WEMS from these buildings). Light metals include aluminum, copper, iron, brass, bronze, galvanized metal, stainless steel, carbon steel, and other metal alloys contained in waste mechanical and electrical parts, tools, containers, scrap metals, piping, wire, cable, gauges, valves, foil, planchets, and a variety of other metal items. The maintenance operation was inextricably linked with the generation of the material that created this IDC. The maintenance operation was inextricably linked with the generation of the material that created this IDC. The maintenance-generated materials were generated throughout the entire facility. Backlog containers of this IDC may contain a matrix of all light metals listed above. IDC 481 was assigned to light, nonspecial source metals. This material consisted primarily of stainless-steel and aluminum equipment used throughout the plant; this equipment was rinsed to remove plutonium contamination. This IDC is no longer active and has been replaced by IDC 480. The three containers in inventory were generated in Buildings 771, 776, and 777 in November 1984. IDC 484 was assigned to classified non-nuclear material scrap metal shapes made primarily of stainless steel and aluminum. Prior to 1987, IDC 484 included beryllium shapes. These items were generated in Buildings 777 and 779 during disassembly operations of site-return units. Buildings 444, 707, and 883 generated rejected parts. Containers in inventory were generated from February 1983 to May 1991. IDC 485 was assigned to scrap D-38 classified metal shapes. Generation of this material occurred in Building 777 during disassembly of site-return units. Building 444 generated rejected parts. Containers in inventory were generated from July 1987 to August 1992. IDC 486 was assigned to classified tooling for disposal. Generation of these tools occurred in Buildings 707 and 777. The material consists primarily of obsolete tooling including pot chucks and inspection gauges. Containers in inventory were generated from October 1982 to December 1992. IDC 489 was assigned to scrap D-38 classified metal shapes generated in Buildings 777 and 779 during disassembly of site-return units. containers in inventory were generated from February 1986 to September 1990. IDC 824 is assigned to transuranic light metals generated in Buildings 371, 559, 707, and 771 (containers currently in WEMS from these buildings). Light metals include aluminum, copper, iron, brass, bronze, galvanized metal, stainless steel, carbon steel, and other metal alloys contained in waste mechanical and electrical parts, tools, containers, scrap metals, piping, wire, cable, gauges, valves, foil, planchets, and a variety of other metal items.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A

TWBIR ID: RF-TT0484

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Acceptance Comments	N/A
Final Form Comments	N/A

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TWBIR ID: RF-TT0485

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W109	**Handling**	CH	**Stream Name**	METAL/TRU	**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5111

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	35.32	35.32	35.32
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	0.96	0.96	0.96
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.57		
Packaging Material, Plastic	32.46		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.15E-02
Pu-238	6.95E-03
Pu-239	1.48E-01
Pu-240	3.39E-02
Pu-241	8.67E-01
Pu-242	4.29E-06
U-234	5.13E-05
U-235	5.94E-06
U-238	4.59E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0485

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	5.4	0.0	0.0	0.0	0.0	5.4

As-Generated	Stored	5.4	Projected	0.0	Total	5.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	5.4	0.0	0.0	0.0	0.0	5.4

Final Form	Stored	5.4	Projected	0.0	Total	5.4

TWBIR ID: RF-TT0485

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Scrap D-38 classified metal shapes.
Waste Stream Source Description	IDC 479 is assigned to empty reusable cans generated in Building 559, 707, and 771 (containers currently in WEMS from these buildings). Stainless-steel cans were used to handle plutonium-contaminated material. Primary generation was through the use of these cans to manually transfer materials between gloveboxes. Cans that were introduced to the process were typically recycled and reused. There were no generation process descriptions in WSRIC for this waste in Buildings 559, 707, and 771. In Building 371, the Dicesium Hexachloroplutonate (DCHP) Process often used the cans for transferring materials into the stacker. IDC 480 is assigned to line- and nonline-generated light metals generated in Building 371, 374, 444, 559, 707, 774, 776, 777, 779, 865, and 991 (containers currently in WEMS from these buildings). Light metals include aluminum, copper, iron, brass, bronze, galvanized metal, stainless steel, carbon steel, and other metal alloys contained in waste mechanical and electrical parts, tools, containers, scrap metals, piping, wire, cable, gauges, valves, foil, planchets, and a variety of other metal items. The maintenance operation was inextricably linked with the generation of the material that created this IDC. The maintenance operation was inextricably linked with the generation of the material that created this IDC. The maintenance-generated materials were generated throughout the entire facility. Backlog containers of this IDC may contain a matrix of all light metals listed above. IDC 481 was assigned to light, nonspecial source metals. This material consisted primarily of stainless-steel and aluminum equipment used throughout the plant; this equipment was rinsed to remove plutonium contamination. This IDC is no longer active and has been replaced by IDC 480. The three containers in inventory were generated in Buildings 771, 776, and 777 in November 1984. IDC 484 was assigned to classified non-nuclear material scrap metal shapes made primarily of stainless steel and aluminum. Prior to 1987, IDC 484 included beryllium shapes. These items were generated in Buildings 777 and 779 during disassembly operations of site-return units. Buildings 444, 707, and 883 generated rejected parts. Containers in inventory were generated from February 1983 to May 1991. IDC 485 was assigned to scrap D-38 classified metal shapes. Generation of this material occurred in Building 777 during disassembly of site-return units. Building 444 generated rejected parts. Containers in inventory were generated from July 1987 to August 1992. IDC 486 was assigned to classified tooling for disposal. Generation of these tools occurred in Buildings 707 and 777. The material consists primarily of obsolete tooling including pot chucks and inspection gauges. Containers in inventory were generated from October 1982 to December 1992. IDC 489 was assigned to scrap D-38 classified metal shapes generated in Buildings 777 and 779 during disassembly of site-return units. containers in inventory were generated from February 1986 to September 1990. IDC 824 is assigned to transuranic light metals generated in Buildings 371, 559, 707, and 771 (containers currently in WEMS from these buildings). Light metals include aluminum, copper, iron, brass, bronze, galvanized metal, stainless steel, carbon steel, and other metal alloys contained in waste mechanical and electrical parts, tools, containers, scrap metals, piping, wire, cable, gauges, valves, foil, planchets, and a variety of other metal items.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A

TWBIR ID: RF-TT0485

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Acceptance Comments	N/A
Final Form Comments	N/A

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TWBIR ID: RF-TT0486

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W109	**Handling**	CH	**Stream Name**	METAL/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5111

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	368.19	262.06	474.95
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	16.23	12.89	23.39
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.57		
Packaging Material, Plastic	15.43		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.77E-02
Np-237	2.14E-07
Pu-238	1.55E-02
Pu-239	3.31E-01
Pu-240	7.58E-02
Pu-241	1.94E+00
Pu-242	9.58E-06
U-234	1.58E-05
U-235	1.83E-06
U-238	1.42E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0486

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	14.4	0.0	0.0	0.0	0.0	14.4

As-Generated	Stored	14.4	Projected	0.0	Total	14.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	14.4	0.0	0.0	0.0	0.0	14.4

Final Form	Stored	14.4	Projected	0.0	Total	14.4

TWBIR ID: RF-TT0486

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Classified tooling.
Waste Stream Source Description	IDC 479 is assigned to empty reusable cans generated in Building 559, 707, and 771 (containers currently in WEMS from these buildings). Stainless-steel cans were used to handle plutonium-contaminated material. Primary generation was through the use of these cans to manually transfer materials between gloveboxes. Cans that were introduced to the process were typically recycled and reused. There were no generation process descriptions in WSRIC for this waste in Buildings 559, 707, and 771. In Building 371, the Dicesium Hexachloroplutonate (DCHP) Process often used the cans for transferring materials into the stacker. IDC 480 is assigned to line- and nonline-generated light metals generated in Building 371, 374, 444, 559, 707, 774, 776, 777, 779, 865, and 991 (containers currently in WEMS from these buildings). Light metals include aluminum, copper, iron, brass, bronze, galvanized metal, stainless steel, carbon steel, and other metal alloys contained in waste mechanical and electrical parts, tools, containers, scrap metals, piping, wire, cable, gauges, valves, foil, planchets, and a variety of other metal items. The maintenance operation was inextricably linked with the generation of the material that created this IDC. The maintenance operation was inextricably linked with the generation of the material that created this IDC. The maintenance-generated materials were generated throughout the entire facility. Backlog containers of this IDC may contain a matrix of all light metals listed above. IDC 481 was assigned to light, nonspecial source metals. This material consisted primarily of stainless-steel and aluminum equipment used throughout the plant; this equipment was rinsed to remove plutonium contamination. This IDC is no longer active and has been replaced by IDC 480. The three containers in inventory were generated in Buildings 771, 776, and 777 in November 1984. IDC 484 was assigned to classified non-nuclear material scrap metal shapes made primarily of stainless steel and aluminum. Prior to 1987, IDC 484 included beryllium shapes. These items were generated in Buildings 777 and 779 during disassembly operations of site-return units. Buildings 444, 707, and 883 generated rejected parts. Containers in inventory were generated from February 1983 to May 1991. IDC 485 was assigned to scrap D-38 classified metal shapes. Generation of this material occurred in Building 777 during disassembly of site-return units. Building 444 generated rejected parts. Containers in inventory were generated from July 1987 to August 1992. IDC 486 was assigned to classified tooling for disposal. Generation of these tools occurred in Buildings 707 and 777. The material consists primarily of obsolete tooling including pot chucks and inspection gauges. Containers in inventory were generated from October 1982 to December 1992. IDC 489 was assigned to scrap D-38 classified metal shapes generated in Buildings 777 and 779 during disassembly of site-return units. containers in inventory were generated from February 1986 to September 1990. IDC 824 is assigned to transuranic light metals generated in Buildings 371, 559, 707, and 771 (containers currently in WEMS from these buildings). Light metals include aluminum, copper, iron, brass, bronze, galvanized metal, stainless steel, carbon steel, and other metal alloys contained in waste mechanical and electrical parts, tools, containers, scrap metals, piping, wire, cable, gauges, valves, foil, planchets, and a variety of other metal items.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A

TWBIR ID: RF-TT0486

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Acceptance Comments	N/A
Final Form Comments	N/A

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TWBIR ID: RF-TT0487

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W101	**Handling**	CH	**Stream Name**	Combustibles/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1.85	0.48	4.77
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	10.50	0.96	20.05
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	120.69	7.16	350.37
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.56		
Packaging Material, Plastic	32.30		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.83E+00
Np-237	1.18E-05
Pu-238	2.69E-01
Pu-239	6.07E+00
Pu-240	1.38E+00
Pu-241	3.17E+01
Pu-242	1.69E-04
U-234	1.72E-04
U-235	5.59E-06
U-238	5.48E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0487

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.6	1.0	0.0	0.0	0.0	1.7

As-Generated	Stored	Projected	Total
	0.6	1.0	1.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	1.7

Final Form	Stored	Projected	Total
	0.6	1.0	1.7

TWBIR ID: RF-TT0487

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Classified plastic shapes.
Waste Stream Source Description	IDC 302 includes Benelex and Plexiglas. Benelex is a very dense organic material used for radiation shielding around gloveboxes and tanks. In some cases, Benelex is laminated with lead. However, none of the containers identified here have lead lamination. The Benelex used by RFETS is usually 2 inches thick, although occasionally two 2-inch thick pieces were bolted together to increase shield thickness. Plexiglas is a trade name used to describe a family of polycarbonate materials used for radiation shielding in glovebox windows and equipment enclosures. Plexiglas glovebox windows are generally 2- to 4-inches thick and can be in various sizes and shapes. Benelex and Plexiglas in the inventory were generated in Buildings 371, 707, 771, and 776. The IDC was generated as waste during replacement of shielding or stripout of unnecessary shielding during the installation of new gloveboxes or tanks. IDC 330 is dry combustibles such as cloth, paper, and wood. This IDC changes to 821, 831, 851, or 861 at the point of assay, depending upon radiological content IDC 336, wet combustibles, are materials such as, paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent an accumulation of free liquid. This IDC changes to 822, 832, 833, or 862 at the point of assay. IDC 337 is PVC sheeting, poly bottles, supplied-air suits, polyethylene, and other plastics. This IDC changes to 825, 833, 853, or 863 at the point of assay. IDC 487 is classified plastic shapes used in handling and shipping. If TRU, shapes must be declassified prior to shipment. If LLW, IDC must be authorized by NTS prior to shipment. Classified Waste drums must be stenciled and handled according to Safeguards and Security procedures. IDC 821 is dry combustibles such as paper, cloth, and wood. IDC 822 is wet combustibles such as paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent accumulation of free liquid. ICD 825 is PVC sheeting, poly bottles, supplied-air suits, and other plastic. IDC 831 is dry combustibles such as paper, cloth, and wood. IDC 832 is wet combustibles such as paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent accumulation of free liquid. IDC 833 is PVC sheeting, poly bottles, supplied-air suits, and other plastics.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A

TWBIR ID: RF-TT0487

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Comments N/A

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TWBIR ID: RF-TT0489

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W109	**Handling**	CH	**Stream Name**	METAL/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5111

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	211.46	152.75	298.34
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	10.31	6.68	12.89
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.57		
Packaging Material, Plastic	17.18		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.50E-02
Np-237	8.19E-07
Pu-238	3.64E-02
Pu-239	7.75E-01
Pu-240	1.77E-01
Pu-241	4.54E+00
Pu-242	2.24E-05
U-234	1.07E-05
U-235	1.24E-06
U-238	9.61E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0489

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	9.4	0.0	0.0	0.0	0.0	9.4

As-Generated	Stored	9.4	Projected	0.0	Total	9.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	9.4	0.0	0.0	0.0	0.0	9.4

Final Form	Stored	9.4	Projected	0.0	Total	9.4

TWBIR ID: RF-TT0489

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Classified beryllium shapes.
Waste Stream Source Description	IDC 479 is assigned to empty reusable cans generated in Building 559, 707, and 771 (containers currently in WEMS from these buildings). Stainless-steel cans were used to handle plutonium-contaminated material. Primary generation was through the use of these cans to manually transfer materials between gloveboxes. Cans that were introduced to the process were typically recycled and reused. There were no generation process descriptions in WSRIC for this waste in Buildings 559, 707, and 771. In Building 371, the Dicesium Hexachloroplutonate (DCHP) Process often used the cans for transferring materials into the stacker. IDC 480 is assigned to line- and nonline-generated light metals generated in Building 371, 374, 444, 559, 707, 774, 776, 777, 779, 865, and 991 (containers currently in WEMS from these buildings). Light metals include aluminum, copper, iron, brass, bronze, galvanized metal, stainless steel, carbon steel, and other metal alloys contained in waste mechanical and electrical parts, tools, containers, scrap metals, piping, wire, cable, gauges, valves, foil, planchets, and a variety of other metal items. The maintenance operation was inextricably linked with the generation of the material that created this IDC. The maintenance operation was inextricably linked with the generation of the material that created this IDC. The maintenance-generated materials were generated throughout the entire facility. Backlog containers of this IDC may contain a matrix of all light metals listed above. IDC 481 was assigned to light, nonspecial source metals. This material consisted primarily of stainless-steel and aluminum equipment used throughout the plant; this equipment was rinsed to remove plutonium contamination. This IDC is no longer active and has been replaced by IDC 480. The three containers in inventory were generated in Buildings 771, 776, and 777 in November 1984. IDC 484 was assigned to classified non-nuclear material scrap metal shapes made primarily of stainless steel and aluminum. Prior to 1987, IDC 484 included beryllium shapes. These items were generated in Buildings 777 and 779 during disassembly operations of site-return units. Buildings 444, 707, and 883 generated rejected parts. Containers in inventory were generated from February 1983 to May 1991. IDC 485 was assigned to scrap D-38 classified metal shapes. Generation of this material occurred in Building 777 during disassembly of site-return units. Building 444 generated rejected parts. Containers in inventory were generated from July 1987 to August 1992. IDC 486 was assigned to classified tooling for disposal. Generation of these tools occurred in Buildings 707 and 777. The material consists primarily of obsolete tooling including pot chucks and inspection gauges. Containers in inventory were generated from October 1982 to December 1992. IDC 489 was assigned to scrap D-38 classified metal shapes generated in Buildings 777 and 779 during disassembly of site-return units. containers in inventory were generated from February 1986 to September 1990. IDC 824 is assigned to transuranic light metals generated in Buildings 371, 559, 707, and 771 (containers currently in WEMS from these buildings). Light metals include aluminum, copper, iron, brass, bronze, galvanized metal, stainless steel, carbon steel, and other metal alloys contained in waste mechanical and electrical parts, tools, containers, scrap metals, piping, wire, cable, gauges, valves, foil, planchets, and a variety of other metal items.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Acceptance Comments	N/A
Final Form Comments	N/A

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TWBIR ID: RF-TT0490

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W120	**Handling**	CH	**Stream Name**	Filters & media/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	8.09	0.48	12.77
Aluminum-Base Metal/Alloys	18.33	4.77	49.17
Other Metal/Alloys	10.86	11.24	11.24
Other Inorganic Materials	11.80	1.62	139.38
Cellulosics	4.55	4.31	12.89
Rubber	12.94	0.77	49.17
Plastics	6.81	2.68	25.78
Solidified, Inorganic Matrix	3.85	3.84	4.30
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	42.54	44.06	44.06
Packaging Material, Steel	152.24		
Packaging Material, Plastic	3.35		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.41E-01
Np-237	1.53E-06
Pu-238	7.17E-02
Pu-239	1.55E+00
Pu-240	3.55E-01
Pu-241	8.48E+00
Pu-242	4.23E-05
U-234	5.94E-06
U-235	3.96E-07
U-238	3.50E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0490

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / Metal	3.2	0.0	0.0	0.0	0.0	3.2
Box / Wood	34.9	0.0	0.0	0.0	0.0	34.9
Drum / 55 gallon	7.3	0.0	0.0	0.0	0.0	7.3
Standard Waste Box	83.6	81.7	0.0	0.0	0.0	165.3

As-Generated	Stored	128.9	Projected	81.7	Total	210.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	7.3	0.0	0.0	0.0	0.0	7.3
Standard Waste Box	122.8	0.0	0.0	0.0	0.0	204.1

Final Form	Stored	130.1	Projected	81.3	Total	211.4

TWBIR ID: RF-TT0490

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Plenum HEPA filters.

Waste Stream Source Description Item Description Code 338-Filter Media

The material in this IDC is either the filter media portion of HEPA filters or surface-water filter. HEPA filters are used on gloveboxes and in large filter plenums. Sock filters were used to prefilter operable unit 2 (OU-2) surface water prior to activated carbon treatment.

IDC 338 filter media in this backlog population was derived from HEPA filters from Buildings 371, 374, 559, 707, 771, 776, and from surface-water filters used in OU-2. The HEPA filters could have orginally been assigned IDCs 335, 342, 490, 491, or 492. Filter media from building 374 could have been generated from HEPA filters used in saltcrete processing; therefore, they could be contaminated with RCRA metals and F-listed solvens and sludges. Filter media from Building 771 could have been used to filter nitric acid vapors. Analytical data on the OU-2 surface waters indicates the sock filters are contaminated with F-Listed constitutents carbon tetrachloride, trichloroethylene, and tetrachloroethylene. Chloroform, 1,1,-dichloroethene, and vinyl chloride were also detected in the influent water analysis.

Item Description Code-331 Ful-Flo filters Not From Incinerator

These Ful-Flo filters are in-line cartridge filters used throughout Rocky Flats to remove particulates from fluid streams and typically filter down to 5,1, and 0.5 micron-sized particulates. Ful-Flo filters are used in various liquid systems that include nitric- and chloride-acid systems, such as those found in plutonium recovery operations; caustic systems, such as those found in utilities scrubbing; solvent systems using carbon tetrachloride in machining operations; water systems, such as steam cleaning; and condensate collection. These filters are also used in lubricant oil filtration.

Ful-Flo filters are poly-fiber-wound cartridges, about 10" long by 3.5" in diameter. Other fiber filters, such as R-6 pads, may be included in this IDC. R-6 pads are cloth filters, about sixteen inches in diameter, used to filter solids from nitric acid solutions. Therefore, backlog material in this IDC cannot be considered homogeneous. Filter elements are produced by combining a media blanket and spirally wound matrix yarn on an inner core. The filter elements might have a polypropylene cap on one end. Both the media blanket and matrix yarn can be cotton or polypropylene. The inner core material can be constructed of polypropylene, tinned steel, or stainless steel. Warehouse data from Rocky Flats indicate that the inner-core material is polypropylene.

During normal process operations, IDC 331 Ful-Flo filters in this backlog population were used to filter particulates from liquid waste streams in Buildings 371, 707, 771, 776, 777, and 779. These waste streams were primarily from filtration of caustic solutions in Building 371, the carbon tetrachloride system and oil systems, and from filtration of water and developer in Building 707. In Building 771, the primary waste streams filtered were anion column feed, potassium hydroxide, nitrate feed, spent nitric acid and hydrofluoric acid from the scrubber, eluate and effluent exiting the ion-exchange columns, floor pick-up solution, steam condensate, and miscellaneous aqueous solutions. Hydraulic oil and floor pick-up solution were filtered in Building 776. In Buildings 777 and 779, Ful-Flo filters were used in the carbon tetrachloride system for purification of Freon TF and for filtration of incoming waters.

Typically, Ful-Flo filters were placed on drying racks pending bag-out of a glovebox. Filters were not always dried before removal from the glovebox. Filters were then "bagged out'"of the glovebox and placed in a second layer of plastic. Next, the filters were placed in a "Poly Bottle" or "Clam Shell" (hard plastic container), then placed in a double-lined drum.

These Ful-Flo filters may be contaminated with acids, bases, carbon tetrachloride, chromium, Freon, and oil. They may contain relatively small amounts of free liquids.

Item Description Code 335-HEPA Glovebox Filters, Not Acid Contaminated

The material in this IDC is High Efficiency Particulate Air (HEPA) filters used in ventilation systems at Rocky Flats. HEPA filters have been and are used in all of the buildings which contain plutonium processing activities. HEPA filters are used on gloveboxes and in large filter plenums that filter the room air.

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Used filters were removed from their position in the ventilation system and packaged for further processing. The filters used on gloveboxes (nominal 8" x 8" x 5") were identified as IDC 335 if they were not acid contaminated.

Item Description Code 342-HEPA Glovebox Filters, Acid Contaminated

HEPA filters are used on all gloveboxes to remove particulates from the atmosphere exiting the glovebox to the plenum exhaust system. The filters in IDC 342 are from gloveboxes with atmospheres that could cause the filters to be contaminated with acids or bases used in chemical processing.

Item Description Code 491-Plenum Prefilters

The material in this IDC is a variety of plenum prefilters used in the ventilation systems at Rocky Flats. Plenum prefilters have been and are used in all of the buildings that contain plutonium processing activities. These prefilters are used in large plenums that filter the room and glovebox air. Used prefilters were removed from their position in the ventilation system and packaged for further processing.

IDC 491 plenum prefilters range from furnace-type filters to pleated fiberglass filters and can be as large as 24" x 24" x 12". The filter medium consists of fiberglass packing or paper which may be more or less dense, depending on filtering needs. Wire mesh can be used to hold the media in place. The frame material for these prefilters is cardboard.

Item Description Code 490--HEPA Filters (24" x 24"), Not Acid Contaminated

The material in this IDC is HEPA filters used in the ventilation systems at the RFETS. HEPA filters are used in all of the buildings that contain plutonium processing activities. These HEPA filters are used in large filter plenums that filter the room and glovebox air.

Used filters were removed from their position in the ventilation system and packaged for further processing. The larger-sized filters used in filters plenums were identified and packaged as IDC 490 if not acid contaminated.

IDC 490 HEPA filters (24" x 24"), not acid contaminated, are large HEPA filters (nominal 24" x 24" x 5 or 24" x 12) that were used in filter plenum racks. These filters consist of filter media contained within a wooden or metal frame.

The filter medium is composed of glass fibers, with a small percentage percentage of asbestos. An organic binder, elastomeric adhesive, or polyurethane sealant was use during construction. The medium also contains corrugated aluminum foil. The newer HEPA media will consist of glass and aromatic polyamide fibers (Nomex) and aluminum alloy metal coated with a thermoset vinly or epoxy. Various sealants could be present. The material will not be homogenous because of the different materials used in the different sizes and by the different manufacturers of the filters. The material in IDC 490 has not been contaminated with acid.

The frame material will be either 3/4", fire-retareant, exterior-grade plywood or wood-particle board and 14-gauge cadmium-plated or chromized carbon steel. neoprene, closed-cell, expanded rubber, precoated with a rubber-based adhesive is present on each filter.

More information on HEPA filters can be obtained from RFETS Standard SMU-401 (EG&G 1991).

The IDC 490 HEPA filters in this backlog population consist of filters from Buildings 374, 771, 774, 776, and 777. The majority of these filtes do not contain hazardous consitutents, although evaporated solvents may have been contacted. HEPA filters from Plenums 104A and 104B in Building 374 have contacted hazardous constituents from the Saltcrete Process.

Current Container Comments N/A

EPA Comments N/A

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0491

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W120	**Handling**	CH	**Stream Name**	Filters & media/TRU	**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	9.55	9.55	9.55
Aluminum-Base Metal/Alloys	13.46	4.77	25.78
Other Metal/Alloys	3.34	3.34	3.34
Other Inorganic Materials	16.57	2.86	46.30
Cellulosics	12.89	12.89	12.89
Rubber	0.96	0.48	1.43
Plastics	20.80	10.98	34.37
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	142.50		
Packaging Material, Plastic	18.18		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.13E-02
Np-237	5.04E-07
Pu-238	9.89E-03
Pu-239	2.12E-01
Pu-240	4.85E-02
Pu-241	1.20E+00
Pu-242	5.98E-06
U-234	3.22E-06
U-235	2.73E-07
U-238	9.18E-10

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0491

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / Misc.	6.3	0.0	0.0	0.0	0.0	6.3
Box / Wood	6.3	0.0	0.0	0.0	0.0	6.3
Drum / 55 gallon	15.8	2.9	0.0	0.0	0.0	18.7

As-Generated	Stored	28.5	Projected	2.9	Total	31.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	15.8	0.0	0.0	0.0	0.0	18.8
Standard Waste Box	7.6	0.0	0.0	0.0	0.0	7.6

Final Form	Stored	23.4	Projected	2.9	Total	26.3

TWBIR ID: RF-TT0491

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Plenum prefilters.

Waste Stream Source Description Item Description Code 338-Filter Media

The material in this IDC is either the filter media portion of HEPA filters or surface-water filter. HEPA filters are used on gloveboxes and in large filter plenums. Sock filters were used to prefilter operable unit 2 (OU-2) surface water prior to activated carbon treatment.

IDC 338 filter media in this backlog population was derived from HEPA filters from Buildings 371, 374, 559, 707, 771, 776, and from surface-water filters used in OU-2. The HEPA filters could have orginally been assigned IDCs 335, 342, 490, 491, or 492. Filter media from building 374 could have been generated from HEPA filters used in saltcrete processing; therefore, they could be contaminated with RCRA metals and F-listed solvens and sludges. Filter media from Building 771 could have been used to filter nitric acid vapors. Analytical data on the OU-2 surface waters indicates the sock filters are contaminated with F-Listed constitutents carbon tetrachloride, trichloroethylene, and tetrachloroethylene. Chloroform, 1,1,-dichloroethene, and vinyl chloride were also detected in the influent water analysis.

Item Description Code-331 Ful-Flo filters Not From Incinerator

These Ful-Flo filters are in-line cartridge filters used throughout Rocky Flats to remove particulates from fluid streams and typically filter down to 5,1, and 0.5 micron-sized particulates. Ful-Flo filters are used in various liquid systems that include nitric- and chloride-acid systems, such as those found in plutonium recovery operations; caustic systems, such as those found in utilities scrubbing; solvent systems using carbon tetrachloride in machining operations; water systems, such as steam cleaning; and condensate collection. These filters are also used in lubricant oil filtration.

Ful-Flo filters are poly-fiber-wound cartridges, about 10" long by 3.5" in diameter. Other fiber filters, such as R-6 pads, may be included in this IDC. R-6 pads are cloth filters, about sixteen inches in diameter, used to filter solids from nitric acid solutions. Therefore, backlog material in this IDC cannot be considered homogeneous. Filter elements are produced by combining a media blanket and spirally wound matrix yarn on an inner core. The filter elements might have a polypropylene cap on one end. Both the media blanket and matrix yarn can be cotton or polypropylene. The inner core material can be constructed of polypropylene, tinned steel, or stainless steel. Warehouse data from Rocky Flats indicate that the inner-core material is polypropylene.

During normal process operations, IDC 331 Ful-Flo filters in this backlog population were used to filter particulates from liquid waste streams in Buildings 371, 707, 771, 776, 777, and 779. These waste streams were primarily from filtration of caustic solutions in Building 371, the carbon tetrachloride system and oil systems, and from filtration of water and developer in Building 707. In Building 771, the primary waste streams filtered were anion column feed, potassium hydroxide, nitrate feed, spent nitric acid and hydrofluoric acid from the scrubber, eluate and effluent exiting the ion-exchange columns, floor pick-up solution, steam condensate, and miscellaneous aqueous solutions. Hydraulic oil and floor pick-up solution were filtered in Building 776. In Buildings 777 and 779, Ful-Flo filters were used in the carbon tetrachloride system for purification of Freon TF and for filtration of incoming waters.

Typically, Ful-Flo filters were placed on drying racks pending bag-out of a glovebox. Filters were not always dried before removal from the glovebox. Filters were then "bagged out'"of the glovebox and placed in a second layer of plastic. Next, the filters were placed in a "Poly Bottle" or "Clam Shell" (hard plastic container), then placed in a double-lined drum.

These Ful-Flo filters may be contaminated with acids, bases, carbon tetrachloride, chromium, Freon, and oil. They may contain relatively small amounts of free liquids.

Item Description Code 335-HEPA Glovebox Filters, Not Acid Contaminated

The material in this IDC is High Efficiency Particulate Air (HEPA) filters used in ventilation systems at Rocky Flats. HEPA filters have been and are used in all of the buildings which contain plutonium processing activities. HEPA filters are used on gloveboxes and in large filter plenums that filter the room air.

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Used filters were removed from their position in the ventilation system and packaged for further processing. The filters used on gloveboxes (nominal 8" x 8" x 5") were identified as IDC 335 if they were not acid contaminated.

Item Description Code 342-HEPA Glovebox Filters, Acid Contaminated

HEPA filters are used on all gloveboxes to remove particulates from the atmosphere exiting the glovebox to the plenum exhaust system. The filters in IDC 342 are from gloveboxes with atmospheres that could cause the filters to be contaminated with acids or bases used in chemical processing.

Item Description Code 491-Plenum Prefilters

The material in this IDC is a variety of plenum prefilters used in the ventilation systems at Rocky Flats. Plenum prefilters have been and are used in all of the buildings that contain plutonium processing activities. These prefilters are used in large plenums that filter the room and glovebox air. Used prefilters were removed from their position in the ventilation system and packaged for further processing.

IDC 491 plenum prefilters range from furnace-type filters to pleated fiberglass filters and can be as large as 24" x 24" x 12". The filter medium consists of fiberglass packing or paper which may be more or less dense, depending on filtering needs. Wire mesh can be used to hold the media in place. The frame material for these prefilters is cardboard.

Item Description Code 490--HEPA Filters (24" x 24"), Not Acid Contaminated

The material in this IDC is HEPA filters used in the ventilation systems at the RFETS. HEPA filters are used in all of the buildings that contain plutonium processing activities. These HEPA filters are used in large filter plenums that filter the room and glovebox air.

Used filters were removed from their position in the ventilation system and packaged for further processing. The larger-sized filters used in filters plenums were identified and packaged as IDC 490 if not acid contaminated.

IDC 490 HEPA filters (24" x 24"), not acid contaminated, are large HEPA filters (nominal 24" x 24" x 5 or 24" x 12) that were used in filter plenum racks. These filters consist of filter media contained within a wooden or metal frame.

The filter medium is composed of glass fibers, with a small percentage percentage of asbestos. An organic binder, elastomeric adhesive, or polyurethane sealant was use during construction. The medium also contains corrugated aluminum foil. The newer HEPA media will consist of glass and aromatic polyamide fibers (Nomex) and aluminum alloy metal coated with a thermoset vinly or epoxy. Various sealants could be present. The material will not be homogenous because of the different materials used in the different sizes and by the different manufacturers of the filters. The material in IDC 490 has not been contaminated with acid.

The frame material will be either 3/4", fire-retareant, exterior-grade plywood or wood-particle board and 14-gauge cadmium-plated or chromized carbon steel. neoprene, closed-cell, expanded rubber, precoated with a rubber-based adhesive is present on each filter.

More information on HEPA filters can be obtained from RFETS Standard SMU-401 (EG&G 1991).

The IDC 490 HEPA filters in this backlog population consist of filters from Buildings 374, 771, 774, 776, and 777. The majority of these filtes do not contain hazardous consitutents, although evaporated solvents may have been contacted. HEPA filters from Plenums 104A and 104B in Building 374 have contacted hazardous constituents from the Saltcrete Process.

Current Container Comments N/A

EPA Comments N/A

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0492

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W120	**Handling**	CH	**Stream Name**	Filters and Media/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	56.12	56.12	56.12
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	18.65	18.65	18.65
Cellulosics	4.31	4.31	4.31
Rubber	56.12	56.12	56.12
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	152.90		
Packaging Material, Plastic	2.21		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	Y
PCBs:	N
Source:	Multiple

TRUCON Codes

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Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.65E-01
Np-237	1.73E-06
Pu-238	8.71E-02
Pu-239	1.85E+00
Pu-240	4.25E-01
Pu-241	1.09E+01
Pu-242	5.37E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0492

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated	Stored	Projected	Total
	1.9	0.0	1.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	Projected	Total
	1.9	0.0	1.9

TWBIR ID: RF-TT0492

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"HEPA filters (24 x 24), acid contaminated, are large HEPA filters used in the filter plenums of buildings that contain gloveboxes with atmospheres that could cause the filters to be contaminated with acids or bases used in chemical processing. The materials of construction consist of a filter medium contained within a wood frame. Older medium consisted of glass fiber with a small percentage of asbestos and a corrugated aluminum foil. Newer medium is constructed of glass and aromatic polyamide fibers (Nomex) and aluminum alloy metal. Wood filter frames are constructed of ¾-inch fire retardant exterior grade plywood, or particle board."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a mixed waste or residue, (i.e., RF-MRXXXX or RF-MTXXXX), but is being re-characterized as non-mixed waste.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0523A

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W107	**Handling**	CH	**Stream Name**	Soil and Cleanup Debris/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3219

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	36.82	8.59	150.41
Aluminum-Base Metal/Alloys	6.86	0.91	10.41
Other Metal/Alloys	12.60	2.58	21.24
Other Inorganic Materials	21.10	8.50	44.39
Cellulosics	0.00	0.00	0.00
Rubber	1.53	1.53	1.53
Plastics	30.65	19.52	55.37
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	18.40	0.96	40.24
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.56		
Packaging Material, Plastic	32.46		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

121

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.75E+00
Np-237	1.82E-05
Pu-238	4.54E-01
Pu-239	9.69E+00
Pu-240	2.22E+00
Pu-241	5.64E+01
Pu-242	2.80E-04
U-234	2.37E-05
U-235	3.25E-05
U-238	3.78E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0523A

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated	Stored	1.5	Projected	0.0	Total	1.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.5	0.0	0.0	0.0	0.0	1.5

Final Form	Stored	1.5	Projected	0.0	Total	1.5

TWBIR ID: RF-TT0523A

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Miscellaneous non-hazardous organic solids including excess sample containers. This output contains greater than 50% by volume organic particulates.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0523B

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W107	**Handling**	CH	**Stream Name**	Soil and Cleanup Debris/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3900

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	36.82	8.59	150.41
Aluminum-Base Metal/Alloys	6.86	0.91	10.41
Other Metal/Alloys	12.60	2.58	21.24
Other Inorganic Materials	21.10	8.50	44.39
Cellulosics	0.00	0.00	0.00
Rubber	1.53	1.53	1.53
Plastics	30.65	19.52	55.37
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	18.40	0.96	40.24
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.56		
Packaging Material, Plastic	32.46		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

121

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.75E+00
Np-237	1.82E-05
Pu-238	4.54E-01
Pu-239	9.69E+00
Pu-240	2.22E+00
Pu-241	5.64E+01
Pu-242	2.80E-04
U-234	2.37E-05
U-235	3.25E-05
U-238	3.78E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0523B

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated	Stored	1.5	Projected	0.0	Total	1.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.5	0.0	0.0	0.0	0.0	1.5

Final Form	Stored	1.5	Projected	0.0	Total	1.5

TWBIR ID: RF-TT0523B

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Miscellaneous non-hazardous organic solids including excess sample containers. This output contains greater than 50% by volume homogeneous solids.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0523C

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W107	**Handling**	CH	**Stream Name**	Soil and Cleanup Debris/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	36.82	8.59	150.41
Aluminum-Base Metal/Alloys	6.86	0.91	10.41
Other Metal/Alloys	12.60	2.58	21.24
Other Inorganic Materials	21.10	8.50	44.39
Cellulosics	0.00	0.00	0.00
Rubber	1.53	1.53	1.53
Plastics	30.65	19.52	55.37
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	18.40	0.96	40.24
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.56		
Packaging Material, Plastic	32.46		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	Y
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

121

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.75E+00
Np-237	1.82E-05
Pu-238	4.54E-01
Pu-239	9.69E+00
Pu-240	2.22E+00
Pu-241	5.64E+01
Pu-242	2.80E-04
U-234	2.37E-05
U-235	3.25E-05
U-238	3.78E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0523C

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated	Stored	1.5	Projected	0.0	Total	1.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.5	0.0	0.0	0.0	0.0	1.5

Final Form	Stored	1.5	Projected	0.0	Total	1.5

TWBIR ID: RF-TT0523C

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Miscellaneous non-hazardous organic solids including granular activated carbon and charcoal from filter plenums, strippable coating with non-hazardous fixative, and excess sample containers. This output contains greater than 50% by volume inorganic debris. "
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0523D

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W107	**Handling**	CH	**Stream Name**	Soil and Cleanup Debris/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	36.82	8.59	150.41
Aluminum-Base Metal/Alloys	6.86	0.91	10.41
Other Metal/Alloys	12.60	2.58	21.24
Other Inorganic Materials	21.10	8.50	44.39
Cellulosics	0.00	0.00	0.00
Rubber	1.53	1.53	1.53
Plastics	30.65	19.52	55.37
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	18.40	0.96	40.24
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.56		
Packaging Material, Plastic	32.46		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	Y
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

121

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.75E+00
Np-237	1.82E-05
Pu-238	4.54E-01
Pu-239	9.69E+00
Pu-240	2.22E+00
Pu-241	5.64E+01
Pu-242	2.80E-04
U-234	2.37E-05
U-235	3.25E-05
U-238	3.78E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0523D

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated	Stored	Projected	Total
	1.5	0.0	1.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.5	0.0	0.0	0.0	0.0	1.5

Final Form	Stored	Projected	Total
	1.5	0.0	1.5

TWBIR ID: RF-TT0523D

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Miscellaneous non-hazardous organic solids including granular activated carbon and charcoal from filter plenums, strippable coating with non-hazardous fixative, and excess sample containers. This output contains greater than 50% by volume organic debris. "
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0523E

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W107	**Handling**	CH	**Stream Name**	Soil and Cleanup Debris/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5490

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	36.82	8.59	150.41
Aluminum-Base Metal/Alloys	6.86	0.91	10.41
Other Metal/Alloys	12.60	2.58	21.24
Other Inorganic Materials	21.10	8.50	44.39
Cellulosics	0.00	0.00	0.00
Rubber	1.53	1.53	1.53
Plastics	30.65	19.52	55.37
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	18.40	0.96	40.24
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.56		
Packaging Material, Plastic	32.46		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	Y
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

121

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.75E+00
Np-237	1.82E-05
Pu-238	4.54E-01
Pu-239	9.69E+00
Pu-240	2.22E+00
Pu-241	5.64E+01
Pu-242	2.80E-04
U-234	2.37E-05
U-235	3.25E-05
U-238	3.78E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0523E

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated	Stored	1.5	Projected	0.0	Total	1.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.5	0.0	0.0	0.0	0.0	1.5

Final Form	Stored	1.5	Projected	0.0	Total	1.5

TWBIR ID: RF-TT0523E

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Miscellaneous non-hazardous organic solids including granular activated carbon and charcoal from filter plenums, strippable coating with non-hazardous fixative, and excess sample containers. This output contains at least 50% by volume debris waste. "
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0532A

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W107	**Handling**	CH	**Stream Name**	Soil and Cleanup Debris/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	19.44	0.96	42.96
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	23.87	23.87	23.87
Other Inorganic Materials	92.37	1.43	493.57
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	15.87	2.20	41.05
Solidified, Inorganic Matrix	80.40	0.48	339.39
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.51		
Packaging Material, Plastic	29.39		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	Y
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

122, 130

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.50E+00
Np-237	1.87E-04
Pu-238	6.73E-01
Pu-239	1.47E+01
Pu-240	3.35E+00
Pu-241	8.33E+01
Pu-242	4.88E-04
U-234	7.08E-05
U-235	2.61E-06
U-238	4.60E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0532A

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8801 Can	0.0	0.0	0.0	0.0	0.0	0.0
8802 Can	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	14.1	0.8	0.0	0.0	0.0	15.0

As-Generated	Stored	14.2	Projected	0.8	Total	15.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	14.8	0.0	0.0	0.0	0.0	15.6

Final Form	Stored	14.8	Projected	0.8	Total	15.6

TWBIR ID: RF-TT0532A

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Miscellaneous non-hazardous inorganic solids including excess sample containers. This output contains greater than 50% by volume inorganic particulates.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0532B

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W107	**Handling**	CH	**Stream Name**	Soil and Cleanup Debris/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5129

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	19.44	0.96	42.96
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	23.87	23.87	23.87
Other Inorganic Materials	92.37	1.43	493.57
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	15.87	2.20	41.05
Solidified, Inorganic Matrix	80.40	0.48	339.39
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.51		
Packaging Material, Plastic	29.39		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	Y
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

122, 130

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.50E+00
Np-237	1.87E-04
Pu-238	6.73E-01
Pu-239	1.47E+01
Pu-240	3.35E+00
Pu-241	8.33E+01
Pu-242	4.88E-04
U-234	7.08E-05
U-235	2.61E-06
U-238	4.60E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0532B

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8801 Can	0.0	0.0	0.0	0.0	0.0	0.0
8802 Can	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55 gallon	14.1	0.8	0.0	0.0	0.0	15.0

As-Generated	Stored	14.2	Projected	0.8	Total	15.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	14.8	0.0	0.0	0.0	0.0	15.6

Final Form	Stored	14.8	Projected	0.8	Total	15.6

TWBIR ID: RF-TT0532B

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Miscellaneous non-hazardous inorganic solids including desiccants, molecular sieves, salts, sand, gravel, zeolites, kaolin, etc."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0541

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W118	**Handling**	CH	**Stream Name**	Miscellaneous Liquids/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3129

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	7.16	7.16	7.16
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	8.59	8.59	8.59
Solidified, Inorganic Matrix	10.50	10.50	10.50
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.43		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	3.17E-01
Pu-239	6.75E+00
Pu-240	1.55E+00
Pu-241	3.95E+01
Pu-242	1.96E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0541

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8804 Can	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated	Stored	Projected	Total
	0.0	0.0	0.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: RF-TT0541

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description

As result of the shutdown of plutonium operations at RFP in November, 1989, several hundred plastic bottles and several tanks of process liquids remained in storage.

Waste Stream Source Description

The miscellaneous liquids waste form includes uranium solutions from criticality laboratories (IDC 504).

Item Description Code 508

IDC 508 is hydrochloric acid (HCl) containing plutonium generated by various process operations and glovebox-cleaning operations using HCl. Process operations and glovebox-cleaning operations were defined based on preliminary analytical results.

IDC 508 was generated in Cation Exchange in Building 771 from washing residual impurities from the resin with dilute nitric acid.

Chemical Technology in Building 771 generated miscellaneous chloride acid solutions from Batch Chloride Dissolution. This process dissolved plutonium oxide with hydrochloric acid.

Dicesium hexachloroplutonate (DCHP) preparation in Building 371 also generated IDC 508. This process produced DCHP, a salt used to remove americium from nonspecification and impure plutonium oxide. The oxide was dissolved in hydrochloric acid and filtered. The filtrate was then precipitated using cesium chloride and sodium nitrite in hydrochloric acid and then filtered again. Plutonium was recovered from the DCHP precipitation filtrate through chloride anion exchange. This was achieved by processing the solution through ion columns, and the plutonium loaded onto the anion exchange resin while most of the impurities stayed in the solution. This solution then left the column as effluent (IDC 501). The ion column was later washed to release the chloride eluate (IDC 508).

Peroxide Precipitation in Building 779 reacted ion exchange effluent with hydrogen peroxide to produce plutonium peroxide, which was then calcined to produce plutonium oxide. The plutonium peroxide precipitate was filtered and washed.

Residue Recovery Extraction in Building 779 recovered actinides using aqueous leaching techniques. Hydrofluoric acid solutions containing aluminium fluoride, cesium chloride, calcium fluoride, and sodium nitrate were generated.

IDC 508 is mixed residue only.

Item Description Code 527

IDC 527 is caustic waste solutions consisting of sodium hydroxide or potassium hydroxide. Low-Level Dissolution in Building 771 used potassium hydroxide for flushing the condenser when dissolving incinerator ash. H-4 Support Vacuum Systems used potassium hydroxide in an aqueous solution as a seal liquid. Vacuum Systems also used a seal liquid made up of water only.

IDC 527 is mixed residue only.

Item Description Code 541

Building 371

The Building 371 analytical laboratory receives liquid and solid samples from the entire plant site. Samples that are destined for Building 881 are analyzed in Building 371 to screen out those with high levels of radioactivity. Sludge and aqueous samples from Building 374 are analyzed for total alpha activity and plutonium, uranium, and americium content. Prior to analysis, the sludges are dissolved in nitric acid, hydrogen fluoride, or hydrochloric acid. Reagents are also used in sample preparation. Unused portions or excess prepared sample are placed in 4-liter plastic bottles.

TWBIR ID: RF-TT0541

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Building 559

The Building 559 analytical laboratory also receives liquid and solid samples from the entire plant site. Samples are analyzed for various ions, iron, silicon, isotopic composition, and americium, gallium, neptunium, plutonium, uranium, and other metals (Resource Conservation and Recovery Act [RCRA]-regulated and nonregulated). Solid samples are dissolved in a variety of acids, including nitric and hydrochloric. Other chemicals used in the laboratory include methanol, chloroform, and other organic solvents; titanium trichloride; ceric ammonium nitrate; sodium hydroxide; silver chloride; silver nitrate; and various metals standards. Unused portions or excess prepared samples are placed in 4-liter plastic bottles. Metal standards are also placed in the bottles.

Building 771

The Building 771 analytical laboratory also receives liquid and solid samples from the entire plant site. Samples are analyzed for various metals and ions, pH, and radioactivity. The principal chemicals used in the lab include sodium hydroxide, hydrochloric acid, nitric acid, cyclohexane, trioctyl phosphine oxide, yttrium, and various metal standards. Unused portions or excess prepared samples are placed in 4-liter plastic bottles. Metal standards are also placed in the bottles.

Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

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TWBIR ID: RF-TT0545

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W112	**Handling**	CH	**Stream Name**	Solidified Lab Waste/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S3160

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.96	0.96	0.96
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	23.87	23.87	23.87
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	17.18	17.18	17.18
Solidified, Inorganic Matrix	413.85	413.85	413.85
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.43		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	3.53E-02
Pu-239	7.51E-01
Pu-240	1.72E-01
Pu-241	4.40E+00
Pu-242	2.18E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0545

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RF-TT0545

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Non-hazardous solid excess chemicals contaminated with plutonium to TRU concentrations. Chemicals are expired or off-specification in some manner and are therefore not useable.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0601

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-TT0601	**Handling**	CH	**Stream Name**	N/A			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5123

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	6.70	1.91	19.09
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	90.70	90.70	90.70
Other Inorganic Materials	113.57	1.91	654.91
Cellulosics	102.83	12.89	167.07
Rubber	0.00	0.00	0.00
Plastics	36.16	7.35	90.69
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.22		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N/A
PCBs:	N/A
Source:	N/A

TRUCON Codes

118

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.33E+00
Np-237	5.49E-05
Pu-238	9.37E-01
Pu-239	2.08E+01
Pu-240	4.83E+00
Pu-241	1.10E+02
Pu-242	5.71E-04
U-234	1.01E-05
U-235	3.26E-07
U-238	2.89E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0601

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
POC / 55 gallon	2.7	0.0	0.0	0.0	0.0	2.7

As-Generated	Stored	Projected	Total
	2.7	0.0	2.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	2.7	0.0	0.0	0.0	0.0	2.7

Final Form	Stored	Projected	Total
	2.7	0.0	2.7

TWBIR ID: RF-TT0601

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	N/A
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Waste Stream currently exists in the TWBIR as a residue, (i.e., RF-TRXXXX), but is being revised to transuranic, (i.e., RF-TTXXXX).
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0802

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W112	**Handling**	CH	**Stream Name**	Soliified Lab Waste/TRU			**Inventory Date**	9/30/2002
Local ID	IDC 802	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3190

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	1235.99	1168.05	1311.26
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	17.18	17.18	17.18
Solidified, Inorganic Matrix	1205.29	1120.32	1291.68
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	137.36		
Packaging Material, Plastic	23.94		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Pollution Control or Waste Treatment Process

TRUCON Codes

113

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.74E+01
Pu-238	3.65E+00
Pu-239	7.82E+01
Pu-240	1.78E+01
Pu-241	4.55E+02
Pu-242	2.25E-03
U-235	9.68E-04
U-238	4.18E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0802

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	53.5	1.0	0.0	0.0	0.0	54.5
Drum / 85 gallon	1.3	0.0	0.0	0.0	0.0	1.3

As-Generated	Stored	Projected	Total
	54.7	1.0	55.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	53.6	0.0	0.0	0.0	0.0	54.6
85 Gallon Drum	1.3	0.0	0.0	0.0	0.0	1.3

Final Form	Stored	Projected	Total
	54.9	1.0	55.9

TWBIR ID: RF-TT0802

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	IDC 802 is a cemented final waste form.
Waste Stream Source Description	IDC No. 802. This waste stream is liquid waste solidified with Portland Cement. This waste consists of waste liquids from the analytical labs, research and development laboratories, and maintenance shops which are packaged and sent to Building 774 for immobilization with Portland cement and absorbent cement. These are wastes which are incompatible with the process collection system and the liquid waste treatment plant. Acidic wastes are neutralized before immobilization. Immobilization is done in 55-gallon drums. Approximately 21 gallons of waste are added to each drum prior to storage. This waste steam is newly identified since the Storage and Inventory Report.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0809

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W122	**Handling**	CH	**Stream Name**	Organic Resins/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3190

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	2.27	1.43	4.77
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	4.77	4.77	4.77
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	25.99	6.68	62.53
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	121.07	47.73	265.40
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.45		
Packaging Material, Plastic	25.89		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

126

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.74E+01
Pu-238	3.65E+00
Pu-239	7.82E+01
Pu-240	1.78E+01
Pu-241	4.55E+02
Pu-242	2.25E-03
U-235	9.68E-04
U-238	4.18E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0809

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	2.5	1.0	0.0	0.0	0.0	3.5

As-Generated	Stored	Projected	Total
	2.5	1.0	3.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.5	0.0	0.0	0.0	0.0	3.5

Final Form	Stored	Projected	Total
	2.5	1.0	3.5

TWBIR ID: RF-TT0809

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	It consists of unleached resin (IDC 430) and leached resin (IDC 431).
Waste Stream Source Description	Organic residues were generated at RFETS by process treatments in Buildings 371 and 771 and encompass IDCs 430 and 431. The purification processes generated unleached resin, IDC 430. There are about eight drums of this IDC in storage. The approximate dates of generation for this IDC began on October 24, 1986. The IDC 431, leached resin, was also generated by the cation exchange and anion exchange processes in Buildings 371 and 771. There are about one hundred and thirty containers of IDC 431 material in storage. The approximate dates of generation for this IDC began on July 31, 1987. Additional information specific to the ion-exchange resins were important to the plutonium purfication processes at RFETS. Plutonium-contaminated materials were often dissolved in nitric acid and processed through ion exchange. The ion-exchange resin contained in an ion-exchange column was charged with highly concentrated nitric acids by trickling this solution through the columns. A plutonium-contaminated solution was then trickled through the column. The charged resin beads attracted the plutonium from the contaminated solution to the surface of the resin bead. The loaded resin beads were then leached by trickling another nitric acid solution through the tube. This final nitric solution drew the plutonium from the beads into solution and allowed for purification of the plutonium. The resin was periodically replaced when this process had depleted the efficiency of the resin. The ion exchange resins in use at Rocky Flats were generally small plastic (polystyrene) beads in which long-chain organic compounds with an activitated group are imbedded (such as Dowex 1 x 2). Item Description Code 430--Resin, Unleached Unleached resin, IDC 430, was produced when the resin in ion exchange columns was replaced. Though this IDC is titled "unleached" resin, the generators of resins confirm that all resins were rinsed with, at least, weak acid before the resins were removed from the columns. Item Description Code 431--Resin, Leached Leached resin, IDC 431, was produced when the resin in ion exchange columns were replaced. The resin leached (rinsed) with water before th eresin was removed from the columns. Item Description Code 809-Cemented Resins IDC 430 and 431 are cemented into waste forms IDC 809 due to being fine particulate nature. The solid waste form will be looked at to make sure it meets the WIPP WAC criteria.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0821

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W101	**Handling**	CH	**Stream Name**	Combustibles/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1.01	0.32	38.19
Aluminum-Base Metal/Alloys	1.35	0.33	15.71
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	1.90	0.37	40.57
Cellulosics	6.10	4.31	12.89
Rubber	8.60	0.42	143.15
Plastics	5.30	0.84	57.28
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	1.91	8.26	8.26
Soils	0.00	0.00	0.00
Packaging Material, Steel	149.37		
Packaging Material, Plastic	8.05		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

116

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.79E-01
Np-237	6.43E-06
Pu-238	2.52E-01
Pu-239	5.81E+00
Pu-240	1.33E+00
Pu-241	2.57E+01
Pu-242	1.36E-04
U-234	6.80E-04
U-235	2.32E-05
U-238	6.04E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0821

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
1/2 Wood Box	23.9	0.0	0.0	0.0	0.0	23.9
Box / Wood	123.6	0.0	0.0	0.0	0.0	123.6
Drum / 55 gallon	50.5	2.1	0.0	0.0	0.0	52.6
Standard Waste Box	11.4	15.2	0.0	0.0	0.0	26.6

As-Generated	Stored	209.4	Projected	17.3	Total	226.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	50.7	0.0	0.0	0.0	0.0	52.7
Standard Waste Box	160.6	0.0	0.0	0.0	0.0	175.8

Final Form	Stored	211.3	Projected	17.2	Total	228.5

TWBIR ID: RF-TT0821

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills.
Waste Stream Source Description	IDC 302 includes Benelex and Plexiglas. Benelex is a very dense organic material used for radiation shielding around gloveboxes and tanks. In some cases, Benelex is laminated with lead. However, none of the containers identified here have lead lamination. The Benelex used by RFETS is usually 2 inches thick, although occasionally two 2-inch thick pieces were bolted together to increase shield thickness. Plexiglas is a trade name used to describe a family of polycarbonate materials used for radiation shielding in glovebox windows and equipment enclosures. Plexiglas glovebox windows are generally 2- to 4-inches thick and can be in various sizes and shapes. Benelex and Plexiglas in the inventory were generated in Buildings 371, 707, 771, and 776. The IDC was generated as waste during replacement of shielding or stripout of unnecessary shielding during the installation of new gloveboxes or tanks. IDC 330 is dry combustibles such as cloth, paper, and wood. This IDC changes to 821, 831, 851, or 861 at the point of assay, depending upon radiological content IDC 336, wet combustibles, are materials such as, paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent an accumulation of free liquid. This IDC changes to 822, 832, 833, or 862 at the point of assay. IDC 337 is PVC sheeting, poly bottles, supplied-air suits, polyethylene, and other plastics. This IDC changes to 825, 833, 853, or 863 at the point of assay. IDC 487 is classified plastic shapes used in handling and shipping. If TRU, shapes must be declassified prior to shipment. If LLW, IDC must be authorized by NTS prior to shipment. Classified Waste drums must be stenciled and handled according to Safeguards and Security procedures. IDC 821 is dry combustibles such as paper, cloth, and wood. IDC 822 is wet combustibles such as paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent accumulation of free liquid. ICD 825 is PVC sheeting, poly bottles, supplied-air suits, and other plastic. IDC 831 is dry combustibles such as paper, cloth, and wood. IDC 832 is wet combustibles such as paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent accumulation of free liquid. IDC 833 is PVC sheeting, poly bottles, supplied-air suits, and other plastics.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A

TWBIR ID: RF-TT0821

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Comments N/A

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TWBIR ID: RF-TT0822

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W101	**Handling**	CH	**Stream Name**	Combustibles/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	2.43	0.05	23.87
Aluminum-Base Metal/Alloys	1.05	0.91	2.39
Other Metal/Alloys	1.06	1.43	1.43
Other Inorganic Materials	33.40	0.29	197.62
Cellulosics	10.68	4.31	12.89
Rubber	10.05	0.32	46.68
Plastics	20.23	0.95	193.32
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.21	0.29	0.29
Soils	10.21	13.75	13.75
Packaging Material, Steel	142.06		
Packaging Material, Plastic	21.73		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

116

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.11E+00
Np-237	9.49E-06
Pu-238	1.87E-01
Pu-239	4.16E+00
Pu-240	9.47E-01
Pu-241	2.18E+01
Pu-242	1.18E-04
U-234	7.02E-04
U-235	2.26E-05
U-238	2.27E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0822

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / Wood	12.7	0.0	0.0	0.0	0.0	12.7
Drum / 55 gallon	100.7	40.8	0.0	0.0	0.0	141.4
Drum / 85 gallon	0.3	0.0	0.0	0.0	0.0	0.3
Standard Waste Box	20.9	20.9	0.0	0.0	0.0	41.8

As-Generated	Stored	134.6	Projected	61.7	Total	196.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	100.9	0.0	0.0	0.0	0.0	141.7
85 Gallon Drum	0.3	0.0	0.0	0.0	0.0	0.3
Standard Waste Box	28.4	0.0	0.0	0.0	0.0	49.1

Final Form	Stored	129.6	Projected	61.6	Total	191.2

TWBIR ID: RF-TT0822

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills.
Waste Stream Source Description	IDC 302 includes Benelex and Plexiglas. Benelex is a very dense organic material used for radiation shielding around gloveboxes and tanks. In some cases, Benelex is laminated with lead. However, none of the containers identified here have lead lamination. The Benelex used by RFETS is usually 2 inches thick, although occasionally two 2-inch thick pieces were bolted together to increase shield thickness. Plexiglas is a trade name used to describe a family of polycarbonate materials used for radiation shielding in glovebox windows and equipment enclosures. Plexiglas glovebox windows are generally 2- to 4-inches thick and can be in various sizes and shapes. Benelex and Plexiglas in the inventory were generated in Buildings 371, 707, 771, and 776. The IDC was generated as waste during replacement of shielding or stripout of unnecessary shielding during the installation of new gloveboxes or tanks. IDC 330 is dry combustibles such as cloth, paper, and wood. This IDC changes to 821, 831, 851, or 861 at the point of assay, depending upon radiological content IDC 336, wet combustibles, are materials such as, paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent an accumulation of free liquid. This IDC changes to 822, 832, 833, or 862 at the point of assay. IDC 337 is PVC sheeting, poly bottles, supplied-air suits, polyethylene, and other plastics. This IDC changes to 825, 833, 853, or 863 at the point of assay. IDC 487 is classified plastic shapes used in handling and shipping. If TRU, shapes must be declassified prior to shipment. If LLW, IDC must be authorized by NTS prior to shipment. Classified Waste drums must be stenciled and handled according to Safeguards and Security procedures. IDC 821 is dry combustibles such as paper, cloth, and wood. IDC 822 is wet combustibles such as paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent accumulation of free liquid. ICD 825 is PVC sheeting, poly bottles, supplied-air suits, and other plastic. IDC 831 is dry combustibles such as paper, cloth, and wood. IDC 832 is wet combustibles such as paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent accumulation of free liquid. IDC 833 is PVC sheeting, poly bottles, supplied-air suits, and other plastics.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A

TWBIR ID: RF-TT0822

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Comments N/A

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TWBIR ID: RF-TT0823

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W100	**Handling**	CH	**Stream Name**	Cemented Sludge/TRU			**Inventory Date**	9/30/2002
Local ID	IDC 823	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3900

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	36.82	8.59	150.41
Aluminum-Base Metal/Alloys	6.86	0.91	10.41
Other Metal/Alloys	12.60	2.58	21.24
Other Inorganic Materials	21.10	8.50	44.39
Cellulosics	0.00	0.00	0.00
Rubber	1.53	1.53	1.53
Plastics	30.65	19.52	55.37
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	18.40	0.96	40.24
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.56		
Packaging Material, Plastic	32.46		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Pollution Control or Waste Treatment Process

TRUCON Codes

116

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.75E+00
Np-237	1.82E-05
Pu-238	4.54E-01
Pu-239	9.69E+00
Pu-240	2.22E+00
Pu-241	5.64E+01
Pu-242	2.80E-04
U-234	2.37E-05
U-235	3.25E-05
U-238	3.78E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0823

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RF-TT0823

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consists of cemented miscellaneous sludge (IDC 823)
Waste Stream Source Description	IDC 823, cemented miscellaneous sludge, was generated when sludge designated as inorganic particulate and sludgy material that was below the economic discard limit (EDL) was placed in 1-gallon paint cans and covered with Portland cement or mixed with cement into a block. The first scenario was conducted in Building 771 and the second in Building 371. This could have included IDCs 290-299 and was done to meet the Waste Isolation Pilot Plant (WIPP) waste acceptance criteria. The material came primarily from Nash pumps in Building 771 and included vacuum grease and oily sludge. One drum of the material was apparently generated when the pit in front of Building 707 was cleaned out. However, the contents of the pit sludge could not be ascertained. One drum was generated in the Size Reduction Vault in Building 776. Six drums were generated in Bulding 774 and stored in Building 371.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0824

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W109	**Handling**	CH	**Stream Name**	METAL/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5111

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	278.52	12.70	1492.26
Aluminum-Base Metal/Alloys	36.18	0.31	222.36
Other Metal/Alloys	14.74	0.14	95.59
Other Inorganic Materials	5.18	0.15	36.99
Cellulosics	6.74	4.31	25.78
Rubber	4.09	0.05	29.64
Plastics	11.63	1.29	73.51
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	5.89	2.01	7.88
Soils	0.00	0.00	0.00
Packaging Material, Steel	148.67		
Packaging Material, Plastic	11.54		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

117

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.69E-01
Np-237	3.65E-06
Pu-238	1.08E-01
Pu-239	2.35E+00
Pu-240	5.39E-01
Pu-241	1.30E+01
Pu-242	6.50E-05
U-234	5.06E-05
U-235	2.38E-06
U-238	3.43E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0824

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
1/2 Wood Box	8.0	0.0	0.0	0.0	0.0	8.0
Box / Metal	6.3	0.0	0.0	0.0	0.0	6.3
Box / Wood	6.3	0.0	0.0	0.0	0.0	6.3
Drum / 55 gallon	163.1	76.1	0.0	0.0	0.0	239.2
Standard Waste Box	323.0	273.6	0.0	0.0	0.0	596.6

As-Generated	Stored	506.7	Projected	349.7	Total	856.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	163.4	0.0	0.0	0.0	0.0	239.7
Standard Waste Box	338.3	0.0	0.0	0.0	0.0	610.5

Final Form	Stored	501.7	Projected	348.5	Total	850.2

TWBIR ID: RF-TT0824

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste includes items such as gloveboxes and machinery, and empty containers. Items that are difficult to reduce to a size that would fit in a 55-gal. drum are placed in DOT 7A, Type A metal boxes. These drums are lined with a rigid polyethylene liner, fiberboard liner and several bag liners. The boxes are lined with a fiberboard and PVC liner.
Waste Stream Source Description	IDC 479 is assigned to empty reusable cans generated in Building 559, 707, and 771 (containers currently in WEMS from these buildings). Stainless-steel cans were used to handle plutonium-contaminated material. Primary generation was through the use of these cans to manually transfer materials between gloveboxes. Cans that were introduced to the process were typically recycled and reused. There were no generation process descriptions in WSRIC for this waste in Buildings 559, 707, and 771. In Building 371, the Dicesium Hexachloroplutonate (DCHP) Process often used the cans for transferring materials into the stacker. IDC 480 is assigned to line- and nonline-generated light metals generated in Building 371, 374, 444, 559, 707, 774, 776, 777, 779, 865, and 991 (containers currently in WEMS from these buildings). Light metals include aluminum, copper, iron, brass, bronze, galvanized metal, stainless steel, carbon steel, and other metal alloys contained in waste mechanical and electrical parts, tools, containers, scrap metals, piping, wire, cable, gauges, valves, foil, planchets, and a variety of other metal items. The maintenance operation was inextricably linked with the generation of the material that created this IDC. The maintenance operation was inextricably linked with the generation of the material that created this IDC. The maintenance-generated materials were generated throughout the entire facility. Backlog containers of this IDC may contain a matrix of all light metals listed above. IDC 481 was assigned to light, nonspecial source metals. This material consisted primarily of stainless-steel and aluminum equipment used throughout the plant; this equipment was rinsed to remove plutonium contamination. This IDC is no longer active and has been replaced by IDC 480. The three containers in inventory were generated in Buildings 771, 776, and 777 in November 1984. IDC 484 was assigned to classified non-nuclear material scrap metal shapes made primarily of stainless steel and aluminum. Prior to 1987, IDC 484 included beryllium shapes. These items were generated in Buildings 777 and 779 during disassembly operations of site-return units. Buildings 444, 707, and 883 generated rejected parts. Containers in inventory were generated from February 1983 to May 1991. IDC 485 was assigned to scrap D-38 classified metal shapes. Generation of this material occurred in Building 777 during disassembly of site-return units. Building 444 generated rejected parts. Containers in inventory were generated from July 1987 to August 1992. IDC 486 was assigned to classified tooling for disposal. Generation of these tools occurred in Buildings 707 and 777. The material consists primarily of obsolete tooling including pot chucks and inspection gauges. Containers in inventory were generated from October 1982 to December 1992. IDC 489 was assigned to scrap D-38 classified metal shapes generated in Buildings 777 and 779 during disassembly of site-return units. containers in inventory were generated from February 1986 to September 1990. IDC 824 is assigned to transuranic light metals generated in Buildings 371, 559, 707, and 771 (containers currently in WEMS from these buildings). Light metals include aluminum, copper, iron, brass, bronze, galvanized metal, stainless steel, carbon steel, and other metal alloys contained in waste mechanical and electrical parts, tools, containers, scrap metals, piping, wire, cable, gauges, valves, foil, planchets, and a variety of other metal items.
Current Container Comments	N/A
EPA Comments	N/A

TWBIR ID: RF-TT0824

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

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TWBIR ID: RF-TT0825

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W101	**Handling**	CH	**Stream Name**	Combustibles/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	2.31	0.05	105.49
Aluminum-Base Metal/Alloys	0.55	0.48	1.19
Other Metal/Alloys	2.00	0.10	12.32
Other Inorganic Materials	7.35	0.24	267.31
Cellulosics	10.31	4.31	12.89
Rubber	30.57	0.14	214.95
Plastics	122.47	5.25	793.34
Solidified, Inorganic Matrix	1.95	2.77	2.77
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	24.24	8.02	49.13
Soils	0.00	0.00	0.00
Packaging Material, Steel	142.69		
Packaging Material, Plastic	20.52		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

116

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.44E-01
Np-237	9.20E-06
Pu-238	1.52E-01
Pu-239	3.46E+00
Pu-240	7.90E-01
Pu-241	1.68E+01
Pu-242	8.77E-05
U-234	1.28E-04
U-235	4.15E-06
U-238	2.79E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0825

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
1/2 Wood Box	9.5	0.0	0.0	0.0	0.0	9.5
Box / Wood	63.4	0.0	0.0	0.0	0.0	63.4
Drum / 55 gallon	291.0	68.4	0.0	0.0	0.0	359.4
Standard Waste Box	36.1	41.8	0.0	0.0	0.0	77.9

As-Generated	Stored	400.0	Projected	110.2	Total	510.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	291.6	0.0	0.0	0.0	0.0	360.2
Standard Waste Box	109.6	0.0	0.0	0.0	0.0	151.2

Final Form	Stored	401.2	Projected	110.2	Total	511.4

TWBIR ID: RF-TT0825

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills.
Waste Stream Source Description	IDC 302 includes Benelex and Plexiglas. Benelex is a very dense organic material used for radiation shielding around gloveboxes and tanks. In some cases, Benelex is laminated with lead. However, none of the containers identified here have lead lamination. The Benelex used by RFETS is usually 2 inches thick, although occasionally two 2-inch thick pieces were bolted together to increase shield thickness. Plexiglas is a trade name used to describe a family of polycarbonate materials used for radiation shielding in glovebox windows and equipment enclosures. Plexiglas glovebox windows are generally 2- to 4-inches thick and can be in various sizes and shapes. Benelex and Plexiglas in the inventory were generated in Buildings 371, 707, 771, and 776. The IDC was generated as waste during replacement of shielding or stripout of unnecessary shielding during the installation of new gloveboxes or tanks. IDC 330 is dry combustibles such as cloth, paper, and wood. This IDC changes to 821, 831, 851, or 861 at the point of assay, depending upon radiological content IDC 336, wet combustibles, are materials such as, paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent an accumulation of free liquid. This IDC changes to 822, 832, 833, or 862 at the point of assay. IDC 337 is PVC sheeting, poly bottles, supplied-air suits, polyethylene, and other plastics. This IDC changes to 825, 833, 853, or 863 at the point of assay. IDC 487 is classified plastic shapes used in handling and shipping. If TRU, shapes must be declassified prior to shipment. If LLW, IDC must be authorized by NTS prior to shipment. Classified Waste drums must be stenciled and handled according to Safeguards and Security procedures. IDC 821 is dry combustibles such as paper, cloth, and wood. IDC 822 is wet combustibles such as paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent accumulation of free liquid. ICD 825 is PVC sheeting, poly bottles, supplied-air suits, and other plastic. IDC 831 is dry combustibles such as paper, cloth, and wood. IDC 832 is wet combustibles such as paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent accumulation of free liquid. IDC 833 is PVC sheeting, poly bottles, supplied-air suits, and other plastics.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A

TWBIR ID: RF-TT0825

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Comments N/A

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TWBIR ID: RF-TT0832

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W101	**Handling**	CH	**Stream Name**	Combustibles/TRU			**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	2.40	0.48	23.87
Aluminum-Base Metal/Alloys	2.14	0.86	2.82
Other Metal/Alloys	4.75	0.48	10.50
Other Inorganic Materials	78.92	0.48	301.01
Cellulosics	12.85	10.98	12.89
Rubber	71.68	0.24	826.75
Plastics	23.43	1.43	186.16
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	253.04	253.04	253.04
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.51		
Packaging Material, Plastic	30.84		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

116

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.83E+00
Np-237	1.18E-05
Pu-238	2.69E-01
Pu-239	6.07E+00
Pu-240	1.38E+00
Pu-241	3.17E+01
Pu-242	1.69E-04
U-234	1.72E-04
U-235	5.59E-06
U-238	5.48E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0832

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.4	100.0	0.0	0.0	0.0	100.5

As-Generated	Stored	Projected	Total
	0.4	100.0	100.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	100.7

Final Form	Stored	Projected	Total
	0.4	100.3	100.7

TWBIR ID: RF-TT0832

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills.
Waste Stream Source Description	IDC 302 includes Benelex and Plexiglas. Benelex is a very dense organic material used for radiation shielding around gloveboxes and tanks. In some cases, Benelex is laminated with lead. However, none of the containers identified here have lead lamination. The Benelex used by RFETS is usually 2 inches thick, although occasionally two 2-inch thick pieces were bolted together to increase shield thickness. Plexiglas is a trade name used to describe a family of polycarbonate materials used for radiation shielding in glovebox windows and equipment enclosures. Plexiglas glovebox windows are generally 2- to 4-inches thick and can be in various sizes and shapes. Benelex and Plexiglas in the inventory were generated in Buildings 371, 707, 771, and 776. The IDC was generated as waste during replacement of shielding or stripout of unnecessary shielding during the installation of new gloveboxes or tanks. IDC 330 is dry combustibles such as cloth, paper, and wood. This IDC changes to 821, 831, 851, or 861 at the point of assay, depending upon radiological content IDC 336, wet combustibles, are materials such as, paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent an accumulation of free liquid. This IDC changes to 822, 832, 833, or 862 at the point of assay. IDC 337 is PVC sheeting, poly bottles, supplied-air suits, polyethylene, and other plastics. This IDC changes to 825, 833, 853, or 863 at the point of assay. IDC 487 is classified plastic shapes used in handling and shipping. If TRU, shapes must be declassified prior to shipment. If LLW, IDC must be authorized by NTS prior to shipment. Classified Waste drums must be stenciled and handled according to Safeguards and Security procedures. IDC 821 is dry combustibles such as paper, cloth, and wood. IDC 822 is wet combustibles such as paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent accumulation of free liquid. ICD 825 is PVC sheeting, poly bottles, supplied-air suits, and other plastic. IDC 831 is dry combustibles such as paper, cloth, and wood. IDC 832 is wet combustibles such as paper, cloth, and wood, which contain a discernible amount of moisture. Must be drained or wrung out prior to packaging to prevent accumulation of free liquid. IDC 833 is PVC sheeting, poly bottles, supplied-air suits, and other plastics.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A

TWBIR ID: RF-TT0832

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Comments N/A

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TWBIR ID: RF-TT0854

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W109	**Handling**	CH	**Stream Name**	Metal/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5111

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	412.90	412.90	412.90
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.57		
Packaging Material, Plastic	32.46		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

117

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	1.84E-02
Pu-239	3.92E-01
Pu-240	8.99E-02
Pu-241	2.30E+00
Pu-242	1.14E-05
U-234	2.65E-04
U-235	3.06E-05
U-238	2.38E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0854

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.6	1.0	0.0	0.0	0.0	1.7

As-Generated	Stored	Projected	Total
	0.6	1.0	1.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	1.7

Final Form	Stored	Projected	Total
	0.6	1.0	1.7

TWBIR ID: RF-TT0854

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Unclassified beryllium metal consists of scrap beryllium metal pieces, chips and turnings from repackaging and decontamination and decommissioning operations."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT0886

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W112	**Handling**	CH	**Stream Name**	Solidified Lab Waste/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3160

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	17.34	9.07	28.64
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	31.82	22.44	43.44
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	3.53E-02
Pu-239	7.51E-01
Pu-240	1.72E-01
Pu-241	4.40E+00
Pu-242	2.18E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0886

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8804 Can	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated	Stored	Projected	Total
	0.0	0.0	0.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: RF-TT0886

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Non-hazardous solid excess chemicals contaminated with plutonium to TRU concentrations. Chemicals are expired or off-specification in some manner and are therefore not useable.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT2216

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W106	**Handling**	CH	**Stream Name**	Supercompacted Combustibles/TRU	**Inventory Date**	9/30/2002
Local ID	None	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	269.39	0.00	0.00
Aluminum-Base Metal/Alloys	1.52	0.00	0.00
Other Metal/Alloys	5.33	0.00	0.00
Other Inorganic Materials	13.90	0.00	0.00
Cellulosics	24.37	0.00	0.00
Rubber	82.63	0.00	0.00
Plastics	260.45	0.00	0.00
Solidified, Inorganic Matrix	5.33	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	26.27	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Pollution Control or Waste Treatment Process

TRUCON Codes

116

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.83E+00
Np-237	1.18E-05
Pu-238	2.69E-01
Pu-239	6.07E+00
Pu-240	1.38E+00
Pu-241	3.17E+01
Pu-242	1.69E-04
U-234	1.72E-04
U-235	5.59E-06
U-238	5.48E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT2216

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	3.1	0.0	0.0	0.0	0.0	3.1

As-Generated	Stored	3.1	Projected	0.0	Total	3.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	3.1	0.0	0.0	0.0	0.0	3.1

Final Form	Stored	3.1	Projected	0.0	Total	3.1

TWBIR ID: RF-TT2216

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	N/A
Waste Stream Source Description	This waste consists of cloth and paper products from cleanup of gloveboxes and spills which has been supercompacted for volume reduction. IDC 2116 is supercompacted combustible waste consisting of any combination of IDC 831, 832, or 833 waste. IDC 2216 is supercompacted combustible waste consisting of any combination of 821, 822, or 825. IDC 2116 is supercompacted combustible waste consisting of any combination of IDC 831, 832, or 833 waste. IDC 2216 is supercompacted combustible waste consisting of any combination of 821, 822, or 825.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT3010

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W109	**Handling**	CH	**Stream Name**	Metal/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	259.62	38.45	585.72
Aluminum-Base Metal/Alloys	19.27	0.96	41.03
Other Metal/Alloys	12.97	0.11	52.65
Other Inorganic Materials	15.25	1.04	32.26
Cellulosics	4.88	4.31	12.89
Rubber	3.26	0.86	12.24
Plastics	15.26	2.05	87.35
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	151.71		
Packaging Material, Plastic	7.48		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	Y
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

130

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.47E-01
Np-237	5.72E-06
Pu-238	1.04E-01
Pu-239	2.25E+00
Pu-240	5.16E-01
Pu-241	1.27E+01
Pu-242	6.27E-05
U-234	7.03E-06
U-235	2.27E-07
U-238	9.27E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT3010

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	3.7	20.0	0.0	0.0	0.0	23.7
Standard Waste Box	34.2	302.1	0.0	0.0	0.0	336.3

As-Generated	Stored	Projected	Total
	37.9	322.1	360.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	3.8	0.0	0.0	0.0	0.0	23.8
Standard Waste Box	34.0	0.0	0.0	0.0	0.0	334.5

Final Form	Stored	Projected	Total
	37.8	320.5	358.3

TWBIR ID: RF-TT3010

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"This IDC is assigned to composite debris, rubble, or material composed of such things as gloveboxes, process equipment and other inorganic materials, such as concrete, glass, firebrick, ceramics, asbestos, etc. The materials contain up to 10 weight percent hydrogenous (organic) material such as cellulosics, Plexiglas, rubber, small quantities of nonhazardous liquid (e.g., Texaco 650 oil) absorbed or solidified using Oil Dri or Nochar polymer, or other organic materials associated with the waste items."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT3011

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W109	**Handling**	CH	**Stream Name**	Metal/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5490

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	201.02	4.02	712.33
Aluminum-Base Metal/Alloys	7.15	0.16	32.94
Other Metal/Alloys	69.19	0.76	566.71
Other Inorganic Materials	36.29	0.14	358.76
Cellulosics	4.42	4.31	12.89
Rubber	4.22	0.11	47.72
Plastics	29.68	0.43	225.63
Solidified, Inorganic Matrix	4.72	0.53	10.67
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	16.27	0.71	52.54
Soils	0.00	0.00	0.00
Packaging Material, Steel	152.42		
Packaging Material, Plastic	5.24		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	Y
PCBs:	N
Source:	Decontamination and Decommissioning

TRUCON Codes

121

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.57E-01
Np-237	6.84E-06
Pu-238	7.20E-02
Pu-239	1.53E+00
Pu-240	3.52E-01
Pu-241	8.98E+00
Pu-242	4.44E-05
U-234	1.55E-05
U-235	5.03E-07
U-238	3.87E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT3011

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	17.1	1.0	0.0	0.0	0.0	18.1
Standard Waste Box	723.9	685.9	0.0	0.0	0.0	1409.8

As-Generated	Stored	Projected	Total
	741.0	686.9	1427.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	17.1	0.0	0.0	0.0	0.0	18.1
Standard Waste Box	720.1	0.0	0.0	0.0	0.0	1402.4

Final Form	Stored	Projected	Total
	737.2	683.3	1420.5

TWBIR ID: RF-TT3011

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"This IDC is assigned to composite debris, rubble, or material composed of such things as gloveboxes, process equipment and other inorganic materials, such as concrete, glass, firebrick, ceramics, asbestos, etc. This material typically contains greater than 10 weight percent hydrogenous (organic) material such as cellulosics, plastic, Plexiglas, rubber, small quantities of nonhazardous liquid (e.g., Texaco 650 oil) absorbed or solidified using Oil Dri or Nochar polymer, or other organic materials associated with the waste items; however, there is no upper limit for the amount of hydrogenous material. "
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT301U

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W117	**Handling**	CH	**Stream Name**	Coarse Graphite/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Graphite	**Waste Matrix Code**	S5126

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	84.62	35.80	114.56
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	288.22	229.60	332.23
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	19.44	10.50	23.39
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.53		
Packaging Material, Plastic	30.36		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Residue Repackaging

TRUCON Codes

115

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.31E+00
Np-237	1.38E-05
Pu-238	1.06E+00
Pu-239	2.32E+01
Pu-240	5.41E+00
Pu-241	1.24E+02
Pu-242	6.60E-04
U-234	1.01E-05
U-235	3.88E-07
U-238	6.54E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT301U

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	15.6	0.0	0.0	0.0	0.0	15.6

As-Generated	Stored	15.6	Projected	0.0	Total	15.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	15.6	0.0	0.0	0.0	0.0	15.6

Final Form	Stored	15.6	Projected	0.0	Total	15.6

TWBIR ID: RF-TT301U

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Classified graphite shapes that have been sanitized by crushing in a hammermill to a size of less than ½-inch in diameter.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT310P

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W117	**Handling**	CH	**Stream Name**	Coarse Graphite/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Graphite	**Waste Matrix Code**	S5126

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	8.22	3.68	16.23
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	33.05	12.75	63.49
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	1.91	1.91	1.91
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.17		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Residue Repackaging

TRUCON Codes

115

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.80E+00
Np-237	3.12E-06
Pu-238	1.60E+00
Pu-239	4.50E+01
Pu-240	9.80E+00
Pu-241	1.49E+02
Pu-242	7.15E-04
U-234	1.36E-06
U-235	4.38E-08
U-238	3.87E-10

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT310P

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
POC / 55 gallon	2.7	0.0	0.0	0.0	0.0	2.7

As-Generated	Stored	2.7	Projected	0.0	Total	2.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	2.7	0.0	0.0	0.0	0.0	2.7

Final Form	Stored	2.7	Projected	0.0	Total	2.7

TWBIR ID: RF-TT310P

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	A blended product of IDC 310 and IDC 301U
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT338S

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W115	**Handling**	CH	**Stream Name**	Coarse Graphite/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	19.44	0.96	42.96
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	23.87	23.87	23.87
Other Inorganic Materials	92.37	1.43	493.57
Cellulosics	12.89	12.89	12.89
Rubber	0.00	0.00	0.00
Plastics	15.87	2.20	41.05
Solidified, Inorganic Matrix	80.40	0.48	339.39
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.51		
Packaging Material, Plastic	29.39		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Residue Repackaging

TRUCON Codes

121

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.21E-02
Pu-238	4.74E-01
Pu-239	1.01E+01
Pu-240	2.31E+00
Pu-241	5.92E+01
Pu-242	2.92E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT338S

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Slip Lid Can	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated	Stored	Projected	Total
	0.0	0.0	0.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	Projected	Total
	0.4	0.0	0.4

TWBIR ID: RF-TT338S

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Insulation standards discovered during residue repackaging.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT390P

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W116	**Handling**	CH	**Stream Name**	"Sand, Slag, and Crucible/TRU"			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5129

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	9.07	9.07	9.07
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	23.39	23.39	23.39
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.22		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Materials Production/Repackaging

TRUCON Codes

122

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.61E+00
Pu-238	1.29E+00
Pu-239	4.91E+01
Pu-240	1.04E+01
Pu-241	1.47E+02
Pu-242	5.42E-04
U-234	6.91E-05
U-235	2.23E-06
U-238	1.97E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT390P

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
POC / 55 gallon	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RF-TT390P

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Unpulverized calcium fluoride slag processed for shipment to the Savannah River Site (SRS). The SRS project was cancelled, and this IDC is now considered waste."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT391P

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W116	**Handling**	CH	**Stream Name**	"Sand, Slag, and Crucible/TRU"			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5129

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	28.20	16.23	45.35
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	26.93	15.75	39.14
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.22		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Materials Production/Repackaging

TRUCON Codes

122

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.21E+00
Np-237	8.90E-06
Pu-238	1.06E+00
Pu-239	4.05E+01
Pu-240	9.14E+00
Pu-241	1.64E+02
Pu-242	6.57E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT391P

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
POC / 55 gallon	22.7	0.0	0.0	0.0	0.0	22.7

As-Generated	Stored	22.7	Projected	0.0	Total	22.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	22.7	0.0	0.0	0.0	0.0	22.7

Final Form	Stored	22.7	Projected	0.0	Total	22.7

TWBIR ID: RF-TT391P

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Unpulverized magnesium oxide sand and crucible processed for shipment to the SRS. The SRS project was cancelled, and this IDC is now considered waste."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT392P

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W116	**Handling**	CH	**Stream Name**	"Sand, Slag, and Crucible/TRU"			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5129

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	26.82	5.73	57.28
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	25.48	4.30	45.83
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.22		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Materials Production/Repackaging

TRUCON Codes

122

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.44E+00
Pu-238	1.33E+00
Pu-239	4.24E+01
Pu-240	9.66E+00
Pu-241	1.13E+02
Pu-242	6.19E-04
U-234	7.91E-07
U-235	2.55E-08
U-238	2.26E-10

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT392P

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
POC / 55 gallon	65.1	0.0	0.0	0.0	0.0	65.1

As-Generated	Stored	Projected	Total
	65.1	0.0	65.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	65.2	0.0	0.0	0.0	0.0	65.2

Final Form	Stored	Projected	Total
	65.2	0.0	65.2

TWBIR ID: RF-TT392P

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Unpulverized magnesium oxide sand, calcium fluoride slag, and magnesium oxide crucible processed for shipment to the SRS."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT393R

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W116	**Handling**	CH	**Stream Name**	"Sand, Slag, and Crucible/TRU"			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S5129

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	51.47	17.18	76.85
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	45.01	15.28	93.56
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.22		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Materials Recovery/Repackaging

TRUCON Codes

130

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.14E+00
Np-237	1.03E-06
Pu-238	1.18E+00
Pu-239	3.37E+01
Pu-240	7.75E+00
Pu-241	9.56E+01
Pu-242	4.91E-04
U-234	1.38E-05
U-235	4.46E-07
U-238	3.94E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT393R

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
8802 Can	0.0	0.0	0.0	0.0	0.0	0.0
POC / 55 gallon	12.3	0.0	0.0	0.0	0.0	12.3

As-Generated	Stored	12.3	Projected	0.0	Total	12.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	12.5	0.0	0.0	0.0	0.0	12.5

Final Form	Stored	12.5	Projected	0.0	Total	12.5

TWBIR ID: RF-TT393R

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Repackaged/blended sand, slag, and crucible heel. These materials may be blended with reagent magnesium oxide sand. Materials which may become IDC 393R for disposal include sand, slag, and crucible heel (IDC 393), ground/blended sand, slag, and crucible heel (IDC 393P), and SS&C heel repack/processed (IDC 393R)."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT394P

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W116	**Handling**	CH	**Stream Name**	"Sand, Slag, and Crucible/TRU"			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5129

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	26.82	5.73	57.28
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	25.48	4.30	45.83
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.22		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Materials Production/Repackaging

TRUCON Codes

122

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.13E+01
Np-237	8.81E-05
Pu-238	1.46E+00
Pu-239	5.23E+01
Pu-240	1.11E+01
Pu-241	1.38E+02
Pu-242	5.89E-04
U-234	1.14E-05
U-235	3.67E-07
U-238	3.25E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT394P

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
POC / 55 gallon	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	0.6	Projected	0.0	Total	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	0.6	Projected	0.0	Total	0.6

TWBIR ID: RF-TT394P

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Magnesium oxide sand processed for shipment to the SRS. The SRS project was cancelled, and this IDC is now considered waste. The sand will contain small particles of calcium fluoride slag and small pieces of magnesium oxide crucible."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT395P

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W116	**Handling**	CH	**Stream Name**	"Sand, Slag, and Crucible/TRU"			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5129

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	19.09	19.09	19.09
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	28.64	28.64	28.64
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.22		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Materials Production/Repackaging

TRUCON Codes

122

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.13E+01
Np-237	8.81E-05
Pu-238	1.46E+00
Pu-239	5.23E+01
Pu-240	1.11E+01
Pu-241	1.38E+02
Pu-242	5.89E-04
U-234	1.14E-05
U-235	3.67E-07
U-238	3.25E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT395P

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
POC / 55 gallon	0.8	0.0	0.0	0.0	0.0	0.8

As-Generated	Stored	0.8	Projected	0.0	Total	0.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	0.8	0.0	0.0	0.0	0.0	0.8

Final Form	Stored	0.8	Projected	0.0	Total	0.8

TWBIR ID: RF-TT395P

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Unpulverized calcium fluoride slag and magnesium oxide crucible processed for shipment to the SRS. The SRS project was cancelled, and this IDC is now considered waste."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT396P

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W116	**Handling**	CH	**Stream Name**	"Sand, Slag, and Crucible/TRU"			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5129

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	26.82	5.73	57.28
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	25.48	4.30	45.83
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.22		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Materials Production/Repackaging

TRUCON Codes

122

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.13E+01
Np-237	8.81E-05
Pu-238	1.46E+00
Pu-239	5.23E+01
Pu-240	1.11E+01
Pu-241	1.38E+02
Pu-242	5.89E-04
U-234	1.14E-05
U-235	3.67E-07
U-238	3.25E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT396P

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
POC / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: RF-TT396P

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Pulverized calcium fluoride slag processed for shipment to the SRS. The SRS project was cancelled, and this IDC is now considered waste."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT398P

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W116	**Handling**	CH	**Stream Name**	"Sand, Slag, and Crucible/TRU"			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5129

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	21.60	8.12	45.35
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	22.49	9.07	45.35
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	0.96	0.96	0.96
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.22		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Materials Recovery/Repackaging

TRUCON Codes

122

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.80E+00
Pu-238	1.22E+00
Pu-239	3.97E+01
Pu-240	8.98E+00
Pu-241	1.07E+02
Pu-242	5.44E-04
U-234	2.12E-07
U-235	6.82E-09
U-238	6.04E-11

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT398P

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
POC / 55 gallon	43.1	0.0	0.0	0.0	0.0	43.1

As-Generated	Stored	Projected	Total
	43.1	0.0	43.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	43.1	0.0	0.0	0.0	0.0	43.1

Final Form	Stored	Projected	Total
	43.1	0.0	43.1

TWBIR ID: RF-TT398P

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Pulverized sand, slag, and crucible processed for shipment to the SRS. The SRS project was cancelled, and this IDC is now considered waste. This waste stream may also include ground/blended sand, slag and crucible consisting of repackaged pulverized material or fines. Sand, slag, and crucible materials which may become IDC 398P for disposal include reburned sand, slag, and crucible sweepings (IDC 387); ground/blended reburned sand, slag, and crucible sweepings (IDC 387P); ground/blended slag (IDC 390P); ground/blended sand and crucible (IDC 391P); ground/blended sand, slag, and crucible (IDC 392P); magnesium oxide sand (IDC 394); ground/blended magnesium oxide sand (IDC 394P); ground/blended slag and crucible (IDC 395P); pulverized slag (IDC 396); ground/blended slag (IDC 396P); pulverized sand, slag, and crucible (IDC 398); and ground/blended sand, slag, and crucible (IDC 398P)."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT398R

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W116	**Handling**	CH	**Stream Name**	"Sand, Slag, and Crucible/TRU"			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5129

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	29.06	5.73	64.92
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	24.80	8.12	59.67
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.22		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Materials Recovery/Repackaging

TRUCON Codes

122

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.38E+01
Np-237	3.05E-04
Pu-238	1.41E+00
Pu-239	3.96E+01
Pu-240	8.98E+00
Pu-241	1.29E+02
Pu-242	6.83E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT398R

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
POC / 55 gallon	69.7	0.0	0.0	0.0	0.0	69.7

As-Generated	Stored	Projected	Total
	69.7	0.0	69.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	69.8	0.0	0.0	0.0	0.0	69.8

Final Form	Stored	Projected	Total
	69.8	0.0	69.8

TWBIR ID: RF-TT398R

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Repackaged/blended sand slag and crucible consisting of unpulverized material or unpulverized material mixed with pulverized material or fines. Any sand, slag, and crucible IDC may become IDC 398R for disposal."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT411R

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W103	**Handling**	CH	**Stream Name**	Miscellaneous Plutonium Recovery Byproduct/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Salt	**Waste Matrix Code**	S3141

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	11.20	3.34	35.80
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	6.51	5.73	11.46
Other Inorganic Materials	18.41	4.30	44.39
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	1.27	1.15	2.29
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.14		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Materials Recovery/Repackaging

TRUCON Codes

124

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.69E+00
Pu-238	1.14E+00
Pu-239	4.09E+01
Pu-240	9.26E+00
Pu-241	8.25E+01
Pu-242	7.25E-04
U-234	3.02E-06
U-235	9.75E-08
U-238	8.62E-10

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT411R

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
POC / 55 gallon	7.7	0.0	0.0	0.0	0.0	7.7

As-Generated	Stored	7.7	Projected	0.0	Total	7.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
55 Gallon POCs	7.7	0.0	0.0	0.0	0.0	7.7

Final Form	Stored	7.7	Projected	0.0	Total	7.7

TWBIR ID: RF-TT411R

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Repackaged spent salt from the ER processes. Salts which become IDC 411R for disposal include electrorefining salt, first use (IDC 363), electrorefining salt, second use (IDC 364), electrorefining salt – final disposition (IDC 411), impure salt from cell clean-out (IDC 413), reburned salt from cell cleanout (IDC 426), stabilized electrorefining salt (IDC 411X), and electrorefining salt packaged for LANL (IDC 473). This output may also contain some broken or irregularly shaped pieces of magnesium oxide ceramic crucible coated with pyrochemical salt."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT429R

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W103	**Handling**	CH	**Stream Name**	Miscellaneous Plutonium Recovery Byproduct/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Salt	**Waste Matrix Code**	S3141

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	9.12	6.54	12.89
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	5.74	5.73	5.82
Other Inorganic Materials	11.94	6.25	26.25
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	1.15	1.15	1.15
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.18		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Materials Recovery/Repackaging

TRUCON Codes

124

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.57E+01
Np-237	5.08E-04
Pu-238	9.06E-01
Pu-239	3.50E+01
Pu-240	7.79E+00
Pu-241	5.32E+01
Pu-242	3.93E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT429R

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
POC / 55 gallon	2.1	0.0	0.0	0.0	0.0	2.1

As-Generated	Stored	Projected	Total
	2.1	0.0	2.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	2.1	0.0	0.0	0.0	0.0	2.1

Final Form	Stored	Projected	Total
	2.1	0.0	2.1

TWBIR ID: RF-TT429R

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Repackaged spent salt from the MSE scrub alloy process including materials from failed production runs. Salts which become IDC 429R for disposal include MSE, unknown percent unpulverized (IDC 405), MSE, unknown percent pulverized (IDC 406), MSE, 8 percent unpulverized (IDC 407), MSE, 8 percent pulverized (IDC 408), MSE, 30 percent unpulverized (IDC 409), MSE, 30 percent pulverized (IDC 410), plutonium chloride mixed salt (IDC 415), MSE salt packaged for LANL (IDC 418), stabilized scrub alloy spent salt (IDC 429X), and scrub alloy spent salt (IDC 429). This output may also contain some broken or irregularly shaped pieces of magnesium oxide ceramic crucible coated with pyrochemical salt."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT433X

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W103	**Handling**	CH	**Stream Name**	Miscellaneous Plutonium Recovery Byproduct/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Salt	**Waste Matrix Code**	S3141

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	17.34	9.07	28.64
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	31.82	22.44	43.44
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.22		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Materials Recovery/Repackaging

TRUCON Codes

124

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.98E+01
Pu-238	8.37E-01
Pu-239	3.35E+01
Pu-240	6.74E+00
Pu-241	7.05E+01
Pu-242	3.24E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT433X

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
POC / 55 gallon	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	Projected	Total
	0.6	0.0	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	Projected	Total
	0.6	0.0	0.6

TWBIR ID: RF-TT433X

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Spent salt from the MSE scrub alloy process that used dicesium salt. Other salts, which become IDC 433X for disposal, include MSE spent dicesium salt (IDC 427), scrub alloy spent dicesium salt (IDC 433), free calcium containing spent salt (IDC 434), and cerium/calcium spent salt (IDC 435). Salts which also may become IDC 433X for disposal include salt from bad DOR run (IDC 365), MSE Salt, Ca, Zn, K (IDC 404), Gibson salt (IDC 412), DOR salt – unoxidized calcium (IDC 414), Zn-Mg alloy metal (IDC 416) and DOR salt oxidized calcium (IDC 454)."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT436R

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W103	**Handling**	CH	**Stream Name**	Miscellaneous Plutonium Recovery Byproduct/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Salt	**Waste Matrix Code**	S3141

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	11.25	7.16	21.48
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	7.77	5.73	17.18
Other Inorganic Materials	14.32	8.59	32.46
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	1.56	1.15	3.44
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.22		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Materials Recovery/Repackaging

TRUCON Codes

124

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.19E+01
Np-237	4.47E-04
Pu-238	1.07E+00
Pu-239	3.88E+01
Pu-240	8.78E+00
Pu-241	1.20E+02
Pu-242	5.56E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT436R

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
POC / 55 gallon	7.1	0.0	0.0	0.0	0.0	7.1

As-Generated	Stored	Projected	Total
	7.1	0.0	7.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	7.1	0.0	0.0	0.0	0.0	7.1

Final Form	Stored	Projected	Total
	7.1	0.0	7.1

TWBIR ID: RF-TT436R

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This output consists of repackaged Salt Residue Project material including any salt historically generated by pyrochemistry operations that contains less than 6 percent by weight moisture. This output may also contain some broken or irregularly shaped pieces of magnesium oxide ceramic crucible coated with pyrochemical salt.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RF-TT454X

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W103	**Handling**	CH	**Stream Name**	Miscellaneous Plutonium Recovery Byproduct/TRU			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Salt	**Waste Matrix Code**	S3141

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	11.20	3.34	35.80
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	6.51	5.73	11.46
Other Inorganic Materials	18.41	4.30	44.39
Cellulosics	167.07	167.07	167.07
Rubber	0.00	0.00	0.00
Plastics	1.27	1.15	2.29
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.14		
Packaging Material, Plastic	23.87		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	N
PCBs:	N
Source:	Materials Recovery/Repackaging

TRUCON Codes

124

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.19E+01
Np-237	4.47E-04
Pu-238	1.07E+00
Pu-239	3.88E+01
Pu-240	8.78E+00
Pu-241	1.20E+02
Pu-242	5.56E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT454X

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
POC / 55 gallon	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	Projected	Total
	0.4	0.0	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon POCs	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	Projected	Total
	0.4	0.0	0.4

TWBIR ID: RF-TT454X

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Spent salt from the direct oxide reduction (DOR) process. Other salts which become IDC 454X for disposal include salt from bad DOR run (IDC 365), MSE salt, Ca, Zn, K (IDC 404), Gibson salt (IDC 412), DOR salt-unoxidized calcium (IDC 414), Zn-Mg alloy metal (IDC 416), Pu chloride mixed salt (IDC 415) and DOR salt – oxidized calcium (IDC 454)"
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-T101

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W236	**Handling**	CH	**Stream Name**	202A Bldg TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	619.28	0.00	0.00
Aluminum-Base Metal/Alloys	122.62	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	41.43	0.00	0.00
Cellulosics	64.29	0.00	0.00
Rubber	25.55	0.00	0.00
Plastics	70.99	0.00	0.00
Solidified, Inorganic Matrix	10.39	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	10.17	0.00	0.00
Packaging Material, Steel	141.00		
Packaging Material, Plastic	21.43		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	4.08E-02
Cs-137	4.42E-02
Pu-238	4.33E-02
Pu-239	1.54E+00
Pu-240	3.46E-01
Pu-241	6.98E+00
Pu-242	2.08E-05
Sr-90	4.13E-02
U-234	3.51E-13
U-235	1.57E-14
U-238	3.42E-13
Y-90	4.13E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T101

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	320.9	0.0	0.0	0.0	0.0	320.9
Standard Waste Box	247.0	0.0	0.0	0.0	0.0	247.0

As-Generated — Stored: 567.9 — Projected: 0.0 — Total: 567.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	320.9	0.0	0.0	0.0	0.0	320.9
Standard Waste Box	247.0	0.0	0.0	0.0	0.0	247.0

Final Form — Stored: 567.9 — Projected: 0.0 — Total: 567.9

TWBIR ID: RL-T101

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
Waste Stream Source Description	This waste stream consists of contact-handled TRU waste from the Fuel Reprocessing Plant using the Plutonium/Uranium Solvent Extraction Process.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights of final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights of final waste form are unknown.

TWBIR ID: RL-T102

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W237	**Handling**	CH	**Stream Name**	202-AL Bldg TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	553.47	0.00	0.00
Aluminum-Base Metal/Alloys	87.78	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	42.97	0.00	0.00
Cellulosics	104.11	0.00	0.00
Rubber	44.58	0.00	0.00
Plastics	106.21	0.00	0.00
Solidified, Inorganic Matrix	14.90	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	17.83	0.00	0.00
Packaging Material, Steel	131.22		
Packaging Material, Plastic	36.66		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	5.65E-04
Cs-137	6.15E-04
Pu-238	1.56E-06
Pu-239	5.58E-05
Pu-240	1.25E-05
Pu-241	2.52E-04
Pu-242	7.52E-10
Sr-90	5.73E-04
U-234	5.74E-09
U-235	2.57E-10
U-238	5.57E-09
Y-90	5.73E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T102

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	198.2	0.0	0.0	0.0	0.0	198.2
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated	Stored	200.1	Projected	0.0	Total	200.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	198.2	0.0	0.0	0.0	0.0	198.2
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	200.1	Projected	0.0	Total	200.1

TWBIR ID: RL-T102

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
Waste Stream Source Description	This waste stream consists of contact-handled TRU waste from the laboratory at the Fuel Reprocessing Plant.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified waste in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights of final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified waste in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights of final waste form are unknown.

TWBIR ID: RL-T103

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W238	**Handling**	CH	**Stream Name**	216-Z-9 Retrieved Soil			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Soils	**Waste Matrix Code**	S4100

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	324.00	162.00	324.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.05E-01
Ba-137m	2.68E-03
Cs-137	2.91E-03
Pu-238	2.99E-01
Pu-239	3.84E+00
Pu-240	8.53E-01
Pu-241	2.12E+01
Pu-242	4.93E-05
Sr-90	2.67E-03
Tc-99	5.73E-07
Y-90	2.67E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T103

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	99.6	0.0	0.0	0.0	0.0	99.6

As-Generated	Stored	99.6	Projected	0.0	Total	99.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	99.6	0.0	0.0	0.0	0.0	99.6

Final Form	Stored	99.6	Projected	0.0	Total	99.6

TWBIR ID: RL-T103

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Waste consists of soil contaminated with TRU solutions. Soil is contained in a 0.3 mm polyethylene bag within an inner container. The outer container is a standard 55-gallon drum. Vermiculite is a packing material between the inner and outer container.
Waste Stream Source Description	This waste stream consists of TRU waste from the retrieved contaminated soil from the 216-Z-9 Trench. Soil is contaminated by TRU liquid waste.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights of final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights of final waste form are unknown.

TWBIR ID: RL-T104

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W239	**Handling**	CH	**Stream Name**	221-T TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	552.00	0.00	0.00
Aluminum-Base Metal/Alloys	87.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	43.00	0.00	0.00
Cellulosics	105.00	0.00	0.00
Rubber	45.00	0.00	0.00
Plastics	107.00	0.00	0.00
Solidified, Inorganic Matrix	15.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	18.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	7.92E-05
Cs-137	8.61E-05
Pu-238	8.95E-05
Pu-239	3.19E-03
Pu-240	7.17E-04
Pu-241	1.45E-02
Pu-242	4.32E-08
Sr-90	8.03E-05
U-234	6.53E-09
U-235	2.92E-10
U-238	6.34E-09
Y-90	8.03E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T104

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	5.0	0.0	0.0	0.0	0.0	5.0

As-Generated	Stored	Projected	Total
	5.0	0.0	5.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	5.0	0.0	0.0	0.0	0.0	5.0

Final Form	Stored	Projected	Total
	5.0	0.0	5.0

TWBIR ID: RL-T104

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.
Waste Stream Source Description	This waste stream consists of TRU waste from the T Plant Fuel Reprocessing Plant.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights of final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights of final waste form are unknown.

TWBIR ID: RL-T105

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W240	**Handling**	CH	**Stream Name**	222-S TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	621.46	0.00	0.00
Aluminum-Base Metal/Alloys	123.77	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	41.38	0.00	0.00
Cellulosics	62.98	0.00	0.00
Rubber	24.92	0.00	0.00
Plastics	69.82	0.00	0.00
Solidified, Inorganic Matrix	10.24	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	9.92	0.00	0.00
Packaging Material, Steel	141.33		
Packaging Material, Plastic	20.93		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.70E-04
Ba-137m	4.47E-04
Cs-137	4.86E-04
Pu-238	2.11E-03
Pu-239	7.51E-02
Pu-240	1.68E-02
Pu-241	3.39E-01
Pu-242	1.01E-06
Sr-90	4.53E-04
U-233	1.17E-02
U-234	5.57E-07
U-235	5.72E-08
U-238	6.16E-10
Y-90	4.53E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T105

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	44.3	0.0	0.0	0.0	0.0	44.3
Standard Waste Box	36.1	0.0	0.0	0.0	0.0	36.1

As-Generated	Stored	80.4	Projected	0.0	Total	80.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	44.3	0.0	0.0	0.0	0.0	44.3
Standard Waste Box	36.1	0.0	0.0	0.0	0.0	36.1

Final Form	Stored	80.4	Projected	0.0	Total	80.4

TWBIR ID: RL-T105

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
Waste Stream Source Description	This waste stream consists of TRU waste from the Chemical Separation Areas Operations Laboratory.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified waste in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights of final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified waste in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights of final waste form are unknown.

TWBIR ID: RL-T106

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W241	**Handling**	CH	**Stream Name**	233-S TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	552.00	0.00	0.00
Aluminum-Base Metal/Alloys	87.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	43.00	0.00	0.00
Cellulosics	105.00	0.00	0.00
Rubber	45.00	0.00	0.00
Plastics	107.00	0.00	0.00
Solidified, Inorganic Matrix	15.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	18.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	8.08E-05
Cs-137	8.80E-05
Pu-238	2.04E-02
Pu-239	7.28E-01
Pu-240	1.63E-01
Pu-241	3.30E+00
Pu-242	9.80E-06
Sr-90	8.19E-05
Y-90	8.19E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T106

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	8.1	0.0	0.0	0.0	0.0	8.1

As-Generated	Stored	8.1	Projected	0.0	Total	8.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	8.1	0.0	0.0	0.0	0.0	8.1

Final Form	Stored	8.1	Projected	0.0	Total	8.1

TWBIR ID: RL-T106

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.
Waste Stream Source Description	This waste stream consists of TRU waste from the REDOX Fuel Reprocessing Facility.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T107

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W242	**Handling**	CH	**Stream Name**	234-5Z TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	633.79	0.00	0.00
Aluminum-Base Metal/Alloys	130.30	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	41.10	0.00	0.00
Cellulosics	55.51	0.00	0.00
Rubber	21.36	0.00	0.00
Plastics	63.22	0.00	0.00
Solidified, Inorganic Matrix	9.40	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	8.48	0.00	0.00
Packaging Material, Steel	143.16		
Packaging Material, Plastic	18.07		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.42E-04
Ba-137m	5.54E-03
Cs-137	6.03E-03
Pu-238	1.58E+01
Pu-239	2.65E+00
Pu-240	5.92E-01
Pu-241	1.19E+01
Pu-242	3.57E-05
Sr-90	5.62E-03
Th-232	1.01E-08
U-233	6.76E-05
U-234	1.37E-04
U-235	3.07E-06
U-238	5.70E-05

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T107

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2901.4	0.0	0.0	0.0	0.0	2901.4
Standard Waste Box	3254.7	0.0	0.0	0.0	0.0	3254.7

As-Generated	Stored	6156.1	Projected	0.0	Total	6156.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2901.4	0.0	0.0	0.0	0.0	2901.4
Standard Waste Box	3254.7	0.0	0.0	0.0	0.0	3254.7

Final Form	Stored	6156.1	Projected	0.0	Total	6156.1

TWBIR ID: RL-T107

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Y-90	5.62E-03

Waste Stream Description

Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description

This waste stream consists of TRU waste from the Plutonium Finishing Plant.

Current Container Comments

N/A

EPA Comments

N/A

Management Comments

Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.

Acceptance Comments

The contact-handled TRU waste from Building 2345Z was reported in Waste Nos. RL-T146 and RL-T150 in Revision 1 of the WTWBIR. This waste is reported in RL-T107 in Revision 2; RL-T146 and RL-T150 have been deleted in Revision 2.

Final Form Comments

Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T108

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W243	**Handling**	CH	**Stream Name**	Misc 200 West Area TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	700.02	0.00	0.00
Aluminum-Base Metal/Alloys	165.36	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	39.56	0.00	0.00
Cellulosics	15.44	0.00	0.00
Rubber	4.62	0.00	0.00
Plastics	27.78	0.00	0.00
Solidified, Inorganic Matrix	4.86	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.78	0.00	0.00
Packaging Material, Steel	153.01		
Packaging Material, Plastic	2.75		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	9.32E-05
Cs-137	1.02E-04
Pu-238	8.72E-02
Pu-239	4.82E-02
Pu-240	1.08E-02
Pu-241	2.18E-01
Pu-242	6.51E-07
Sr-90	9.45E-05
U-234	1.52E-07
U-235	6.79E-09
U-238	1.48E-07
Y-90	9.45E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T108

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	8.3	0.0	0.0	0.0	0.0	8.3
Standard Waste Box	184.3	0.0	0.0	0.0	0.0	184.3

As-Generated	Stored	192.6	Projected	0.0	Total	192.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	8.3	0.0	0.0	0.0	0.0	8.3
Standard Waste Box	184.3	0.0	0.0	0.0	0.0	184.3

Final Form	Stored	192.6	Projected	0.0	Total	192.6

TWBIR ID: RL-T108

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixtures, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
Waste Stream Source Description	This waste stream consists of TRU waste from the 200 Area Waste Tank Farms and other miscellaneous sources in the Chemical Separations Area.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights of final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T109

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W244	**Handling**	CH	**Stream Name**	308 Bldg TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	641.43	0.00	0.00
Aluminum-Base Metal/Alloys	134.35	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	40.92	0.00	0.00
Cellulosics	50.89	0.00	0.00
Rubber	19.15	0.00	0.00
Plastics	59.13	0.00	0.00
Solidified, Inorganic Matrix	8.87	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	7.59	0.00	0.00
Packaging Material, Steel	144.30		
Packaging Material, Plastic	16.30		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.71E-03
Ba-137m	4.97E-04
Cs-137	5.41E-04
Pu-238	1.75E-02
Pu-239	6.24E-01
Pu-240	1.40E-01
Pu-241	2.82E+00
Pu-242	8.43E-06
Sr-90	5.04E-04
U-233	5.54E-03
U-234	1.18E-03
U-235	1.57E-05
U-238	4.03E-04
Y-90	5.04E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T109

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	8.3	0.0	0.0	0.0	0.0	8.3
Standard Waste Box	11.4	0.0	0.0	0.0	0.0	11.4

As-Generated	Stored	19.7	Projected	0.0	Total	19.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	8.3	0.0	0.0	0.0	0.0	8.3
Standard Waste Box	11.4	0.0	0.0	0.0	0.0	11.4

Final Form	Stored	19.7	Projected	0.0	Total	19.7

TWBIR ID: RL-T109

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
Waste Stream Source Description	This waste stream consists of TRU waste from the Fuels Development Laboratory.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Wastes in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reductin is projected. Upper and lower weights for final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T110

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W245	**Handling**	CH	**Stream Name**	324, 325 and 327 Bldg Oper TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	592.46	0.00	0.00
Aluminum-Base Metal/Alloys	108.42	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	42.06	0.00	0.00
Cellulosics	80.52	0.00	0.00
Rubber	33.30	0.00	0.00
Plastics	85.35	0.00	0.00
Solidified, Inorganic Matrix	12.23	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	13.29	0.00	0.00
Packaging Material, Steel	137.01		
Packaging Material, Plastic	27.64		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.62E-03
Ba-137m	9.67E-03
Cs-137	1.05E-02
Pu-238	1.34E-01
Pu-239	2.86E+00
Pu-240	6.41E-01
Pu-241	1.30E+01
Pu-242	3.86E-05
Sr-90	9.80E-03
Th-232	5.17E-06
U-233	2.30E-04
U-234	2.76E-03
U-235	1.33E-04
U-238	3.86E-04

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T110

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	364.8	0.0	0.0	0.0	0.0	364.8
Standard Waste Box	129.2	0.0	0.0	0.0	0.0	129.2

As-Generated	Stored	Projected	Total
	494.0	0.0	494.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	364.8	0.0	0.0	0.0	0.0	364.8
Standard Waste Box	129.2	0.0	0.0	0.0	0.0	129.2

Final Form	Stored	Projected	Total
	494.0	0.0	494.0

TWBIR ID: RL-T110

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Y-90	9.80E-03

Waste Stream Description

Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description

This waste stream consists of contact-handled TRU waste from the Chemical Materials Engineering Laboratory and Post Irradiation Test Laboratory.

Current Container Comments

N/A

EPA Comments

N/A

Management Comments

Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.

Acceptance Comments

The contact-handled TRU waste from Building 327C was reported as Waste No. RL-T111A in Revision 1 of the WTWBIR. RL-T111A has been deleted in Revision 2 of the WTWBIR.

Final Form Comments

Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T112

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W246	**Handling**	CH	**Stream Name**	340 Bldg Oper and R&D TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	650.16	0.00	0.00
Aluminum-Base Metal/Alloys	138.97	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	40.72	0.00	0.00
Cellulosics	45.61	0.00	0.00
Rubber	16.62	0.00	0.00
Plastics	54.46	0.00	0.00
Solidified, Inorganic Matrix	8.27	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	6.58	0.00	0.00
Packaging Material, Steel	145.59		
Packaging Material, Plastic	14.28		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.42E-01
Ba-137m	7.80E-04
Cs-137	8.48E-04
Pu-238	2.02E-01
Pu-239	1.36E+00
Pu-240	3.04E-01
Pu-241	6.15E+00
Pu-242	1.83E-05
Sr-90	7.91E-04
Th-232	1.95E-06
U-233	5.71E-05
U-234	5.34E-03
U-235	3.71E-04
U-238	2.32E-04

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T112

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	50.3	0.0	0.0	0.0	0.0	50.3
Standard Waste Box	87.4	0.0	0.0	0.0	0.0	87.4

As-Generated	Stored	137.7	Projected	0.0	Total	137.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	50.3	0.0	0.0	0.0	0.0	50.3
Standard Waste Box	87.4	0.0	0.0	0.0	0.0	87.4

Final Form	Stored	137.7	Projected	0.0	Total	137.7

TWBIR ID: RL-T112

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Y-90	7.91E-04

Waste Stream Description

Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description

This waste stream consists of TRU waste from the Retention and Neutralization Facility.

Current Container Comments

N/A

EPA Comments

N/A

Management Comments

Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.

Acceptance Comments

N/A

Final Form Comments

Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T113

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W247	**Handling**	CH	**Stream Name**	100 Areas and 200 Areas R&D TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	641.29	0.00	0.00
Aluminum-Base Metal/Alloys	134.27	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	40.92	0.00	0.00
Cellulosics	50.98	0.00	0.00
Rubber	19.19	0.00	0.00
Plastics	59.21	0.00	0.00
Solidified, Inorganic Matrix	8.88	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	7.61	0.00	0.00
Packaging Material, Steel	144.27		
Packaging Material, Plastic	16.34		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	1.86E-04
Cs-137	2.02E-04
Pu-238	1.26E-03
Pu-239	1.44E-02
Pu-240	3.23E-03
Pu-241	6.52E-02
Pu-242	1.95E-07
Sr-90	1.89E-04
Y-90	1.89E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T113

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	18.1	0.0	0.0	0.0	0.0	18.1
Standard Waste Box	24.7	0.0	0.0	0.0	0.0	24.7

As-Generated	Stored	42.8	Projected	0.0	Total	42.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	18.1	0.0	0.0	0.0	0.0	18.1
Standard Waste Box	24.7	0.0	0.0	0.0	0.0	24.7

Final Form	Stored	42.8	Projected	0.0	Total	42.8

TWBIR ID: RL-T113

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
Waste Stream Source Description	This waste stream consists of TRU waste from the Biological Laboratory, Radioactive Particle Research Laboratory, and other R&D Sources in the Reactor and Chemical Separation Areas.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T114

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W248	**Handling**	CH	**Stream Name**	209 E Bldg TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	567.01	0.00	0.00
Aluminum-Base Metal/Alloys	94.95	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	42.65	0.00	0.00
Cellulosics	95.92	0.00	0.00
Rubber	40.66	0.00	0.00
Plastics	98.97	0.00	0.00
Solidified, Inorganic Matrix	13.97	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	16.25	0.00	0.00
Packaging Material, Steel	133.23		
Packaging Material, Plastic	33.53		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	2.39E-03
Cs-137	2.60E-03
Pu-238	1.34E-01
Pu-239	4.78E+00
Pu-240	1.07E+00
Pu-241	2.16E+01
Pu-242	6.45E-05
Sr-90	2.43E-03
Y-90	2.43E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T114

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	17.7	0.0	0.0	0.0	0.0	17.7
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated — **Stored** 19.6 — **Projected** 0.0 — **Total** 19.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	17.7	0.0	0.0	0.0	0.0	17.7
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

Final Form — **Stored** 19.6 — **Projected** 0.0 — **Total** 19.6

TWBIR ID: RL-T114

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
Waste Stream Source Description	This waste stream consists of TRU waste from the Critical Mass Laboratory.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T115

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W249	**Handling**	CH	**Stream Name**	231-Z Bldg TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	677.55	0.00	0.00
Aluminum-Base Metal/Alloys	153.47	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	40.08	0.00	0.00
Cellulosics	29.04	0.00	0.00
Rubber	8.71	0.00	0.00
Plastics	39.80	0.00	0.00
Solidified, Inorganic Matrix	6.40	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	3.39	0.00	0.00
Packaging Material, Steel	149.67		
Packaging Material, Plastic	7.95		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.53E-01
Ba-137m	1.74E-04
Cs-137	1.89E-04
Pu-238	8.31E-02
Pu-239	1.20E+00
Pu-240	2.69E-01
Pu-241	6.08E+00
Pu-242	1.62E-05
Sr-90	1.73E-04
Tc-99	3.96E-08
Th-232	4.35E-08
U-234	4.03E-04
U-235	1.14E-06
U-238	4.45E-05

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T115

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	193.2	0.0	0.0	0.0	0.0	193.2
Standard Waste Box	832.2	0.0	0.0	0.0	0.0	832.2

As-Generated	Stored	Projected	Total
	1025.4	0.0	1025.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	193.2	0.0	0.0	0.0	0.0	193.2
Standard Waste Box	832.2	0.0	0.0	0.0	0.0	832.2

Final Form	Stored	Projected	Total
	1025.4	0.0	1025.4

TWBIR ID: RL-T115

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Y-90	1.73E-04

Waste Stream Description

Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description

This waste stream consists of TRU waste from the Materials Engineering Laboratory.

Current Container Comments

N/A

EPA Comments

N/A

Management Comments

Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.

Acceptance Comments

N/A

Final Form Comments

Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T116

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W250	**Handling**	CH	**Stream Name**	303C Bldg TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	552.00	0.00	0.00
Aluminum-Base Metal/Alloys	87.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	43.00	0.00	0.00
Cellulosics	105.00	0.00	0.00
Rubber	45.00	0.00	0.00
Plastics	107.00	0.00	0.00
Solidified, Inorganic Matrix	15.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	18.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	8.71E-01
Cs-137	9.49E-01
Pu-238	3.92E-01
Pu-239	1.39E+01
Pu-240	3.12E+00
Pu-241	6.31E+01
Pu-242	1.88E-04
Sr-90	8.84E-01
Th-232	3.21E-03
U-233	4.27E+00
U-234	5.10E-03
U-235	5.24E-04
U-238	5.64E-06
Y-90	8.84E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T116

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	11.0	0.0	0.0	0.0	0.0	11.0

As-Generated	Stored	11.0	Projected	0.0	Total	11.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	11.0	0.0	0.0	0.0	0.0	11.0

Final Form	Stored	11.0	Projected	0.0	Total	11.0

TWBIR ID: RL-T116

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.
Waste Stream Source Description	This waste stream consists of TRU waste from the Material Evaluation Laboratory.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T118

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W251	**Handling**	CH	**Stream Name**	300 Area R&D TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	572.20	0.00	0.00
Aluminum-Base Metal/Alloys	97.69	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	42.53	0.00	0.00
Cellulosics	92.78	0.00	0.00
Rubber	39.16	0.00	0.00
Plastics	96.19	0.00	0.00
Solidified, Inorganic Matrix	13.62	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	15.65	0.00	0.00
Packaging Material, Steel	134.00		
Packaging Material, Plastic	32.33		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.45E-01
Ba-137m	1.40E-03
Cs-137	1.52E-03
Pu-238	1.32E-01
Pu-239	5.82E-01
Pu-240	1.30E-01
Pu-241	2.63E+00
Pu-242	7.85E-06
Sr-90	1.42E-03
Th-232	1.26E-05
U-233	9.48E-05
U-234	3.18E-03
U-235	6.33E-05
U-238	6.00E-04

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T118

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	227.8	0.0	0.0	0.0	0.0	227.8
Standard Waste Box	34.2	0.0	0.0	0.0	0.0	34.2

As-Generated	Stored	262.0	Projected	0.0	Total	262.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	227.8	0.0	0.0	0.0	0.0	227.8
Standard Waste Box	34.2	0.0	0.0	0.0	0.0	34.2

Final Form	Stored	262.0	Projected	0.0	Total	262.0

TWBIR ID: RL-T118

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Y-90	1.42E-03

Waste Stream Description

Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description

This waste stream consists of contact-handled TRU waste from the Radiological Calibrations Laboratory, Chemical Engineering Building, Radiochemistry Building laboratory and hot cells, and cesium recovery facility of the Radiochemistry Building, and Radioanalytical Laboratory.

Current Container Comments

N/A

EPA Comments

N/A

Management Comments

Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.

Acceptance Comments

The contact-handled TRU waste from Building 318 was reported as Waste No. RL-T117 in Revision 1 of the WTWBIR. This waste is reported in RL-T118 in Revision 2; RL-T117 has been deleted.

Final Form Comments

Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T120

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W252	**Handling**	CH	**Stream Name**	TRU Construction Debris			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	655.24	0.00	0.00
Aluminum-Base Metal/Alloys	141.66	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	40.60	0.00	0.00
Cellulosics	42.54	0.00	0.00
Rubber	15.16	0.00	0.00
Plastics	51.74	0.00	0.00
Solidified, Inorganic Matrix	7.93	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	5.99	0.00	0.00
Packaging Material, Steel	146.35		
Packaging Material, Plastic	13.11		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.93E-02
Ba-137m	4.96E-04
Cs-137	5.40E-04
Pu-238	2.71E-02
Pu-239	3.37E-01
Pu-240	7.49E-02
Pu-241	1.81E+00
Pu-242	4.45E-06
Sr-90	4.92E-04
Tc-99	1.15E-07
U-234	4.22E-09
U-235	1.89E-10
U-238	4.11E-09
Y-90	4.92E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T120

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	44.5	0.0	0.0	0.0	0.0	44.5
Standard Waste Box	89.3	0.0	0.0	0.0	0.0	89.3

As-Generated	Stored	133.8	Projected	0.0	Total	133.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	44.5	0.0	0.0	0.0	0.0	44.5
Standard Waste Box	89.3	0.0	0.0	0.0	0.0	89.3

Final Form	Stored	133.8	Projected	0.0	Total	133.8

TWBIR ID: RL-T120

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
Waste Stream Source Description	This waste stream consists of TRU waste from the construction activities.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T121

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W253	**Handling**	RH	**Stream Name**	105-KE Bldg TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	710.00	0.00	0.00
Aluminum-Base Metal/Alloys	164.50	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	41.00	0.00	0.00
Cellulosics	22.50	0.00	0.00
Rubber	6.60	0.00	0.00
Plastics	34.60	0.00	0.00
Solidified, Inorganic Matrix	5.70	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	2.10	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	5.19E-01
Cs-137	5.63E-01
Pu-238	1.78E-02
Pu-239	1.17E-01
Pu-240	5.83E-02
Pu-241	2.89E+00
Pu-242	1.72E-06
Sr-90	5.25E-01
Y-90	5.25E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T121

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	53.4	0.0	0.0	0.0	0.0	53.4

As-Generated	Stored	53.4	Projected	0.0	Total	53.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	53.4	0.0	0.0	0.0	0.0	53.4

Final Form	Stored	53.4	Projected	0.0	Total	53.4

TWBIR ID: RL-T121

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
Waste Stream Source Description	This waste stream consists of remote-handled TRU waste from the operation of the Fuel Storage Basins.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.2A, Radioactive Waste Management. Upper and lower weights of final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Upper and lower weights of final waste form are unknown.

TWBIR ID: RL-T122

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W254	**Handling**	CH	**Stream Name**	105-C, 105KE, and 105-N Bldg TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	692.43	0.00	0.00
Aluminum-Base Metal/Alloys	161.34	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	39.73	0.00	0.00
Cellulosics	20.04	0.00	0.00
Rubber	4.41	0.00	0.00
Plastics	31.84	0.00	0.00
Solidified, Inorganic Matrix	5.38	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	1.66	0.00	0.00
Packaging Material, Steel	151.88		
Packaging Material, Plastic	4.50		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	2.82E-01
Cs-137	3.07E-01
Pu-238	5.22E-03
Pu-239	1.85E-01
Pu-240	4.17E-02
Pu-241	8.39E-01
Pu-242	2.50E-06
Sr-90	2.85E-01
Th-232	3.78E-06
U-234	4.98E-02
U-235	5.13E-03
U-238	5.52E-05
Y-90	2.85E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T122

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.7	0.0	0.0	0.0	0.0	2.7
Standard Waste Box	26.6	0.0	0.0	0.0	0.0	26.6

As-Generated	Stored	29.3	Projected	0.0	Total	29.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.7	0.0	0.0	0.0	0.0	2.7
Standard Waste Box	26.6	0.0	0.0	0.0	0.0	26.6

Final Form	Stored	29.3	Projected	0.0	Total	29.3

TWBIR ID: RL-T122

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
Waste Stream Source Description	This waste stream consists of TRU waste from the operation of the reactors.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T123

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W255	**Handling**	CH	**Stream Name**	Argonne Nat Lab Type 1 TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	AE	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	552.00	0.00	0.00
Aluminum-Base Metal/Alloys	87.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	43.00	0.00	0.00
Cellulosics	105.00	0.00	0.00
Rubber	45.00	0.00	0.00
Plastics	107.00	0.00	0.00
Solidified, Inorganic Matrix	15.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	18.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	7.18E-01
Pu-239	2.55E+01
Pu-240	5.74E+00
Pu-241	1.16E+02
Pu-242	3.46E-04
Th-232	1.44E-05
U-234	9.56E-02
U-235	9.81E-03
U-238	1.06E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T123

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	0.6	Projected	0.0	Total	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	0.6	Projected	0.0	Total	0.6

TWBIR ID: RL-T123

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.
Waste Stream Source Description	This waste stream consists of contact-handled TRU waste from the Argonne National Laboratory-East.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T124

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W256	**Handling**	RH	**Stream Name**	Argonne Nat Lab Type II TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	AE	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	744.80	0.00	0.00
Aluminum-Base Metal/Alloys	117.60	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	57.50	0.00	0.00
Cellulosics	141.30	0.00	0.00
Rubber	60.30	0.00	0.00
Plastics	144.70	0.00	0.00
Solidified, Inorganic Matrix	20.70	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	24.40	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	2.55E+01
Cs-137	2.78E+01
Sr-90	2.58E+01
Th-232	1.56E-04
U-233	2.03E-01
Y-90	2.58E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T124

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated	Stored	Projected	Total
	0.9	0.0	0.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.9	0.0	0.0	0.0	0.0	0.9

Final Form	Stored	Projected	Total
	0.9	0.0	0.9

TWBIR ID: RL-T124

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.
Waste Stream Source Description	This waste stream consists of remote-handled TRU waste from the Argonne National Laboratory-East.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.2A, Radioactive Waste Management. Upper and lower weights of final waste form are unknown.
Acceptance Comments	This waste stream was erroneously identified as contact-handled TRU waste in Revision 1 of the WTWBIR. It has been reclassified as remote-handled waste in Revision 2 of the WTWBIR.
Final Form Comments	Upper and lower weights of final waste form are unknown.

TWBIR ID: RL-T125

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W257	**Handling**	CH	**Stream Name**	Argonne Nat Lab Type III TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	AE	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	552.00	0.00	0.00
Aluminum-Base Metal/Alloys	87.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	43.00	0.00	0.00
Cellulosics	105.00	0.00	0.00
Rubber	45.00	0.00	0.00
Plastics	107.00	0.00	0.00
Solidified, Inorganic Matrix	15.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	18.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.06E+00
Ba-137m	9.62E-05
Cs-137	1.05E-04
Pu-238	7.30E+00
Pu-239	2.19E+01
Pu-240	1.13E+01
Pu-241	7.47E+02
Pu-242	4.93E-03
Sr-90	9.58E-05
Tc-99	2.08E-08
Th-232	1.70E-04
U-233	2.92E-01
Y-90	9.58E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T125

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	15.2	0.0	0.0	0.0	0.0	15.2

As-Generated	Stored	Projected	Total
	15.2	0.0	15.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	15.2	0.0	0.0	0.0	0.0	15.2

Final Form	Stored	Projected	Total
	15.2	0.0	15.2

TWBIR ID: RL-T125

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.
Waste Stream Source Description	This waste stream consists of contact-handled TRU waste from the Argonne National Laboratory-East.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T127

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W258	**Handling**	CH	**Stream Name**	Babcock Wilcox TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	617.29	0.00	0.00
Aluminum-Base Metal/Alloys	121.57	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	41.48	0.00	0.00
Cellulosics	65.49	0.00	0.00
Rubber	26.13	0.00	0.00
Plastics	72.05	0.00	0.00
Solidified, Inorganic Matrix	10.53	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	10.40	0.00	0.00
Packaging Material, Steel	140.71		
Packaging Material, Plastic	21.89		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.14E+00
Ba-137m	2.94E-03
Cs-137	3.20E-03
Pu-238	9.82E-02
Pu-239	3.51E+00
Pu-240	7.85E-01
Pu-241	1.59E+01
Pu-242	4.73E-05
Sr-90	2.98E-03
U-234	2.82E-04
U-235	5.96E-07
U-238	3.32E-05
Y-90	2.98E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T127

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	163.9	0.0	0.0	0.0	0.0	163.9
Standard Waste Box	119.7	0.0	0.0	0.0	0.0	119.7

As-Generated	Stored	283.6	Projected	0.0	Total	283.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	163.9	0.0	0.0	0.0	0.0	163.9
Standard Waste Box	119.7	0.0	0.0	0.0	0.0	119.7

Final Form	Stored	283.6	Projected	0.0	Total	283.6

TWBIR ID: RL-T127

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
Waste Stream Source Description	This waste stream consists of contact-handled TRU waste from the Babcock Wilcox.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T128

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W259	**Handling**	CH	**Stream Name**	Bartlesville TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	552.00	0.00	0.00
Aluminum-Base Metal/Alloys	87.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	43.00	0.00	0.00
Cellulosics	105.00	0.00	0.00
Rubber	45.00	0.00	0.00
Plastics	107.00	0.00	0.00
Solidified, Inorganic Matrix	15.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	18.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.70E+00
Ba-137m	4.74E-02
C-14	2.67E+00
Cs-137	5.15E-02
H-3	8.06E+00
Pu-238	1.63E-06
Pu-239	5.81E-05
Pu-240	1.30E-05
Pu-241	2.63E-04
Pu-242	7.85E-10
Sr-90	4.80E-02
Y-90	4.80E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T128

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-T128

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.
Waste Stream Source Description	This waste stream consists of contact-handled TRU waste from Bartlesville.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T129

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W260	**Handling**	CH	**Stream Name**	Battelle Columbus TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	BC	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	644.02	0.00	0.00
Aluminum-Base Metal/Alloys	135.72	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	40.86	0.00	0.00
Cellulosics	49.32	0.00	0.00
Rubber	18.40	0.00	0.00
Plastics	57.75	0.00	0.00
Solidified, Inorganic Matrix	8.69	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	7.29	0.00	0.00
Packaging Material, Steel	144.68		
Packaging Material, Plastic	15.71		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	2.40E-03
Cs-137	2.61E-03
Pu-238	4.48E+00
Pu-239	4.75E-01
Pu-240	1.06E-01
Pu-241	2.14E+00
Pu-242	6.40E-06
Sr-90	2.44E-03
U-234	2.67E-04
U-235	1.85E-05
U-238	5.74E-05
Y-90	2.44E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T129

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	11.6	0.0	0.0	0.0	0.0	11.6
Standard Waste Box	17.1	0.0	0.0	0.0	0.0	17.1

As-Generated	Stored	28.7	Projected	0.0	Total	28.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	11.6	0.0	0.0	0.0	0.0	11.6
Standard Waste Box	17.1	0.0	0.0	0.0	0.0	17.1

Final Form	Stored	28.7	Projected	0.0	Total	28.7

TWBIR ID: RL-T129

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
Waste Stream Source Description	This waste stream consists of contact-handled TRU waste from Battelle Columbus Laboratory.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.
Acceptance Comments	The Type II Battelle Columbus waste reported as Waste No. RL-T130 in Revision 1 of the WTWBIR has been merged in Revision 2 with the Type I waste reported in RL-T129. RL-T130 has been replaced n Revision 2 of the WTWBIR with TRU waste generated by Bettis Atomic Power Laboratory.
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T130

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W261	**Handling**	CH	**Stream Name**	Bettis TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	BC	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	552.00	0.00	0.00
Aluminum-Base Metal/Alloys	87.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	43.00	0.00	0.00
Cellulosics	105.00	0.00	0.00
Rubber	45.00	0.00	0.00
Plastics	107.00	0.00	0.00
Solidified, Inorganic Matrix	15.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	18.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	3.69E-01
Cs-137	4.01E-01
Pu-238	3.92E-03
Pu-239	1.40E-01
Pu-240	3.13E-02
Pu-241	6.31E-01
Pu-242	1.88E-06
Sr-90	3.75E-01
U-234	3.99E-04
U-235	4.09E-05
U-238	4.40E-07
Y-90	3.75E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T130

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-T130

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.
Waste Stream Source Description	This waste stream consists of contact-handled TRU waste from Bettis Atomic Power Laboratory.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.
Acceptance Comments	The Type II Battelle Columbus waste reported as Waste No. RL-T130 in Revision 1 of the WTWBIR has been merged in Revision 2 with the Type I waste reported in RL-T129. RL-T130 has been replaced n Revision 2 of the WTWBIR with TRU waste generated by Bettis Atomic Power Laboratory.
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T131

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W262	**Handling**	CH	**Stream Name**	Energy Systems Group TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	552.00	0.00	0.00
Aluminum-Base Metal/Alloys	87.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	43.00	0.00	0.00
Cellulosics	105.00	0.00	0.00
Rubber	45.00	0.00	0.00
Plastics	107.00	0.00	0.00
Solidified, Inorganic Matrix	15.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	18.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.70E-02
Ba-137m	2.48E-05
Cs-137	2.70E-05
Pu-238	1.48E-02
Pu-239	1.84E-01
Pu-240	4.09E-02
Pu-241	9.82E-01
Pu-242	2.43E-06
Sr-90	2.46E-05
Tc-99	5.76E-09
U-234	2.73E-04
U-235	2.78E-05
U-238	5.71E-07
Y-90	2.46E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T131

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	30.2	0.0	0.0	0.0	0.0	30.2

As-Generated	Stored	30.2	Projected	0.0	Total	30.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	30.2	0.0	0.0	0.0	0.0	30.2

Final Form	Stored	30.2	Projected	0.0	Total	30.2

TWBIR ID: RL-T131

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.
Waste Stream Source Description	This waste stream consists of contact-handled TRU waste from the Energy Systems Group.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T132

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W263	**Handling**	CH	**Stream Name**	Exxon TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	552.00	0.00	0.00
Aluminum-Base Metal/Alloys	87.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	43.00	0.00	0.00
Cellulosics	105.00	0.00	0.00
Rubber	45.00	0.00	0.00
Plastics	107.00	0.00	0.00
Solidified, Inorganic Matrix	15.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	18.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	3.96E-03
Cs-137	4.31E-03
Pu-238	2.74E+00
Pu-239	9.78E+01
Pu-240	2.19E+01
Pu-241	4.41E+02
Pu-242	1.32E-03
Sr-90	4.01E-03
U-234	8.54E-03
U-235	3.81E-04
U-238	8.30E-03
Y-90	4.01E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T132

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	28.7	0.0	0.0	0.0	0.0	28.7

As-Generated	Stored	28.7	Projected	0.0	Total	28.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	28.7	0.0	0.0	0.0	0.0	28.7

Final Form	Stored	28.7	Projected	0.0	Total	28.7

TWBIR ID: RL-T132

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.
Waste Stream Source Description	This waste stream consists of contact-handled TRU waste from Exxon.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.
Acceptance Comments	The Exxon waste reported as Waste No. RL-T133 in Revision 1 of the WTWBIR has been merged in Revision 2 with the Exxon waste reported in RL-T132. RL-T133 has been replaced in Revision 2 of the WTWBIR with TRU waste generated by the International Atomic Energy Agency.
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T133

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W264	**Handling**	CH	**Stream Name**	International Atomic Energy Agency TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	552.00	0.00	0.00
Aluminum-Base Metal/Alloys	87.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	43.00	0.00	0.00
Cellulosics	105.00	0.00	0.00
Rubber	45.00	0.00	0.00
Plastics	107.00	0.00	0.00
Solidified, Inorganic Matrix	15.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	18.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Source Unknown

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.30E-02
Ba-137m	4.39E-04
Cs-137	4.77E-04
Pu-238	6.07E-03
Pu-239	2.22E-01
Pu-240	4.97E-02
Pu-241	8.68E-01
Pu-242	2.99E-06
Sr-90	4.35E-04
Tc-99	1.04E-07
Y-90	4.35E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T133

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-T133

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.
Waste Stream Source Description	This waste stream consists of contact-handled TRU waste from the International Atomic Energy Agency.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.
Acceptance Comments	The Exxon waste reported as Waste No. RL-T133 in Revision 1 of the WTWBIR has been merged in Revision 2 with the Exxon waste reported in RL-T132. RL-T133 has been replaced in Revision 2 of the WTWBIR with TRU waste generated by the International Atomic Energy Agency.
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T134

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W265	**Handling**	CH	**Stream Name**	Lawrence Berkeley Nat Lab TRU Waste	**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	LB	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	552.00	0.00	0.00
Aluminum-Base Metal/Alloys	87.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	43.00	0.00	0.00
Cellulosics	105.00	0.00	0.00
Rubber	45.00	0.00	0.00
Plastics	107.00	0.00	0.00
Solidified, Inorganic Matrix	15.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	18.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	3.41E+00
Cs-137	3.71E+00
Pu-238	1.63E-02
Pu-239	5.82E-01
Pu-240	1.30E-01
Pu-241	2.63E+00
Pu-242	7.85E-06
Sr-90	3.46E+00
Y-90	3.46E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T134

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-T134

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.
Waste Stream Source Description	This waste stream consists of contact-handled TRU waste from the Lawrence Berkeley National Laboratories.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T135

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W266	**Handling**	CH	**Stream Name**	Lawrence Livermore TRU Waste	**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	LL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	552.00	0.00	0.00
Aluminum-Base Metal/Alloys	87.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	43.00	0.00	0.00
Cellulosics	105.00	0.00	0.00
Rubber	45.00	0.00	0.00
Plastics	107.00	0.00	0.00
Solidified, Inorganic Matrix	15.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	18.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	2.12E-04
Cs-137	2.32E-04
Pu-238	3.81E-02
Pu-239	1.36E+00
Pu-240	3.04E-01
Pu-241	6.14E+00
Pu-242	1.83E-05
Sr-90	2.16E-04
U-234	9.97E-03
U-235	1.78E-05
U-238	1.11E-03
Y-90	2.16E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T135

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-T135

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.
Waste Stream Source Description	This waste stream consists of contact-handled TRU waste from the Lawrence Livermore National Laboratories.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.
Acceptance Comments	The Type II Lawrence Livermore National Laboratories waste reported as Waste No. RL-T136 in Revision 1 of the WTWBIR has been merged in Revision 2 with the Type I waste reported in RL-T135. RL-T136 has been deleted in Revision 2 of the WTWBIR.
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T137

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W267	**Handling**	CH	**Stream Name**	Kerr McGee TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	552.00	0.00	0.00
Aluminum-Base Metal/Alloys	87.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	43.00	0.00	0.00
Cellulosics	105.00	0.00	0.00
Rubber	45.00	0.00	0.00
Plastics	107.00	0.00	0.00
Solidified, Inorganic Matrix	15.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	18.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.16E+00
Ba-137m	4.80E-03
Cs-137	5.22E-03
Pu-238	2.29E+00
Pu-239	2.84E+01
Pu-240	6.33E+00
Pu-241	1.54E+02
Pu-242	3.76E-04
Sr-90	4.77E-03
Tc-99	1.10E-06
U-234	4.11E-05
U-235	1.84E-06
U-238	3.99E-05
Y-90	4.77E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T137

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	151.6	0.0	0.0	0.0	0.0	151.6

As-Generated	Stored	151.6	Projected	0.0	Total	151.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	151.6	0.0	0.0	0.0	0.0	151.6

Final Form	Stored	151.6	Projected	0.0	Total	151.6

TWBIR ID: RL-T137

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.
Waste Stream Source Description	This waste stream consists of contact-handled TRU waste from Kerr McGee.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T140

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W268	**Handling**	CH	**Stream Name**	Rocky Flats TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	552.00	0.00	0.00
Aluminum-Base Metal/Alloys	87.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	43.00	0.00	0.00
Cellulosics	105.00	0.00	0.00
Rubber	45.00	0.00	0.00
Plastics	107.00	0.00	0.00
Solidified, Inorganic Matrix	15.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	18.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.19E+00
Ba-137m	4.79E-03
Cs-137	5.21E-03
Pu-238	2.39E+00
Pu-239	3.02E+01
Pu-240	7.44E+00
Pu-241	1.44E+02
Pu-242	6.40E-04
Sr-90	4.77E-03
Tc-99	1.04E-06
U-234	1.90E-01
U-235	3.54E-04
U-238	2.12E-02
Y-90	4.77E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T140

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	138.1	0.0	0.0	0.0	0.0	138.1

As-Generated	Stored	138.1	Projected	0.0	Total	138.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	138.1	0.0	0.0	0.0	0.0	138.1

Final Form	Stored	138.1	Projected	0.0	Total	138.1

TWBIR ID: RL-T140

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.
Waste Stream Source Description	This waste stream consists of contact-handled TRU waste from Rocky Flats.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.
Acceptance Comments	The Type II Rocky Flats waste reported as Waste No. RL-T141 in Revision 1 of the WTWBIR has been merged in Revision 2 with the Type I waste reported in RL-T140. RL-T141 has been deleted in Revision 2 of the WTWBIR.
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T143

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W269	**Handling**	CH	**Stream Name**	GE San Jose and Vallecitos TRU Waste	**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	GE	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	697.61	0.00	0.00
Aluminum-Base Metal/Alloys	164.09	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	39.61	0.00	0.00
Cellulosics	16.90	0.00	0.00
Rubber	2.91	0.00	0.00
Plastics	29.06	0.00	0.00
Solidified, Inorganic Matrix	5.02	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	1.06	0.00	0.00
Packaging Material, Steel	152.65		
Packaging Material, Plastic	3.30		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	2.53E-04
Cs-137	2.74E-04
Pu-238	4.69E-03
Pu-239	1.67E-01
Pu-240	3.74E-02
Pu-241	7.57E-01
Pu-242	2.25E-06
Sr-90	2.56E-04
U-234	9.55E-05
U-235	5.84E-06
U-238	6.69E-05
Y-90	2.56E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T143

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	23.7	0.0	0.0	0.0	0.0	23.7
Standard Waste Box	380.0	0.0	0.0	0.0	0.0	380.0

As-Generated	Stored	Projected	Total
	403.7	0.0	403.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	23.7	0.0	0.0	0.0	0.0	23.7
Standard Waste Box	380.0	0.0	0.0	0.0	0.0	380.0

Final Form	Stored	Projected	Total
	403.7	0.0	403.7

TWBIR ID: RL-T143

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
Waste Stream Source Description	This waste consists of typically contact-handled TRU waste from the General Electric Plants at San Jose and Vallecitos.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.
Acceptance Comments	The Type I and II GE Pleasanton waste reported in Waste Nos. RL-T138 and RL-T139 and RL-139, and the GE Vallecitos waste reported in RL-T144 in Revision 1 of the WTWBIR have been merged in Revision 2 with the waste reported in RL-T143. RL-T138, RL-T139, and RL-T144 have been deleted in Revision 2.
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T145

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W270	**Handling**	CH	**Stream Name**	Ward TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	678.47	0.00	0.00
Aluminum-Base Metal/Alloys	153.95	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	40.06	0.00	0.00
Cellulosics	28.48	0.00	0.00
Rubber	8.44	0.00	0.00
Plastics	39.31	0.00	0.00
Solidified, Inorganic Matrix	6.33	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	3.28	0.00	0.00
Packaging Material, Steel	149.80		
Packaging Material, Plastic	7.73		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	1.65E-03
Cs-137	1.80E-03
Pu-238	7.57E-03
Pu-239	2.70E-01
Pu-240	6.03E-02
Pu-241	1.22E+00
Pu-242	3.64E-06
Sr-90	1.68E-03
Th-232	1.37E-07
U-234	1.26E-04
U-235	7.46E-06
U-238	1.75E-05
Y-90	1.68E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T145

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	129.8	0.0	0.0	0.0	0.0	129.8
Standard Waste Box	581.4	0.0	0.0	0.0	0.0	581.4

As-Generated	Stored	711.2	Projected	0.0	Total	711.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	129.8	0.0	0.0	0.0	0.0	129.8
Standard Waste Box	581.4	0.0	0.0	0.0	0.0	581.4

Final Form	Stored	711.2	Projected	0.0	Total	711.2

TWBIR ID: RL-T145

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
Waste Stream Source Description	This waste stream consists of contact-handled TRU waste from the Westinghouse Advanced Reactor Division (WARD).
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.
Acceptance Comments	The Ward waste reported in Waste Nos. RL-T144 in Revision 1 of the WTWBIR has been merged in Revision 2 with the waste reported in RL-T145. RL-T144 has been deleted in Revision 2.
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TWBIR ID: RL-T147

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W271	**Handling**	RH	**Stream Name**	325 and 325B Bldg Op TRU Caisson Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	709.30	0.00	0.00
Aluminum-Base Metal/Alloys	165.40	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	40.70	0.00	0.00
Cellulosics	20.10	0.00	0.00
Rubber	5.50	0.00	0.00
Plastics	32.40	0.00	0.00
Solidified, Inorganic Matrix	5.40	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	1.70	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.59E-01
Ba-137m	6.91E+01
Cs-137	7.51E+01
Pu-238	1.89E+00
Pu-239	1.24E+01
Pu-240	6.17E+00
Pu-241	2.91E+02
Pu-242	1.82E-04
Sr-90	7.00E+01
Th-232	1.06E-05
U-233	1.85E-02
U-234	4.41E-02
U-235	4.30E-03
U-238	3.23E-04

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T147

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	27.6	0.0	0.0	0.0	0.0	27.6

As-Generated	Stored	27.6	Projected	0.0	Total	27.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	27.6	0.0	0.0	0.0	0.0	27.6

Final Form	Stored	27.6	Projected	0.0	Total	27.6

TWBIR ID: RL-T147

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Y-90	7.00E+01

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description This waste stream consists of remote-handled TRU waste from the Radiochemistry Building and Shielded Laboratory Annex.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.2A, Radioactive Waste Management. Upper and lower weights of final waste form are unknown.

Acceptance Comments The remote-handled TRU waste from Building 324 reported under Waste No. RL-T147 in Revision 1 of the WTWBIR has been merged with waste reported under RL-T148. This waste is reported in RL-T148 in Revision 2.

Final Form Comments Upper and lower weights of final waste form are unknown.

TWBIR ID: RL-T148

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W272	**Handling**	RH	**Stream Name**	324 and 327C TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	737.60	0.00	0.00
Aluminum-Base Metal/Alloys	127.30	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	54.10	0.00	0.00
Cellulosics	116.70	0.00	0.00
Rubber	49.20	0.00	0.00
Plastics	121.90	0.00	0.00
Solidified, Inorganic Matrix	17.60	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	19.80	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	1.52E+03
Co-60	3.64E+01
Cs-137	1.65E+03
Pu-238	2.38E+00
Pu-239	1.56E+01
Pu-240	7.78E+00
Pu-241	3.68E+02
Pu-242	2.29E-04
Sr-90	1.54E+03
Th-232	5.37E-05
U-233	1.12E-02
U-234	6.81E-02
U-235	6.66E-03
U-238	4.78E-04

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T148

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	24.0	0.0	0.0	0.0	0.0	24.0

As-Generated	Stored	Projected	Total
	24.0	0.0	24.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	24.0	0.0	0.0	0.0	0.0	24.0

Final Form	Stored	Projected	Total
	24.0	0.0	24.0

TWBIR ID: RL-T148

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Y-90	1.54E+03

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description This waste stream consists of typically remote-handled TRU waste from the Chemical Engineering Building and Post Irradiation Test Laboratory.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.2A, Radioactive Waste Management. Upper and lower weights of final waste form are unknown.

Acceptance Comments The remote-handled TRU waste from Building 324 reported under Waste No. RL-T147 in Revision 1 of the WTWBIR has been merged with waste reported under RL-T148. This waste is reported in RL-T148 in Revision 2.

Final Form Comments Upper and lower weights of final waste form are unknown.

TWBIR ID: RL-T149

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W273	**Handling**	RH	**Stream Name**	325A and 325B R&D TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	707.60	0.00	0.00
Aluminum-Base Metal/Alloys	167.80	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	39.90	0.00	0.00
Cellulosics	14.10	0.00	0.00
Rubber	2.80	0.00	0.00
Plastics	26.80	0.00	0.00
Solidified, Inorganic Matrix	4.70	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.50	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	2.54E+01
Cs-137	2.72E+01
Pu-238	3.89E-03
Pu-239	2.55E-02
Pu-240	1.27E-02
Pu-241	6.01E-01
Pu-242	3.74E-07
Sr-90	2.64E+01
Th-232	5.97E-04
U-233	1.09E-01
U-234	6.48E-05
U-235	6.65E-06
U-238	7.13E-08
Y-90	2.64E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T149

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	69.4	0.0	0.0	0.0	0.0	69.4

As-Generated	Stored	69.4	Projected	0.0	Total	69.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	69.4	0.0	0.0	0.0	0.0	69.4

Final Form	Stored	69.4	Projected	0.0	Total	69.4

TWBIR ID: RL-T149

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
Waste Stream Source Description	This waste stream consists of remote-handled TRU waste from the Cesium Recovery Facility and Shielded Laboratory Annex of the Radiochemistry Building.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.2A, Radioactive Waste Management. Upper and lower weights of final waste form are unknown.
Acceptance Comments	This waste stream has been expanded in Revision 2 of the WTWBIR to report remote-handled waste from both Buildings 325A and 325B.
Final Form Comments	Upper and lower weights of final waste form are unknown.

TWBIR ID: RL-W161

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W274	**Handling**	RH	**Stream Name**	202A Bldg Remote-Handled TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	725.80	0.00	0.00
Aluminum-Base Metal/Alloys	143.30	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	48.50	0.00	0.00
Cellulosics	76.30	0.00	0.00
Rubber	30.90	0.00	0.00
Plastics	84.50	0.00	0.00
Solidified, Inorganic Matrix	12.50	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	12.20	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	1.29E-01
Cs-137	1.40E-01
Pu-238	2.06E-03
Pu-239	1.35E-02
Pu-240	6.73E-03
Pu-241	3.18E-01
Pu-242	1.98E-07
Sr-90	1.30E-01
Y-90	1.30E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W161

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	5.3	0.0	0.0	0.0	0.0	5.3

As-Generated	Stored	Projected	Total
	5.3	0.0	5.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	5.3	0.0	0.0	0.0	0.0	5.3

Final Form	Stored	Projected	Total
	5.3	0.0	5.3

TWBIR ID: RL-W161

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
Waste Stream Source Description	This waste stream consists of remote-handled TRU waste from the Purex Canyon and Service Facility.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.2A, Radioactive Waste Management. Upper and lower weights of final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Upper and lower weights of final waste form are unknown.

TWBIR ID: RL-W162

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W275	**Handling**	RH	**Stream Name**	202AL and 222S Bldg Remote-Handled TRU Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	744.80	0.00	0.00
Aluminum-Base Metal/Alloys	117.60	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	57.50	0.00	0.00
Cellulosics	141.30	0.00	0.00
Rubber	60.30	0.00	0.00
Plastics	144.70	0.00	0.00
Solidified, Inorganic Matrix	20.70	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	24.40	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Analytical Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	2.65E-01
Cs-137	2.88E-01
Pu-238	6.10E-06
Pu-239	4.00E-05
Pu-240	1.99E-05
Pu-241	9.44E-04
Pu-242	5.87E-10
Sr-90	2.69E-01
U-234	9.14E-08
U-235	4.09E-09
U-238	8.87E-08
Y-90	2.69E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W162

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	18.7	0.0	0.0	0.0	0.0	18.7

As-Generated	Stored	Projected	Total
	18.7	0.0	18.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	18.7	0.0	0.0	0.0	0.0	18.7

Final Form	Stored	Projected	Total
	18.7	0.0	18.7

TWBIR ID: RL-W162

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30% of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.
Waste Stream Source Description	This waste stream consists of remote-handled TRU waste from process analytical laboratories.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.2A, Radioactive Waste Management. Upper and lower weights of final form are unknown.
Acceptance Comments	N/A
Final Form Comments	Upper and lower weights of final waste form are unknown.

TWBIR ID: RL-W407

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W407	**Handling**	CH	**Stream Name**	Future CH-TRU RH and Oversized MLLW/TRU(M) Facilities (M-91)			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	143.57	143.57	143.57
Other Inorganic Materials	1.19	1.19	1.19
Cellulosics	9.52	9.52	9.52
Rubber	0.00	0.00	0.00
Plastics	17.14	17.14	17.14
Solidified, Inorganic Matrix	1.19	1.19	1.19
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Waste Treatment Process

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.28E-02
Pu-238	2.36E-02
Pu-239	9.01E-01
Pu-240	2.02E-01
Pu-241	2.70E+00
Pu-242	1.21E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W407

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	0.0	0.0	38.0	95.0	98.8	231.8

As-Generated	Stored	Projected	Total
	0.0	231.8	231.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	0.0	0.0	0.0	0.0	0.0	231.8

Final Form	Stored	Projected	Total
	0.0	231.8	231.8

TWBIR ID: RL-W407

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste , such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
Waste Stream Source Description	Waste from the future M-91 facility, which will be used to size reduce metal debris to fit in standard waste boxes or RH canisters
Current Container Comments	N/A
EPA Comments	Data are compiled from waste manifest data on each container of TRU waste.
Management Comments	While not forecasted from 1995 to 1999, additional generation is forecasted from 2000 to 2024.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W408

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W408	**Handling**	CH	**Stream Name**	Future CH-TRU T Plant Canyon Cleanout			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5900

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	28.57	28.57	28.57
Other Inorganic Materials	9.47	9.47	75.76
Cellulosics	66.67	66.67	66.67
Rubber	123.40	99.29	208.14
Plastics	33.33	33.33	33.33
Solidified, Inorganic Matrix	0.96	0.43	1.43
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	325.10	295.24	337.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.12E-05
Pu-238	1.28E-05
Pu-239	4.68E-04
Pu-240	1.05E-04
Pu-241	1.79E-03
Pu-242	6.32E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W408

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8

As-Generated	Stored	Projected	Total
	3.8	0.0	3.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8

Final Form	Stored	Projected	Total
	3.8	0.0	3.8

TWBIR ID: RL-W408

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste , such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
Waste Stream Source Description	The waste stream is from facility clean-out and D&D waste from the T-Plant Canyon and Decontamination facility.
Current Container Comments	N/A
EPA Comments	Data are compiled from waste manifest data on each container of TRU waste.
Management Comments	While not forecasted from 1995 to 1999, additional generation is forecasted from 2000 to 2024.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W415

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W415	**Handling**	CH	**Stream Name**	Future CH-MTRU T Plant Transition			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5900

EPA Codes

As-Generated
Uncompiled

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	28.57	28.57	28.57
Other Inorganic Materials	9.47	9.47	75.76
Cellulosics	66.67	66.67	66.67
Rubber	123.40	99.29	208.14
Plastics	33.33	33.33	33.33
Solidified, Inorganic Matrix	0.96	0.43	1.43
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	325.10	295.24	337.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.12E-05
Pu-238	1.28E-05
Pu-239	4.68E-04
Pu-240	1.05E-04
Pu-241	1.79E-03
Pu-242	6.32E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W415

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 gallon drum	0.0	0.0	0.0	0.0	14.9	39.9

As-Generated	Stored	0.0	Projected	39.9	Total	39.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	39.9

Final Form	Stored	0.0	Projected	39.9	Total	39.9

TWBIR ID: RL-W415

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste , such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
Waste Stream Source Description	The waste stream is from facility clean-out and D&D waste from the T-Plant Canyon and Decontamination facility.
Current Container Comments	N/A
EPA Comments	Data are compiled from waste manifest data on each container of TRU waste.
Management Comments	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W418

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W418	**Handling**	CH	**Stream Name**	Future CH-MTRU Waste Feed Delivery System (8 tanks)			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RL	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
Uncompiled

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	596.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.08E-04
Pu-238	2.61E-04
Pu-239	9.80E-03
Pu-240	2.20E-03
Pu-241	3.24E-02
Pu-242	1.32E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W418

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.0	0.0	8.2	0.0	0.0	8.2

As-Generated	Stored	0.0	Projected	8.2	Total	8.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	8.2

Final Form	Stored	0.0	Projected	8.2	Total	8.2

TWBIR ID: RL-W418

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste , such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
Waste Stream Source Description	The waste stream is miscellaneous solid wastes from the operation of the planned HLW vitrification facility.
Current Container Comments	N/A
EPA Comments	Data are compiled from waste manifest data on each container of TRU waste.
Management Comments	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W419

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W419	**Handling**	RH	**Stream Name**	Future RH-TRU K-Basin Transition			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5900

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	28.57	28.57	28.57
Other Inorganic Materials	9.47	9.47	75.76
Cellulosics	66.67	66.67	66.67
Rubber	123.40	99.29	208.14
Plastics	33.33	33.33	33.33
Solidified, Inorganic Matrix	0.96	0.43	1.43
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	325.10	295.24	337.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.12E-05
Pu-238	1.28E-05
Pu-239	4.68E-04
Pu-240	1.05E-04
Pu-241	1.79E-03
Pu-242	6.32E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W419

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	3.6	0.0	0.0	0.0	3.6

As-Generated	Stored	Projected	Total
	0.0	3.6	3.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	0.0	0.0	3.6

Final Form	Stored	Projected	Total
	0.0	3.6	3.6

TWBIR ID: RL-W419

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste , such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
Waste Stream Source Description	The waste stream is miscellaneous solid wastes from operations of the N-Reactor fuel storage basins.
Current Container Comments	N/A
EPA Comments	Data are compiled from waste manifest data on each container of TRU waste.
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W420

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W420	**Handling**	RH	**Stream Name**	Future RH-TRU Waste Treatment Plant - Operations			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	596.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.08E-04
Pu-238	2.61E-04
Pu-239	9.80E-03
Pu-240	2.20E-03
Pu-241	3.24E-02
Pu-242	1.32E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W420

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	24.9	1.8	0.0	26.7

As-Generated	Stored	Projected	Total
	0.0	26.7	26.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	0.0	0.0	26.7

Final Form	Stored	Projected	Total
	0.0	26.7	26.7

TWBIR ID: RL-W420

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste , such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
Waste Stream Source Description	The waste stream is miscellaneous solid wastes from the operation of the planned HLW vitrification facility.
Current Container Comments	N/A
EPA Comments	Data are compiled from waste manifest data on each container of TRU waste.
Management Comments	While not forecasted from 1995 to 1999, additional generation is forecasted from 2000 to 2024.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W421

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W421	**Handling**	RH	**Stream Name**	Future RH-MTRU Waste Feed Delivery System (8 tanks)			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5900

EPA Codes

As-Generated
Uncompiled

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	28.57	28.57	28.57
Other Inorganic Materials	9.47	9.47	75.76
Cellulosics	66.67	66.67	66.67
Rubber	123.40	99.29	208.14
Plastics	33.33	33.33	33.33
Solidified, Inorganic Matrix	0.96	0.43	1.43
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	325.10	295.24	337.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.12E-05
Pu-238	1.28E-05
Pu-239	4.68E-04
Pu-240	1.05E-04
Pu-241	1.79E-03
Pu-242	6.32E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W421

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	315.9	0.0	0.0	315.9

As-Generated	Stored	Projected	Total
	0.0	315.9	315.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	0.0	0.0	315.9

Final Form	Stored	Projected	Total
	0.0	315.9	315.9

TWBIR ID: RL-W421

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste , such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
Waste Stream Source Description	The waste stream is miscellaneous solid wastes from the operation of the planned HLW vitrification facility.
Current Container Comments	N/A
EPA Comments	Data are compiled from waste manifest data on each container of TRU waste.
Management Comments	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W424

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W424	**Handling**	RH	**Stream Name**	327 Non-surplus Facility Mgmt Prg D&D TRU/RH			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5100

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	164.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	60.00	0.00	0.00
Other Inorganic Materials	35.00	0.00	0.00
Cellulosics	5.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	6.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.80E-01
Ba-137m	5.00E-01
C-14	7.50E-04
Cs-137	5.30E-01
H-3	1.00E-03
I-129	3.00E-07
Pu-238	9.10E-02
Pu-239	2.30E-01
Pu-240	1.30E-01
Pu-241	3.60E+00
Pu-242	4.50E-05
Se-79	4.30E-06
Sm-151	8.40E-03
Sr-90	4.20E-01

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W424

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	1014.6	0.0	0.0	1014.6

As-Generated	Stored	Projected	Total
	0.0	1014.6	1014.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	0.0	0.0	1014.6

Final Form	Stored	Projected	Total
	0.0	1014.6	1014.6

TWBIR ID: RL-W424

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
U-234	9.90E-04
U-235	3.90E-05
U-236	1.30E-04
U-238	7.00E-04
Y-90	4.20E-01

Waste Stream Description	The waste stream typically contains equipment including but not limited to saws, manipulators, hoists, hoods, lathes, and cabinetry.
Waste Stream Source Description	The waste stream is large tanks/dissolvers/pumps/concentrator. Size reduction is required to package the waste into RH canisters.
Current Container Comments	Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	The research and development roles expected to be assumed by 327 before closure have not been defined.
Final Form Comments	N/A

TWBIR ID: RL-W425

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W425	**Handling**	RH	**Stream Name**	100N Non-surplus Facility Mgmt Prg D&D TRU/RH			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	60.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	30.00	0.00	0.00
Other Inorganic Materials	75.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	7.00	0.00	0.00
Solidified, Inorganic Matrix	83.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	31.00	0.00	0.00
Soils	24.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.77E-03
Pu-238	1.72E-03
Pu-239	2.10E-05
Pu-240	3.78E-05
Pu-241	9.27E-02
Pu-242	1.92E-11

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W425

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	473.5	710.2	0.0	1183.7

As-Generated	Stored	Projected	Total
	0.0	1183.7	1183.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	0.0	0.0	1183.7

Final Form	Stored	Projected	Total
	0.0	1183.7	1183.7

TWBIR ID: RL-W425

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste stream is surplus facility clean-out and D&D waste which range from contaminated clothing, to process equipment.
Waste Stream Source Description	Facility clean-out and D&D from the 100-N Reactor Facility.
Current Container Comments	Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W426

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W426	**Handling**	RH	**Stream Name**	202A Non-surplus Facility Mgmt Prg D&D TRU/RH			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5110

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	241.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.90E-03
Ba-137m	9.30E-02
C-14	9.90E-04
Cs-137	9.80E-02
H-3	1.90E-04
I-129	4.10E-09
Np-237	1.70E-08
Pu-238	4.50E-04
Pu-239	1.10E-03
Pu-240	6.20E-04
Pu-241	1.80E-02
Pu-242	2.20E-07
Rh-106	2.60E-03
Ru-106	2.60E-03

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W426

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	46.3	69.4	0.0	115.7

As-Generated	Stored	Projected	Total
	0.0	115.7	115.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	0.0	0.0	115.7

Final Form	Stored	Projected	Total
	0.0	115.7	115.7

TWBIR ID: RL-W426

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Se-79	8.00E-07
Sm-151	1.60E-03
Sr-90	7.80E-02
U-234	1.70E-06
U-235	6.70E-08
U-236	2.20E-07
U-238	1.20E-06
Y-90	7.80E-02

Waste Stream Description	The waste stream is large tanks/dissolvers/pumps/concentrator. Size reduction is required to package the waste into RH canisters.
Waste Stream Source Description	Cleanout of contaminated equipment/removable piping etc. from PUREX facility.
Current Container Comments	Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W427

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W427	**Handling**	RH	**Stream Name**	202-A Tunnel Non-surplus Facility Mgmt Prg D&D TRU/RH			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5110

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	231.00	0.00	0.00
Aluminum-Base Metal/Alloys	4.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	5.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.80E-01
Ba-137m	5.00E-01
C-14	7.50E-04
Cs-137	5.30E-01
H-3	1.00E-03
I-129	3.00E-07
Pu-238	9.10E-02
Pu-239	2.30E-01
Pu-240	1.30E-01
Pu-241	3.60E+00
Pu-242	4.50E-05
Se-79	4.30E-06
Sm-151	8.40E-03
Sr-90	4.20E-01

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W427

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	696.9	0.0	696.9

As-Generated	Stored	Projected	Total
	0.0	696.9	696.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	0.0	0.0	696.9

Final Form	Stored	Projected	Total
	0.0	696.9	696.9

TWBIR ID: RL-W427

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
U-234	9.90E-04
U-235	3.90E-05
U-236	1.30E-04
U-238	7.00E-04
Y-90	4.20E-01

Waste Stream Description	Fuel reprocessing equipment (i.e., columns, concentrators, dissolvers, tanks, scrap). One container is filled with fuel ends and fuel handling equipment (22.7m3).
Waste Stream Source Description	Held waste in 2 below grade tunnels that contain equipment too large, bulky and/or highly radioactively contaminated to be stored/disposed of by conventional methods.
Current Container Comments	Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W428

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W428	**Handling**	RH	**Stream Name**	Future RH-TRU RH and Oversized MLLW/TRU(M) Facilities (M-91)			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	60.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	30.00	0.00	0.00
Other Inorganic Materials	75.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	7.00	0.00	0.00
Solidified, Inorganic Matrix	83.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	31.00	0.00	0.00
Soils	24.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Waste Treatment Process

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.77E-03
Pu-238	1.72E-03
Pu-239	2.10E-05
Pu-240	3.78E-05
Pu-241	9.27E-02
Pu-242	1.92E-11

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W428

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	3.6	8.9	8.9	21.4

As-Generated	Stored	Projected	Total
	0.0	21.4	21.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	0.0	0.0	21.4

Final Form	Stored	Projected	Total
	0.0	21.4	21.4

TWBIR ID: RL-W428

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste stream ranges from contaminated clothing to process equipment.
Waste Stream Source Description	Waste from the future M-91 facility, which will be used to size reduce metal debris to fit in standard waste boxes or RH canisters
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W429

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W429	**Handling**	RH	**Stream Name**	2345Z Non-surplus Facility Mgmt Prg D&D TRU/RH			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5110

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	190.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	52.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.80E-01
Ba-137m	5.00E-01
C-14	7.50E-04
Cs-137	5.30E-01
H-3	1.00E-03
I-129	3.00E-07
Pu-238	9.10E-02
Pu-239	2.30E-01
Pu-240	1.30E-01
Pu-241	3.60E+00
Pu-242	4.50E-05
Se-79	4.30E-06
Sm-151	8.40E-03
Sr-90	4.20E-01

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W429

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	2162.7	0.0	0.0	2162.7

As-Generated	Stored	0.0	Projected	2162.7	Total	2162.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	0.0	0.0	2162.7

Final Form	Stored	0.0	Projected	2162.7	Total	2162.7

TWBIR ID: RL-W429

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
U-234	9.90E-04
U-235	3.90E-05
U-236	1.30E-04
U-238	7.00E-04
Y-90	4.20E-01

Waste Stream Description	This waste stream is major processing equipment, piping, ductwork, and gloveboxes resulting fron the cleanout and D&D of PFP.
Waste Stream Source Description	Cleanout and D&D of the Plutonium Finishing Plant and Plutonium Processing Facility.
Current Container Comments	Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W430

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W430	**Handling**	RH	**Stream Name**	Surplus Facility Mgmt Prg D&D MTRU/RH			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
D001C, D002B, D009X

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	60.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	30.00	0.00	0.00
Other Inorganic Materials	75.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	7.00	0.00	0.00
Solidified, Inorganic Matrix	83.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	31.00	0.00	0.00
Soils	24.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.77E-03
Pu-238	1.72E-03
Pu-239	2.10E-05
Pu-240	3.78E-05
Pu-241	9.27E-02
Pu-242	1.92E-11

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W430

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	339.1	283.0	0.0	0.0	622.1

As-Generated	Stored	Projected	Total
	0.0	622.1	622.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	0.0	0.0	622.1

Final Form	Stored	Projected	Total
	0.0	622.1	622.1

TWBIR ID: RL-W430

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste stream is surplus facilities cleanout and D&D wastes, ranging from contaminated clothing to process equipment and sludges.
Waste Stream Source Description	Cleanout and D&D of all 100 Area Inactive Facalities (includung C, D, DR, KE, KW, H, F, and N reactors, 104F and H Storage Basins, 100N Deactivation, N Basin Cleanout, Emergency Dump Basin, and the Spacer Silo) and the following 200 Area Inactive Facilities: 202S (REDOX), 233S (Plutonium Concentration Facility), and 221S (U Plant).
Current Container Comments	Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W431

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W431	**Handling**	RH	**Stream Name**	327 Non-surplus Facility Mgmt Prg D&D MTRU/RH			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
D008A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	68.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	60.00	0.00	0.00
Other Inorganic Materials	35.00	0.00	0.00
Cellulosics	5.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	6.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.06E+00
Pu-238	9.74E-01
Pu-239	1.04E-02
Pu-240	8.41E-03
Pu-241	2.60E+02
Pu-242	3.65E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W431

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	8.9	0.0	0.0	8.9

As-Generated	Stored	0.0	Projected	8.9	Total	8.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	0.0	0.0	8.9

Final Form	Stored	0.0	Projected	8.9	Total	8.9

TWBIR ID: RL-W431

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste stream typically contains equipment including but not limited to saws, manipulators, hoists, hoods, lathes, and cabinetry.
Waste Stream Source Description	The waste stream is large tanks/dissolvers/pumps/concentrator. Size reduction is required to package the waste into RH canisters.
Current Container Comments	Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	The research and development roles expected to be assumed by 327 before closure have not been defined.
Final Form Comments	N/A

TWBIR ID: RL-W432

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W432	**Handling**	RH	**Stream Name**	202A Non-surplus Facility Mgmt Prg D&D MTRU/RH			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5110

EPA Codes

As-Generated
Uncompiled

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	241.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.90E-03
Ba-137m	9.30E-02
C-14	9.90E-04
Cs-137	9.80E-02
H-3	1.90E-04
I-129	4.10E-09
Np-237	1.70E-08
Pu-238	4.50E-04
Pu-239	1.10E-03
Pu-240	6.20E-04
Pu-241	1.80E-02
Pu-242	2.20E-07
Rh-106	2.60E-03
Ru-106	2.60E-03

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W432

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	14.2	21.4	0.0	35.6

As-Generated	Stored	Projected	Total
	0.0	35.6	35.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	0.0	0.0	35.6

Final Form	Stored	Projected	Total
	0.0	35.6	35.6

TWBIR ID: RL-W432

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Se-79	8.00E-07
Sm-151	1.60E-03
Sr-90	7.80E-02
U-234	1.70E-06
U-235	6.70E-08
U-236	2.20E-07
U-238	1.20E-06
Y-90	7.80E-02

Waste Stream Description	The waste stream is large tanks/dissolvers/pumps/concentrator. Size reduction is required to package the waste into RH canisters.
Waste Stream Source Description	Cleanout of contaminated equipment/removable piping etc. from PUREX facility.
Current Container Comments	Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W433

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W433	**Handling**	RH	**Stream Name**	Future RH-MTRU Waste Treatment Plant - Operations			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
Uncompiled

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	60.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	30.00	0.00	0.00
Other Inorganic Materials	75.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	7.00	0.00	0.00
Solidified, Inorganic Matrix	83.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	31.00	0.00	0.00
Soils	24.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.77E-03
Pu-238	1.72E-03
Pu-239	2.10E-05
Pu-240	3.78E-05
Pu-241	9.27E-02
Pu-242	1.92E-11

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W433

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	40.9	2.7	0.0	43.6

As-Generated	Stored	Projected	Total
	0.0	43.6	43.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	0.0	0.0	43.6

Final Form	Stored	Projected	Total
	0.0	43.6	43.6

TWBIR ID: RL-W433

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste stream ranges from contaminated clothing to process equipment, contaminated with RCRA regulated constituents.
Waste Stream Source Description	The waste stream is miscellaneous solid wastes from the operation of the planned HLW vitrification facility.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W434

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W434	**Handling**	RH	**Stream Name**	2345Z Non-surplus Facility Mgmt Prg D&D MTRU/RH			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5110

EPA Codes

As-Generated
D008A, D009A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	190.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	52.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.80E-01
Ba-137m	5.00E-01
C-14	7.50E-04
Cs-137	5.30E-01
H-3	1.00E-03
I-129	3.00E-07
Pu-238	9.10E-02
Pu-239	2.30E-01
Pu-240	1.30E-01
Pu-241	3.60E+00
Pu-242	4.50E-05
Se-79	4.30E-06
Sm-151	8.40E-03
Sr-90	4.20E-01

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W434

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	2509.8	0.0	0.0	2509.8

As-Generated	Stored	Projected	Total
	0.0	2509.8	2509.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	0.0	0.0	2509.8

Final Form	Stored	Projected	Total
	0.0	2509.8	2509.8

TWBIR ID: RL-W434

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
U-234	9.90E-04
U-235	3.90E-05
U-236	1.30E-04
U-238	7.00E-04
Y-90	4.20E-01

Waste Stream Description	This waste stream is major processing equipment, piping, ductwork, and gloveboxes resulting fron the cleanout and D&D of PFP.
Waste Stream Source Description	Cleanout and D&D of the Plutonium Finishinf Plant and Plutonium Processing Facility.
Current Container Comments	Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.
EPA Comments	Organics are expected to be very minimal due to attempts to minimize dangerous waste in packages by rinsing equipent thoroughly.
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W436

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W436	**Handling**	RH	**Stream Name**	Future RH-MTRU SST Long Length Equipment	**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
D002B, D007, F001, F002, F003, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	596.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.47E-01
Pu-238	9.47E-02
Pu-239	5.92E-03
Pu-240	5.05E-03
Pu-242	3.75E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W436

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	380.0	108.6	488.6

As-Generated	Stored	Projected	Total
	0.0	488.6	488.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.0	0.0	0.0	0.0	0.0	488.6

Final Form	Stored	Projected	Total
	0.0	488.6	488.6

TWBIR ID: RL-W436

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Equipment removed from the high level waste tanks (instrument trees, pumps, circulators, agitators, heaters, sluicers, steam coils, air lances, cameras)
Waste Stream Source Description	Future long-length equipment removed from Hanford's tanks.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W437

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W437	**Handling**	CH	**Stream Name**	Surplus Facility Mgmt Prg D&D TRU/CH			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	60.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	30.00	0.00	0.00
Other Inorganic Materials	75.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	7.00	0.00	0.00
Solidified, Inorganic Matrix	83.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	31.00	0.00	0.00
Soils	24.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.28E-02
Pu-238	2.36E-02
Pu-239	9.01E-01
Pu-240	2.02E-01
Pu-241	2.70E+00
Pu-242	1.21E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W437

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.0	571.6	28.1	0.0	0.0	759.4

As-Generated	Stored	0.0	Projected	759.4	Total	759.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	759.4

Final Form	Stored	0.0	Projected	759.4	Total	759.4

TWBIR ID: RL-W437

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste stream is surplus facilities cleanout and D&D wastes, ranging from contaminated clothing to process equipment and sludges.
Waste Stream Source Description	Cleanout and D&D of all 100 Area Inactive Facalities (includung C, D, DR, KE, KW, H, F, and N reactors, 104F and H Storage Basins, 100N Deactivation, N Basin Cleanout, Emergency Dump Basin, and the Spacer Silo) and the following 200 Area Inactive Facilities: 202S (REDOX), 233S (Plutonium Concentration Facility), and 221S (U Plant).
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W438

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W438	**Handling**	CH	**Stream Name**	Future CH-TRU 200 Area Accelerated Deactivation			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5900

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	28.57	28.57	28.57
Other Inorganic Materials	9.47	9.47	75.76
Cellulosics	66.67	66.67	66.67
Rubber	123.40	99.29	208.14
Plastics	33.33	33.33	33.33
Solidified, Inorganic Matrix	0.96	0.43	1.43
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	325.10	295.24	337.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.12E-05
Pu-238	1.28E-05
Pu-239	4.68E-04
Pu-240	1.05E-04
Pu-241	1.79E-03
Pu-242	6.32E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W438

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.0	1.7	0.8	0.0	0.0	2.5

As-Generated	Stored	Projected	Total
	0.0	2.5	2.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	2.5

Final Form	Stored	Projected	Total
	0.0	2.5	2.5

TWBIR ID: RL-W438

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Description is presently not available; however typical deactivation waste includes cleanout and removal of equipment, mixers, tanks, vessels and pumps.
Waste Stream Source Description	This represents wastes from deactivation in the 200 Areas
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W439

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W439	**Handling**	CH	**Stream Name**	Environmental Restoration Program TRU/CH Soils			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Soils	**Waste Matrix Code**	S4200

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	324.00	162.00	324.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.05E-01
Ba-137m	2.68E-03
Cs-137	2.91E-03
Pu-238	2.99E-01
Pu-239	3.84E+00
Pu-240	8.53E-01
Pu-241	2.12E+01
Pu-242	4.93E-05
Sr-90	2.67E-03
Tc-99	5.73E-07
Y-90	2.67E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W439

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.0	3121.0	1529.8	0.0	0.0	5935.7

As-Generated	Stored	Projected	Total
	0.0	5935.7	5935.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	5935.7

Final Form	Stored	Projected	Total
	0.0	5935.7	5935.7

TWBIR ID: RL-W439

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream consists of soil contaminated with liquid solutions, previously buried solid waste, and associated contaminated soil, and sludges from previously used tanks or tank-like units.
Waste Stream Source Description	The waste is from retrieval of contaminated soils. The waste may also include solid waste from past practice burial grounds and solidified sludge from miscellaneous past practice tanks.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W443

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W443	**Handling**	CH	**Stream Name**	Surplus Facility Mgmt Prg D&D MTRU/CH			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
D001C, D002B, D009X

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	68.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	60.00	0.00	0.00
Other Inorganic Materials	35.00	0.00	0.00
Cellulosics	5.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.28E-02
Pu-238	2.36E-02
Pu-239	9.01E-01
Pu-240	2.02E-01
Pu-241	2.70E+00
Pu-242	1.21E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W443

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.0	157.9	450.7	0.0	0.0	668.5

As-Generated	Stored	Projected	Total
	0.0	668.5	668.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	668.5

Final Form	Stored	Projected	Total
	0.0	668.5	668.5

TWBIR ID: RL-W443

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste stream is surplus facilities cleanout and D&D wastes, ranging from contaminated clothing to process equipment and sludges.
Waste Stream Source Description	Cleanout and D&D of all 100 Area Inactive Facilities (includung C, D, DR, KE, KW, H, F, and N reactors, 104F and H Storage Basins, 100N Deactivation, N Basin Cleanout, Emergency Dump Basin, and the Spacer Silo) and the following 200 Area Inactive Facilities: 202S (REDOX), 233S (Plutonium Concentration Facility), and 221S (U Plant).
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W444

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W444	**Handling**	CH	**Stream Name**	Future CH-MTRU SST Long Length Equipment			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
Uncompiled

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	68.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	60.00	0.00	0.00
Other Inorganic Materials	35.00	0.00	0.00
Cellulosics	5.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	6.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.28E-02
Pu-238	2.36E-02
Pu-239	9.01E-01
Pu-240	2.02E-01
Pu-241	2.70E+00
Pu-242	1.21E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W444

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	0.0	0.0	0.0	385.7	110.2	495.9

As-Generated	Stored	0.0	Projected	495.9	Total	495.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	0.0	0.0	0.0	0.0	0.0	495.9

Final Form	Stored	0.0	Projected	495.9	Total	495.9

TWBIR ID: RL-W444

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Description is presently not available; however typical deactivation waste includes cleanout and removal of equipment, mixers, tanks, vessels and pumps.
Waste Stream Source Description	Future long-length equipment removed from Hanford's tanks.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W445

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W445	**Handling**	RH	**Stream Name**	105KE TRU RH solidified inorganic S3150 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3150

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	212.02	210.69	213.34
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	7.91	7.91	7.91
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	778.27	766.90	789.64
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.47E+00
Ba-137m	2.10E+00
Cs-137	1.11E+00
Pu-238	9.23E-01
Pu-239	7.10E-03
Pu-240	1.27E-02
Pu-241	2.87E+02
Sr-90	1.14E+00
Y-90	2.39E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W445

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	15.1	115.7	0.0	0.0	0.0	130.8

As-Generated	Stored	15.1	Projected	115.7	Total	130.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	15.1	0.0	0.0	0.0	0.0	130.8

Final Form	Stored	15.1	Projected	115.7	Total	130.8

TWBIR ID: RL-W445

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REACTOR FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REACTOR FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W446

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W446	**Handling**	RH	**Stream Name**	105KE TRU RH inorganic non-metal S5121 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5121

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	304.81	231.62	354.62
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	1955.60	1905.15	2029.74
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	15.19	11.54	17.67
Solidified, Inorganic Matrix	56.98	43.30	66.29
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.93E+00
Ba-137m	3.35E+00
Cs-137	1.77E+00
Pu-238	1.10E+00
Pu-239	1.08E-02
Pu-240	2.34E-02
Pu-241	8.61E+02
Pu-242	1.68E-07
Sr-90	1.57E+00
Y-90	3.15E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W446

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	22.3	0.0	0.0	0.0	0.0	22.3

As-Generated	Stored	22.3	Projected	0.0	Total	22.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	22.3	0.0	0.0	0.0	0.0	22.3

Final Form	Stored	22.3	Projected	0.0	Total	22.3

TWBIR ID: RL-W446

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REACTOR FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REACTOR FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W447

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W447	**Handling**	CH	**Stream Name**	201C MTRU CH soils S4100 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Soils	**Waste Matrix Code**	S4100

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	28.78	28.57	38.24
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	66.67	66.67	66.67
Rubber	0.00	0.00	0.00
Plastics	33.33	33.33	33.33
Solidified, Inorganic Matrix	1.17	0.19	4.62
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	443.11	251.95	565.05
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.18E-04
Pu-238	2.94E-04
Pu-239	1.08E-02
Pu-240	2.42E-03
Pu-241	4.12E-02
Pu-242	1.46E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W447

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	9.9	0.0	0.0	0.0	0.0	9.9

As-Generated	Stored	9.9	Projected	0.0	Total	9.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	9.9	0.0	0.0	0.0	0.0	9.9

Final Form	Stored	9.9	Projected	0.0	Total	9.9

TWBIR ID: RL-W447

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Remediation/D&D Waste activities at the PROCESS BUILDING, 3 HOT CELLS (DEMO'D).
Waste Stream Source Description	The waste is generated from Remediation/D&D Waste activities at the PROCESS BUILDING, 3 HOT CELLS (DEMO'D).
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W448

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W448	**Handling**	CH	**Stream Name**	201C MTRU CH heterogeneous S5900 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5900

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	28.57	28.57	28.57
Other Inorganic Materials	9.47	9.47	75.76
Cellulosics	66.67	66.67	66.67
Rubber	123.40	99.29	208.14
Plastics	33.33	33.33	33.33
Solidified, Inorganic Matrix	0.96	0.43	1.43
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	325.10	295.24	337.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.12E-05
Pu-238	1.28E-05
Pu-239	4.68E-04
Pu-240	1.05E-04
Pu-241	1.79E-03
Pu-242	6.32E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W448

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.7	0.0	0.0	0.0	0.0	1.7

As-Generated	Stored	Projected	Total
	1.7	0.0	1.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.7	0.0	0.0	0.0	0.0	1.7

Final Form	Stored	Projected	Total
	1.7	0.0	1.7

TWBIR ID: RL-W448

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Remediation/D&D Waste activities at the PROCESS BUILDING, 3 HOT CELLS (DEMO'D).
Waste Stream Source Description	The waste is generated from Remediation/D&D Waste activities at the PROCESS BUILDING, 3 HOT CELLS (DEMO'D).
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W449

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W449	**Handling**	CH	**Stream Name**	202A MTRU CH solidified inorganic S3119 Mixed RCRA w/ org,met,Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.01	0.00	0.01
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	73.33	71.43	74.29
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	109.89	64.80	200.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	66.59	31.31	105.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.22E+00
Pu-238	7.49E-04
Pu-239	2.14E-02
Pu-240	4.80E-03
Pu-241	5.20E-02
Pu-242	2.89E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W449

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0

As-Generated	Stored	1.0	Projected	0.0	Total	1.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0

Final Form	Stored	1.0	Projected	0.0	Total	1.0

TWBIR ID: RL-W449

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W450

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W450	**Handling**	CH	**Stream Name**	202A MTRU CH solidified inorganic S3119 Mixed RCRA w/ org,ign			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	71.43	71.43	71.43
Other Inorganic Materials	11.90	11.90	11.90
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	21.67	21.67	21.67
Solidified, Inorganic Matrix	56.07	55.00	57.14
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.41E-04
Pu-238	3.86E-04
Pu-239	1.41E-02
Pu-240	3.17E-03
Pu-241	5.40E-02
Pu-242	1.91E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W450

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8

As-Generated	Stored	0.8	Projected	0.0	Total	0.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8

Final Form	Stored	0.8	Projected	0.0	Total	0.8

TWBIR ID: RL-W450

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W451

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W451	**Handling**	CH	**Stream Name**	202A MTRU CH solidified inorganic S3119 Mixed RCRA w/ org			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	71.43	71.43	71.43
Other Inorganic Materials	7.98	7.98	7.98
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	21.19	21.19	21.19
Solidified, Inorganic Matrix	44.17	44.17	44.17
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.68E-04
Pu-238	1.10E-04
Pu-239	4.03E-03
Pu-240	9.03E-04
Pu-241	1.54E-02
Pu-242	5.44E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W451

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W451

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W452

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W452	**Handling**	CH	**Stream Name**	202A MTRU CH uncategorized metal S5119 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	90.39	90.39	90.39
Other Inorganic Materials	0.96	0.96	0.96
Cellulosics	9.03	9.03	9.03
Rubber	0.00	0.00	0.00
Plastics	19.92	19.92	19.92
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.08E-04
Pu-238	2.61E-04
Pu-239	9.80E-03
Pu-240	2.20E-03
Pu-241	3.24E-02
Pu-242	1.32E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W452

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	7.6	0.0	0.0	0.0	0.0	7.6

As-Generated	Stored	Projected	Total
	7.6	0.0	7.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	7.6	0.0	0.0	0.0	0.0	7.6

Final Form	Stored	Projected	Total
	7.6	0.0	7.6

TWBIR ID: RL-W452

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W453

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W453	**Handling**	CH	**Stream Name**	202A MTRU CH inorganic non-metal S5190 Mixed State Reg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5190

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	182.40	182.40	182.40
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	39.20	39.20	39.20
Other Inorganic Materials	342.00	342.00	342.00
Cellulosics	1.20	1.20	1.20
Rubber	0.00	0.00	0.00
Plastics	12.96	12.96	12.96
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.35E-03
Pu-238	2.67E-03
Pu-239	1.02E-01
Pu-240	2.28E-02
Pu-241	3.05E-01
Pu-242	1.37E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W453

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W453

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W454

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W454	**Handling**	CH	**Stream Name**	202A TRU CH combustible S5319 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5319

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	4.80	4.80	4.80
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	24.00	24.00	24.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	1.20	1.20	1.20
Rubber	24.00	24.00	24.00
Plastics	105.12	105.12	105.12
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.31E-01
Pu-238	3.73E-02
Pu-239	1.42E+00
Pu-240	3.18E-01
Pu-241	4.27E+00
Pu-242	1.92E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W454

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W454

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W455

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W455	**Handling**	CH	**Stream Name**	202A MTRU CH combustible S5319 Mixed RCRA w/ met,cor			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5319

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	63.57	63.57	63.57
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.95	0.95	0.95
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	9.52	9.52	9.52
Rubber	0.00	0.00	0.00
Plastics	131.14	131.14	131.14
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.11E-02
Pu-238	1.00E-02
Pu-239	3.77E-01
Pu-240	8.44E-02
Pu-241	1.25E+00
Pu-242	5.08E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W455

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W455

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W456

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W456	**Handling**	CH	**Stream Name**	202A MTRU CH combustible S5319 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5319

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	54.32	2.40	223.91
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	26.22	0.48	84.37
Other Inorganic Materials	1.25	1.25	15.47
Cellulosics	5.41	1.20	66.02
Rubber	47.33	1.09	108.03
Plastics	73.43	4.32	233.67
Solidified, Inorganic Matrix	1.41	1.41	46.57
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.04E-01
Pu-238	3.06E-02
Pu-239	1.16E+00
Pu-240	2.60E-01
Pu-241	3.58E+00
Pu-242	1.57E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W456

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	9.0	0.0	0.0	0.0	0.0	9.0

As-Generated	Stored	Projected	Total
	9.0	0.0	9.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	9.0	0.0	0.0	0.0	0.0	9.0

Final Form	Stored	Projected	Total
	9.0	0.0	9.0

TWBIR ID: RL-W456

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W457

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W457	**Handling**	CH	**Stream Name**	202A MTRU CH combustible S5319 Mixed State Reg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5319

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	25.60	19.20	57.60
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	24.00	24.00	72.00
Other Inorganic Materials	2.88	2.88	8.64
Cellulosics	7.20	1.20	18.00
Rubber	1.20	1.20	2.40
Plastics	117.60	112.32	122.40
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.45E-01
Pu-238	4.26E-02
Pu-239	1.62E+00
Pu-240	3.62E-01
Pu-241	4.97E+00
Pu-242	2.18E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W457

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	Projected	Total
	0.6	0.0	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	Projected	Total
	0.6	0.0	0.6

TWBIR ID: RL-W457

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W458

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W458	**Handling**	CH	**Stream Name**	202A MTRU CH filter S5410 Mixed RCRA w/ met,Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.48	0.48	0.48
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	6.67	6.67	6.67
Other Inorganic Materials	23.81	23.81	23.81
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	7.14	7.14	7.14
Solidified, Inorganic Matrix	28.57	28.57	28.57
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.33E-01
Ba-137m	4.49E-04
Cs-137	4.88E-04
Pu-238	6.51E-01
Pu-239	1.99E+00
Pu-240	1.11E+00
Pu-241	5.99E+01
Pu-242	4.04E-04
Sr-90	4.45E-04
Tc-99	1.04E-07
Y-90	4.45E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W458

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W458

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W459

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W459	**Handling**	CH	**Stream Name**	202A MTRU CH filter S5410 Mixed State Reg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	6.85	2.11	48.10
Other Inorganic Materials	74.43	39.68	117.62
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	4.62	1.05	28.57
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	152.42		
Packaging Material, Plastic	3.66		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.85E-01
Ba-137m	7.70E-04
Cs-137	8.38E-04
Pu-238	2.31E-01
Pu-239	1.70E+00
Pu-240	5.22E-01
Pu-241	2.04E+01
Pu-242	1.17E-04
Sr-90	7.64E-04
Tc-99	1.79E-07
Y-90	7.64E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W459

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Standard Waste Box	5.7	0.0	0.0	0.0	0.0	5.7

As-Generated	Stored	6.1	Projected	0.0	Total	6.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Standard Waste Box	5.7	0.0	0.0	0.0	0.0	5.7

Final Form	Stored	6.1	Projected	0.0	Total	6.1

TWBIR ID: RL-W459

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W460

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W460	**Handling**	CH	**Stream Name**	202A TRU CH heterogeneous S5420 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	240.00	240.00	240.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	36.00	36.00	36.00
Rubber	0.00	0.00	0.00
Plastics	28.80	28.80	28.80
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.28E-02
Pu-238	2.36E-02
Pu-239	9.01E-01
Pu-240	2.02E-01
Pu-241	2.70E+00
Pu-242	1.21E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W460

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W460

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W461

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W461	**Handling**	CH	**Stream Name**	202A MTRU CH heterogeneous S5420 Mixed RCRA w/ org,met,Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.06	0.06	0.06
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	352.76	352.76	352.76
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	54.00	54.00	54.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.01	0.01	0.01
Soils	297.99	297.99	297.99
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.12E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W461

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W461

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W462

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W462	**Handling**	CH	**Stream Name**	202A MTRU CH heterogeneous S5420 Mixed RCRA w/ met,cor			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	214.71	214.71	214.71
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	2.90	2.90	2.90
Rubber	21.43	21.43	21.43
Plastics	27.62	27.62	27.62
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.97E-02
Pu-238	6.84E-03
Pu-239	2.55E-01
Pu-240	5.70E-02
Pu-241	8.84E-01
Pu-242	3.44E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W462

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W462

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W463

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W463	**Handling**	CH	**Stream Name**	202A MTRU CH heterogeneous S5420 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	72.00	72.00	143.38
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	210.82	196.90	224.63
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	6.02	1.24	10.75
Rubber	7.15	2.39	11.96
Plastics	65.71	17.21	114.64
Solidified, Inorganic Matrix	14.52	14.52	29.17
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.07E-02
Pu-238	1.73E-02
Pu-239	6.61E-01
Pu-240	1.48E-01
Pu-241	1.98E+00
Pu-242	8.92E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W463

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W463

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W464

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W464	**Handling**	CH	**Stream Name**	202A TRU CH heterogeneous S5440 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	69.60	19.20	120.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	38.40	4.80	72.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	19.92	3.84	36.00
Rubber	24.00	24.00	48.00
Plastics	59.04	54.72	63.36
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.80E-02
Pu-238	7.99E-03
Pu-239	3.04E-01
Pu-240	6.82E-02
Pu-241	9.14E-01
Pu-242	4.11E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W464

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W464

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W465

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W465	**Handling**	CH	**Stream Name**	202A MTRU CH heterogeneous S5440 Mixed RCRA w/ met,cor			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	100.07	20.38	199.10
Aluminum-Base Metal/Alloys	0.48	0.48	1.92
Other Metal/Alloys	89.03	76.80	199.71
Other Inorganic Materials	0.72	0.72	2.88
Cellulosics	7.79	2.64	10.80
Rubber	41.75	0.48	123.33
Plastics	56.58	40.48	79.20
Solidified, Inorganic Matrix	6.63	6.63	26.52
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.48E-02
Pu-238	2.70E-02
Pu-239	1.01E+00
Pu-240	2.27E-01
Pu-241	3.32E+00
Pu-242	1.37E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W465

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8

As-Generated	Stored	Projected	Total
	0.8	0.0	0.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8

Final Form	Stored	Projected	Total
	0.8	0.0	0.8

TWBIR ID: RL-W465

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W466

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W466	**Handling**	CH	**Stream Name**	202A MTRU CH heterogeneous S5440 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	91.57	2.28	302.94
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	61.17	4.80	269.59
Other Inorganic Materials	1.30	1.30	45.37
Cellulosics	7.77	0.95	32.36
Rubber	39.47	1.81	162.78
Plastics	57.54	4.80	115.66
Solidified, Inorganic Matrix	8.18	1.43	78.28
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.21E-02
Pu-238	2.20E-02
Pu-239	8.30E-01
Pu-240	1.86E-01
Pu-241	2.63E+00
Pu-242	1.12E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W466

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	14.1	0.0	0.0	0.0	0.0	14.1

As-Generated	Stored	14.1	Projected	0.0	Total	14.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	14.1	0.0	0.0	0.0	0.0	14.1

Final Form	Stored	14.1	Projected	0.0	Total	14.1

TWBIR ID: RL-W466

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W467

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W467	**Handling**	CH	**Stream Name**	202A MTRU CH heterogeneous S5440 Mixed RCRA w/ met,Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	55.22	21.24	218.08
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	13.98	12.43	32.09
Other Inorganic Materials	1.16	0.76	4.30
Cellulosics	15.22	2.87	33.37
Rubber	60.64	3.35	182.02
Plastics	46.82	26.32	80.27
Solidified, Inorganic Matrix	35.07	35.07	76.97
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.75E-02
Pu-238	1.27E-02
Pu-239	4.73E-01
Pu-240	1.06E-01
Pu-241	1.61E+00
Pu-242	6.38E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W467

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.3	0.0	0.0	0.0	0.0	1.3

As-Generated	Stored	1.3	Projected	0.0	Total	1.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.3	0.0	0.0	0.0	0.0	1.3

Final Form	Stored	1.3	Projected	0.0	Total	1.3

TWBIR ID: RL-W467

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W468

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W468	**Handling**	CH	**Stream Name**	202A MTRU CH heterogeneous S5440 Mixed RCRA w/cor			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	1.67	1.67	1.67
Other Inorganic Materials	9.52	9.52	9.52
Cellulosics	19.76	19.76	19.76
Rubber	2.76	2.76	2.76
Plastics	23.43	23.43	23.43
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.12E-03
Pu-238	3.90E-04
Pu-239	1.45E-02
Pu-240	3.25E-03
Pu-241	5.04E-02
Pu-242	1.96E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W468

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W468

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W469

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W469	**Handling**	CH	**Stream Name**	202A MTRU CH heterogeneous S5440 Mixed State Reg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	80.53	23.97	223.68
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	43.79	7.59	76.69
Other Inorganic Materials	1.59	1.59	9.59
Cellulosics	9.18	1.20	17.97
Rubber	9.20	1.20	53.92
Plastics	76.97	19.86	112.16
Solidified, Inorganic Matrix	4.84	4.84	29.26
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.65E-02
Pu-238	2.61E-02
Pu-239	9.87E-01
Pu-240	2.21E-01
Pu-241	3.10E+00
Pu-242	1.33E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W469

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.3	0.0	0.0	0.0	0.0	1.3

As-Generated	Stored	1.3	Projected	0.0	Total	1.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.3	0.0	0.0	0.0	0.0	1.3

Final Form	Stored	1.3	Projected	0.0	Total	1.3

TWBIR ID: RL-W469

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W470

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W470	**Handling**	CH	**Stream Name**	202A MTRU CH heterogeneous S5900 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5900

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	37.10	37.10	37.10
Other Inorganic Materials	5.33	5.33	5.33
Cellulosics	1.19	1.19	1.19
Rubber	1.90	1.90	1.90
Plastics	21.05	21.05	21.05
Solidified, Inorganic Matrix	14.33	14.33	14.33
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.06E+00
Ba-137m	9.62E-05
Cs-137	1.05E-04
Pu-238	7.30E+00
Pu-239	2.19E+01
Pu-240	1.13E+01
Pu-241	7.47E+02
Pu-242	4.93E-03
Sr-90	9.58E-05
Tc-99	2.08E-08
Y-90	9.58E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W470

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: RL-W470

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W474

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W474	**Handling**	CH	**Stream Name**	202A TRU CH uncategorized metal S5119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	101.96	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	16.93	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	1.05	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.38E-01
Pu-238	8.92E-02
Pu-239	5.57E-03
Pu-240	4.76E-03
Pu-242	3.53E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W474

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated	Stored	Projected	Total
	1.9	0.0	1.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	Projected	Total
	1.9	0.0	1.9

TWBIR ID: RL-W474

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W476

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W476	**Handling**	CH	**Stream Name**	202A TRU CH combustible S5390 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	2.11	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	10.95	0.00	0.00
Other Inorganic Materials	27.38	0.00	0.00
Cellulosics	47.34	0.00	0.00
Rubber	1.18	0.00	0.00
Plastics	59.70	0.00	0.00
Solidified, Inorganic Matrix	1.26	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.09E-02
Ba-137m	1.71E-02
Cs-137	1.86E-02
Pu-238	1.27E-02
Pu-239	4.81E-01
Pu-240	1.08E-01
Pu-241	1.48E+00
Pu-242	6.48E-06
Sr-90	1.68E-02
Tc-99	4.62E-06
Y-90	1.68E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W476

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	4.8	0.0	0.0	0.0	0.0	4.8

As-Generated	Stored	4.8	Projected	0.0	Total	4.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	4.8	0.0	0.0	0.0	0.0	4.8

Final Form	Stored	4.8	Projected	0.0	Total	4.8

TWBIR ID: RL-W476

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W480

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W480	**Handling**	CH	**Stream Name**	202AL MTRU CH combustible S5319 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5319

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	185.45	128.90	242.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	23.19	23.19	46.38
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	283.76	268.38	299.14
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Analytical Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.18E-02
Pu-238	2.32E-02
Pu-239	8.70E-01
Pu-240	1.95E-01
Pu-241	2.88E+00
Pu-242	1.17E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W480

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W480

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Analytical Laboratory Waste activities at the PUREX PROCESS LABORATORY.
Waste Stream Source Description	The waste is generated from Analytical Laboratory Waste activities at the PUREX PROCESS LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W481

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W481	**Handling**	CH	**Stream Name**	202AL MTRU CH heterogeneous S5440 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	46.84	20.38	79.19
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	258.54	184.19	319.24
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.73	0.73	2.19
Rubber	0.00	0.00	0.00
Plastics	104.62	69.29	125.52
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Analytical Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.50E-02
Pu-238	2.43E-02
Pu-239	9.10E-01
Pu-240	2.04E-01
Pu-241	3.01E+00
Pu-242	1.23E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W481

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	0.6	Projected	0.0	Total	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	0.6	Projected	0.0	Total	0.6

TWBIR ID: RL-W481

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Analytical Laboratory Waste activities at the PUREX PROCESS LABORATORY.
Waste Stream Source Description	The waste is generated from Analytical Laboratory Waste activities at the PUREX PROCESS LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W482

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W482	**Handling**	CH	**Stream Name**	202AL TRU CH combustible S5390 Non-mixed	**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	11.07	0.00	0.00
Other Inorganic Materials	45.78	0.00	0.00
Cellulosics	22.51	0.00	0.00
Rubber	1.33	0.00	0.00
Plastics	25.05	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Analytical Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.52E+01
Pu-238	2.04E+00
Pu-239	2.92E-02
Pu-240	5.46E-02
Pu-241	1.01E+03
Pu-242	3.66E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W482

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	2.5	0.0	0.0	0.0	0.0	2.5

As-Generated	Stored	2.5	Projected	0.0	Total	2.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	2.5	0.0	0.0	0.0	0.0	2.5

Final Form	Stored	2.5	Projected	0.0	Total	2.5

TWBIR ID: RL-W482

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Analytical Laboratory Waste activities at the PUREX PROCESS LABORATORY.
Waste Stream Source Description	The waste is generated from Analytical Laboratory Waste activities at the PUREX PROCESS LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W483

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W483	**Handling**	CH	**Stream Name**	202AL TRU CH heterogeneous S5440 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	19.97	0.00	0.00
Other Inorganic Materials	51.97	0.00	0.00
Cellulosics	20.83	0.00	0.00
Rubber	0.24	0.00	0.00
Plastics	28.09	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Analytical Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.52E+00
Pu-238	3.80E-01
Pu-239	4.54E-03
Pu-240	9.29E-03
Pu-241	1.81E+02
Pu-242	2.28E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W483

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0

As-Generated	Stored	1.0	Projected	0.0	Total	1.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0

Final Form	Stored	1.0	Projected	0.0	Total	1.0

TWBIR ID: RL-W483

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Analytical Laboratory Waste activities at the PUREX PROCESS LABORATORY.
Waste Stream Source Description	The waste is generated from Analytical Laboratory Waste activities at the PUREX PROCESS LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W484

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W484	**Handling**	CH	**Stream Name**	202S MTRU CH combustible S5319 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5319

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	3.57	3.57	7.14
Aluminum-Base Metal/Alloys	1.19	1.19	3.57
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	2.38	2.38	3.57
Rubber	0.00	0.00	0.00
Plastics	51.92	49.54	56.68
Solidified, Inorganic Matrix	3.57	3.57	3.57
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.99E-02
Ba-137m	6.01E-01
Cs-137	6.54E-01
Pu-238	3.78E-03
Pu-239	7.85E-02
Pu-240	1.88E-02
Pu-241	1.85E-01
Pu-242	1.00E-06
Sr-90	5.99E-01
Tc-99	1.30E-04
Y-90	5.99E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W484

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8

As-Generated	Stored	0.8	Projected	0.0	Total	0.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8

Final Form	Stored	0.8	Projected	0.0	Total	0.8

TWBIR ID: RL-W484

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Remediation/D&D Waste activities at the REDOX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Remediation/D&D Waste activities at the REDOX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W485

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W485	**Handling**	CH	**Stream Name**	202S MTRU CH combustible S5319 Mixed RCRA/TSCA-PCB w/Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5319

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	2.83	2.83	2.83
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	5.57	5.57	5.57
Rubber	2.83	2.83	2.83
Plastics	47.30	47.30	47.30
Solidified, Inorganic Matrix	0.48	0.48	0.48
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	Yes
Source:	Remediation/D&D Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.32E-02
Pu-238	2.14E-03
Pu-239	3.39E-02
Pu-240	8.15E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W485

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: RL-W485

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Remediation/D&D Waste activities at the REDOX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Remediation/D&D Waste activities at the REDOX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W486

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W486	**Handling**	CH	**Stream Name**	202S MTRU CH heterogeneous S5440 Mixed RCRA/TSCA-PCB w/Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	1.17	1.17	1.17
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	2.33	2.33	2.33
Rubber	1.17	1.17	1.17
Plastics	22.00	22.00	22.00
Solidified, Inorganic Matrix	3.95	3.95	3.95
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	Yes
Source:	Remediation/D&D Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.56E-03
Pu-238	9.02E-04
Pu-239	1.43E-02
Pu-240	3.42E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W486

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W486

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Remediation/D&D Waste activities at the REDOX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Remediation/D&D Waste activities at the REDOX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W487

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W487	**Handling**	CH	**Stream Name**	222S MTRU CH solidified inorganic S3119 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RL	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	931.43	931.43	931.43
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	34.29	34.29	34.29
Solidified, Inorganic Matrix	66.67	66.67	66.67
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	31.43	31.43	31.43
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Non-defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Analytical Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.73E-01
Pu-238	1.16E-01
Pu-239	2.05E+00
Pu-240	5.67E-01
Pu-241	6.91E+00
Pu-242	4.95E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W487

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: RL-W487

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Analytical Laboratory Waste activities at the CONTROL LABORATORY.
Waste Stream Source Description	The waste is generated from Analytical Laboratory Waste activities at the CONTROL LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W488

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W488	**Handling**	CH	**Stream Name**	222S MTRU CH heterogeneous S5440 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	5.62	5.62	5.62
Other Inorganic Materials	57.81	57.81	57.81
Cellulosics	52.81	52.81	52.81
Rubber	0.00	0.00	0.00
Plastics	44.71	44.71	44.71
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	24.29	24.29	24.29
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Non-defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Analytical Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	6.31E-03
Cs-137	6.86E-03
Sr-90	6.26E-03
Tc-99	1.46E-06
Y-90	6.26E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W488

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W488

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Analytical Laboratory Waste activities at the CONTROL LABORATORY.
Waste Stream Source Description	The waste is generated from Analytical Laboratory Waste activities at the CONTROL LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W489

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W489	**Handling**	CH	**Stream Name**	231Z MTRU CH inorganic non-metal S5190 Mixed State Reg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5190

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	174.76	174.76	174.76
Other Inorganic Materials	2.38	2.38	2.38
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	14.29	14.29	14.29
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.69E-01
Ba-137m	5.27E-03
Cs-137	5.72E-03
Pu-238	1.09E-01
Pu-239	2.66E+00
Pu-240	6.05E-01
Pu-241	1.12E+01
Pu-242	2.69E-05
Sr-90	5.22E-03
Tc-99	1.25E-06
Y-90	5.22E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W489

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: RL-W489

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the MATERIALS ENGINEERING LABORATORY.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the MATERIALS ENGINEERING LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W490

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W490	**Handling**	CH	**Stream Name**	231Z MTRU CH filter S5410 Mixed State Reg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	48.47	48.47	48.47
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	1.05	1.05	1.05
Solidified, Inorganic Matrix	0.65	0.65	0.65
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Non-defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	3.48E-05
Cs-137	3.79E-05
Sr-90	3.45E-05
Tc-99	8.08E-09
Y-90	3.45E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W490

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated	Stored	Projected	Total
	1.9	0.0	1.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	Projected	Total
	1.9	0.0	1.9

TWBIR ID: RL-W490

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the MATERIALS ENGINEERING LABORATORY.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the MATERIALS ENGINEERING LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W491

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W491	**Handling**	CH	**Stream Name**	231Z MTRU CH heterogeneous S5420 Mixed RCRA w/ met,Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	173.33	173.33	173.33
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.95	0.95	0.95
Rubber	0.00	0.00	0.00
Plastics	22.86	22.86	22.86
Solidified, Inorganic Matrix	66.66	66.66	66.66
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.55E-02
Ba-137m	4.39E-03
Cs-137	4.77E-03
Pu-238	9.23E-02
Pu-239	2.79E-01
Pu-240	6.13E-02
Pu-241	4.05E+00
Pu-242	1.30E-05
Sr-90	4.35E-03
Tc-99	1.04E-06
Y-90	4.35E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W491

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W491

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the MATERIALS ENGINEERING LABORATORY.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the MATERIALS ENGINEERING LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W492

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W492	**Handling**	CH	**Stream Name**	231Z MTRU CH heterogeneous S5420 Mixed State Reg	**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	47.62	47.62	47.62
Other Inorganic Materials	4.29	4.29	4.29
Cellulosics	70.00	70.00	70.00
Rubber	0.00	0.00	0.00
Plastics	5.71	5.71	5.71
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.81E-03
Ba-137m	4.39E-04
Cs-137	4.77E-04
Pu-238	2.28E-03
Pu-239	5.55E-02
Pu-240	1.26E-02
Pu-241	2.33E-01
Pu-242	5.61E-07
Sr-90	4.35E-04
Tc-99	1.04E-07
Y-90	4.35E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W492

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W492

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the MATERIALS ENGINEERING LABORATORY.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the MATERIALS ENGINEERING LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W493

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W493	**Handling**	CH	**Stream Name**	231Z MTRU CH heterogeneous S5440 Mixed State Reg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	9.52	9.52	9.52
Cellulosics	148.57	148.57	148.57
Rubber	0.00	0.00	0.00
Plastics	11.43	11.43	11.43
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	6.31E-03
Cs-137	6.86E-03
Sr-90	6.26E-03
Tc-99	1.46E-06
Y-90	6.26E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W493

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W493

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the MATERIALS ENGINEERING LABORATORY.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the MATERIALS ENGINEERING LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W494

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W494	**Handling**	CH	**Stream Name**	231Z TRU CH solidified inorganic S3119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	71.25	0.00	0.00
Other Inorganic Materials	0.13	0.00	0.00
Cellulosics	4.46	0.00	0.00
Rubber	1.06	0.00	0.00
Plastics	13.97	0.00	0.00
Solidified, Inorganic Matrix	63.37	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.00E-01
Pu-238	3.57E-01
Pu-239	3.81E-03
Pu-240	3.27E-03
Pu-241	2.53E+01
Pu-242	2.94E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W494

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	77.5	0.0	0.0	0.0	0.0	77.5

As-Generated	Stored	77.5	Projected	0.0	Total	77.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	77.5	0.0	0.0	0.0	0.0	77.5

Final Form	Stored	77.5	Projected	0.0	Total	77.5

TWBIR ID: RL-W494

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the MATERIALS ENGINEERING LABORATORY.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the MATERIALS ENGINEERING LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W495

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W495	**Handling**	CH	**Stream Name**	231Z TRU CH uncategorized metal S5119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	353.84	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	16.11	0.00	0.00
Solidified, Inorganic Matrix	9.61	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.33E+00
Pu-238	1.81E-01
Pu-239	6.79E-03
Pu-240	5.43E-03
Pu-241	8.58E+01
Pu-242	1.67E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W495

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W495

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the MATERIALS ENGINEERING LABORATORY.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the MATERIALS ENGINEERING LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W496

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W496	**Handling**	CH	**Stream Name**	231Z TRU CH heterogeneous S5420 Non-mixed	**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	644.69	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	2.40	0.00	0.00
Rubber	9.63	0.00	0.00
Plastics	28.84	0.00	0.00
Solidified, Inorganic Matrix	14.42	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.94	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.74E+01
Pu-238	4.17E+00
Pu-239	4.47E-02
Pu-240	3.60E-02
Pu-241	1.11E+03
Pu-242	1.56E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W496

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W496

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the MATERIALS ENGINEERING LABORATORY.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the MATERIALS ENGINEERING LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W497

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W497	**Handling**	CH	**Stream Name**	233S TRU CH inorganic non-metal S5190 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5190

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.95	0.95	0.95
Other Inorganic Materials	97.38	97.38	97.38
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	17.26	17.26	17.26
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.46	0.46	0.46
Soils	48.95	48.95	48.95
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Remediation/D&D Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.31E+00
Pu-238	8.12E-01
Pu-239	2.66E+00
Pu-240	1.21E+00
Pu-241	2.88E+01
Pu-242	2.24E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W497

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W497

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Remediation/D&D Waste activities at the PLUTONIUM CONCENTRATION FACILITY.
Waste Stream Source Description	The waste is generated from Remediation/D&D Waste activities at the PLUTONIUM CONCENTRATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W498

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W498	**Handling**	CH	**Stream Name**	2345Z MTRU CH solidified organics L2290 Mixed RCRA/TSCA-PCB w/ ign			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	L2290

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.96	0.96	4.80
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	50.11	36.00	70.56
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	124.80	96.00	144.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	Yes
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.10E-03
Pu-238	3.56E-04
Pu-239	1.34E-02
Pu-240	2.99E-03
Pu-241	4.42E-02
Pu-242	1.80E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W498

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.0	282.4	55.6	0.0	0.0	339.1

As-Generated	Stored	1.0	Projected	338.1	Total	339.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.0	0.0	0.0	0.0	0.0	339.1

Final Form	Stored	1.0	Projected	338.1	Total	339.1

TWBIR ID: RL-W498

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W499

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W499	**Handling**	CH	**Stream Name**	2345Z MTRU CH solidified organics L2290 Mixed TSCA-PCB			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	L2290

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	40.00	40.00	40.00
Solidified, Inorganic Matrix	21.90	21.90	21.90
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	161.90	161.90	161.90
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	Yes
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.36E-05
Pu-238	1.09E-05
Pu-239	4.07E-04
Pu-240	9.12E-05
Pu-241	1.35E-03
Pu-242	5.49E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W499

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W499

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W500

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W500	**Handling**	CH	**Stream Name**	2345Z TRU CH solidified inorganic S3119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	19.05	19.05	19.05
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	18.10	18.10	18.10
Solidified, Inorganic Matrix	20.48	20.48	20.48
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	Yes
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.43E-03
Pu-238	1.35E-03
Pu-239	1.66E-02
Pu-240	3.70E-03
Pu-241	9.46E-02
Pu-242	2.21E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W500

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W500

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W501

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W501	**Handling**	CH	**Stream Name**	2345Z MTRU CH solidified inorganic S3119 Mixed RCRA w/ org,met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	10.71	2.38	19.05
Other Inorganic Materials	11.19	11.19	22.38
Cellulosics	1.19	1.19	2.38
Rubber	0.48	0.48	0.95
Plastics	45.48	45.24	45.71
Solidified, Inorganic Matrix	68.10	44.29	91.90
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	6.19	6.19	12.38
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	Yes
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.73E-01
Pu-238	1.16E-01
Pu-239	2.05E+00
Pu-240	5.67E-01
Pu-241	6.91E+00
Pu-242	4.95E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W501

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	25.6	0.0	0.0	0.0	26.0

As-Generated	Stored	0.4	Projected	25.6	Total	26.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	26.0

Final Form	Stored	0.4	Projected	25.6	Total	26.0

TWBIR ID: RL-W501

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W502

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W502	**Handling**	CH	**Stream Name**	2345Z MTRU CH solidified inorganic S3119 Mixed RCRA w/ org			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.22	0.22	2.47
Other Inorganic Materials	34.16	5.44	91.47
Cellulosics	2.76	1.48	8.81
Rubber	0.06	0.06	0.99
Plastics	54.83	19.76	123.41
Solidified, Inorganic Matrix	117.71	39.55	187.70
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.41	0.41	6.43
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	Yes
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.19E-03
Pu-238	3.86E-04
Pu-239	1.45E-02
Pu-240	3.24E-03
Pu-241	4.79E-02
Pu-242	1.95E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W502

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	3.1	0.0	0.0	0.0	0.0	3.1

As-Generated	Stored	3.1	Projected	0.0	Total	3.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	3.1	0.0	0.0	0.0	0.0	3.1

Final Form	Stored	3.1	Projected	0.0	Total	3.1

TWBIR ID: RL-W502

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W503

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W503	**Handling**	CH	**Stream Name**	2345Z MTRU CH solidified inorganic S3119 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.24	0.24	0.48
Other Inorganic Materials	3.10	0.95	5.24
Cellulosics	1.67	1.67	3.33
Rubber	46.90	0.95	92.86
Plastics	37.98	33.81	42.14
Solidified, Inorganic Matrix	249.45	64.29	434.62
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	5.90	5.90	11.81
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	Yes
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.05E-01
Ba-137m	2.68E-03
Cs-137	2.91E-03
Pu-238	2.99E-01
Pu-239	3.84E+00
Pu-240	8.53E-01
Pu-241	2.12E+01
Pu-242	4.93E-05
Sr-90	2.67E-03
Tc-99	5.73E-07
Y-90	2.67E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W503

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W503

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W504

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W504	**Handling**	CH	**Stream Name**	2345Z MTRU CH solidified inorganic S3119 Mixed RCRA w/ met,Hg,cor			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	4.52	4.52	4.52
Solidified, Inorganic Matrix	7.38	7.38	7.38
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	2.38	2.38	2.38
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	Yes
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.73E-01
Pu-238	1.16E-01
Pu-239	2.05E+00
Pu-240	5.67E-01
Pu-241	6.91E+00
Pu-242	4.95E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W504

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W504

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W505

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W505	**Handling**	CH	**Stream Name**	2345Z MTRU CH solidified inorganic S3119 Mixed RCRA w/ ign			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	3.33	3.33	3.33
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	33.33	33.33	33.33
Solidified, Inorganic Matrix	25.24	25.24	25.24
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	Yes
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.30E-02
Ba-137m	4.39E-04
Cs-137	4.77E-04
Pu-238	6.07E-03
Pu-239	2.22E-01
Pu-240	4.97E-02
Pu-241	8.68E-01
Pu-242	2.99E-06
Sr-90	4.35E-04
Tc-99	1.04E-07
Y-90	4.35E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W505

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W505

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W506

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W506	**Handling**	CH	**Stream Name**	2345Z MTRU CH solidified inorganic S3119 Mixed State Reg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	9.52	9.52	28.64
Other Inorganic Materials	3.17	3.17	9.56
Cellulosics	2.86	2.86	8.52
Rubber	0.00	0.00	0.00
Plastics	59.05	35.36	105.08
Solidified, Inorganic Matrix	88.35	76.46	99.40
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	Yes
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.19E-03
Pu-238	7.98E-04
Pu-239	2.43E-02
Pu-240	5.44E-03
Pu-241	8.65E-02
Pu-242	3.27E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W506

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	0.6	Projected	0.0	Total	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	0.6	Projected	0.0	Total	0.6

TWBIR ID: RL-W506

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W507

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W507	**Handling**	CH	**Stream Name**	2345Z MTRU CH solidified inorganic S3119 Mixed TSCA-PCB			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	3.17	3.17	9.52
Rubber	0.95	0.95	2.86
Plastics	19.05	14.29	28.57
Solidified, Inorganic Matrix	149.84	44.76	228.57
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	Yes
Asbestos:	N/A
PCBs:	Yes
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.16E-04
Pu-238	6.98E-05
Pu-239	2.62E-03
Pu-240	5.87E-04
Pu-241	8.66E-03
Pu-242	3.53E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W507

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	Projected	Total
	0.6	0.0	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	Projected	Total
	0.6	0.0	0.6

TWBIR ID: RL-W507

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W508

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W508	**Handling**	CH	**Stream Name**	2345Z MTRU CH solidified inorganic S3150 Mixed RCRA w/ org,met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3150

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	48.02	42.37	57.66
Solidified, Inorganic Matrix	129.76	19.52	327.28
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	9.52	9.52	14.29
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	Yes
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.16E+00
Ba-137m	4.80E-03
Cs-137	5.22E-03
Pu-238	2.29E+00
Pu-239	2.84E+01
Pu-240	6.33E+00
Pu-241	1.54E+02
Pu-242	3.76E-04
Sr-90	4.77E-03
Tc-99	1.10E-06
Y-90	4.77E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W508

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	Projected	Total
	0.6	0.0	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	Projected	Total
	0.6	0.0	0.6

TWBIR ID: RL-W508

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W509

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W509	**Handling**	CH	**Stream Name**	2345Z MTRU CH solidified inorganic S3150 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3150

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	33.31	12.38	69.71
Solidified, Inorganic Matrix	148.04	41.90	299.24
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	1.76	1.76	16.67
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	Yes
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.19E+00
Ba-137m	4.79E-03
Cs-137	5.21E-03
Pu-238	2.39E+00
Pu-239	3.02E+01
Pu-240	7.44E+00
Pu-241	1.44E+02
Pu-242	6.40E-04
Sr-90	4.77E-03
Tc-99	1.04E-06
Y-90	4.77E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W509

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	4.8	0.0	0.0	0.0	0.0	4.8

As-Generated	Stored	4.8	Projected	0.0	Total	4.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	4.8	0.0	0.0	0.0	0.0	4.8

Final Form	Stored	4.8	Projected	0.0	Total	4.8

TWBIR ID: RL-W509

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W510

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W510	**Handling**	CH	**Stream Name**	2345Z MTRU CH solidified inorganic S3150 Mixed State Reg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3150

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	1.34	1.34	9.53
Other Inorganic Materials	12.65	12.65	107.21
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	32.19	9.28	87.11
Solidified, Inorganic Matrix	167.19	42.64	493.63
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	Yes
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.24E-01
Pu-238	3.50E-01
Pu-239	4.31E+00
Pu-240	9.60E-01
Pu-241	2.46E+01
Pu-242	5.70E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W510

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	3.4	0.0	0.0	0.0	0.0	3.4

As-Generated	Stored	3.4	Projected	0.0	Total	3.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	3.4	0.0	0.0	0.0	0.0	3.4

Final Form	Stored	3.4	Projected	0.0	Total	3.4

TWBIR ID: RL-W510

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W511

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W511	**Handling**	CH	**Stream Name**	2345Z MTRU CH solidified inorganic S3190 Mixed RCRA w/ org,met,Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3190

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	3.92	2.56	14.40
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	4.13	1.10	10.67
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.56	0.56	7.19
Solidified, Inorganic Matrix	13.97	9.13	51.41
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	Yes
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.58E+00
Pu-238	1.07E+00
Pu-239	3.66E+01
Pu-240	8.06E+00
Pu-241	8.51E+01
Pu-242	8.85E-04
U-234	6.50E-06
U-235	2.25E-06
U-236	2.66E-07
U-238	1.85E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W511

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	52.9	0.0	0.0	0.0	0.0	52.9

As-Generated	Stored	Projected	Total
	52.9	0.0	52.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	52.9	0.0	0.0	0.0	0.0	52.9

Final Form	Stored	Projected	Total
	52.9	0.0	52.9

TWBIR ID: RL-W511

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W512

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W512	**Handling**	CH	**Stream Name**	2345Z MTRU CH solidified inorganic S3190 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3190

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	5.59	2.10	9.90
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	2.13	1.05	3.33
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	2.19	0.24	5.86
Solidified, Inorganic Matrix	12.10	4.54	21.41
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	Yes
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.15E+01
Pu-238	1.23E+00
Pu-239	3.73E+01
Pu-240	9.33E+00
Pu-241	7.34E+01
Pu-242	8.30E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W512

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	31.3	0.0	0.0	0.0	0.0	31.3

As-Generated	Stored	31.3	Projected	0.0	Total	31.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	31.3	0.0	0.0	0.0	0.0	31.3

Final Form	Stored	31.3	Projected	0.0	Total	31.3

TWBIR ID: RL-W512

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W513

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W513	**Handling**	CH	**Stream Name**	2345Z TRU CH uncategorized metal S5119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	127.75	73.33	138.95
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.13	0.16	0.16
Rubber	0.04	0.05	0.05
Plastics	6.97	1.27	8.21
Solidified, Inorganic Matrix	14.38	1.58	74.92
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	149.90		
Packaging Material, Plastic	7.57		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.91E+00
Pu-238	1.77E+00
Pu-239	2.17E+00
Pu-240	1.08E+00
Pu-241	4.15E+01
Pu-242	6.97E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W513

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	318.1	424.2	0.0	0.0	743.0
Standard Waste Box	1.9	188.1	3239.5	0.0	0.0	3429.5

As-Generated	Stored	2.5	Projected	4169.9	Total	4172.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	743.0
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	3429.5

Final Form	Stored	2.5	Projected	4169.9	Total	4172.5

TWBIR ID: RL-W513

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W514

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W514	**Handling**	CH	**Stream Name**	2345Z MTRU CH uncategorized metal S5119 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	445.81	445.81	445.81
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	8.48	8.48	8.48
Rubber	0.00	0.00	0.00
Plastics	1.45	1.45	1.45
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.41E-03
Pu-238	4.26E-04
Pu-239	1.61E-02
Pu-240	3.61E-03
Pu-241	5.08E-02
Pu-242	2.18E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W514

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	Projected	Total
	0.4	0.0	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	Projected	Total
	0.4	0.0	0.4

TWBIR ID: RL-W514

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W515

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W515	**Handling**	CH	**Stream Name**	2345Z MTRU CH uncategorized metal S5119 Mixed RCRA w/ met,Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	233.95	80.00	407.04
Other Inorganic Materials	0.71	6.67	20.35
Cellulosics	4.98	5.26	5.26
Rubber	0.34	5.71	7.27
Plastics	12.16	2.86	12.63
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	152.80		
Packaging Material, Plastic	3.07		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.72E-03
Pu-238	8.76E-04
Pu-239	3.29E-02
Pu-240	7.36E-03
Pu-241	1.09E-01
Pu-242	4.43E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W515

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Standard Waste Box	7.6	0.0	0.0	0.0	0.0	7.6

As-Generated	Stored	8.0	Projected	0.0	Total	8.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Standard Waste Box	7.6	0.0	0.0	0.0	0.0	7.6

Final Form	Stored	8.0	Projected	0.0	Total	8.0

TWBIR ID: RL-W515

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W516

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W516	**Handling**	CH	**Stream Name**	2345Z MTRU CH uncategorized metal S5119 Mixed RCRA/TSCA-PCB w/Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	7.78	7.78	48.91
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	234.92	59.96	485.13
Other Inorganic Materials	3.59	0.02	19.14
Cellulosics	2.88	0.12	10.63
Rubber	0.00	0.00	0.00
Plastics	10.68	5.79	20.09
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.03	0.00	0.12
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	Yes
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.13E-03
Pu-238	3.66E-04
Pu-239	1.37E-02
Pu-240	3.08E-03
Pu-241	4.55E-02
Pu-242	1.85E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W516

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	26.6	0.0	0.0	0.0	0.0	26.6

As-Generated	Stored	Projected	Total
	26.6	0.0	26.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	26.6	0.0	0.0	0.0	0.0	26.6

Final Form	Stored	Projected	Total
	26.6	0.0	26.6

TWBIR ID: RL-W516

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W517

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W517	**Handling**	CH	**Stream Name**	2345Z MTRU CH inorganic non-metal S5123 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5123

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	1666.67	1666.67	1666.67
Cellulosics	4.76	4.76	4.76
Rubber	0.00	0.00	0.00
Plastics	19.05	19.05	19.05
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.19E-09
Pu-238	4.15E-10
Pu-239	1.55E-08
Pu-240	3.46E-09
Pu-241	5.37E-08
Pu-242	2.09E-13

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W517

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W517

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W518

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W518	**Handling**	CH	**Stream Name**	2345Z TRU CH combustible S5319 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5319

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	9.34	5.93	16.67
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	7.55	5.93	10.96
Rubber	16.84	5.93	29.51
Plastics	103.60	79.49	118.15
Solidified, Inorganic Matrix	10.89	2.38	20.49
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	3.57	3.57	14.28
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.16E+00
Pu-238	4.37E-01
Pu-239	5.55E+00
Pu-240	1.34E+00
Pu-241	2.89E+01
Pu-242	1.13E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W518

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8

As-Generated	Stored	Projected	Total
	0.8	0.0	0.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8

Final Form	Stored	Projected	Total
	0.8	0.0	0.8

TWBIR ID: RL-W518

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W519

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W519	**Handling**	CH	**Stream Name**	2345Z MTRU CH combustible S5319 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5319

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	31.55	9.56	241.76
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	13.03	4.30	43.00
Other Inorganic Materials	0.36	0.36	2.87
Cellulosics	9.66	0.96	17.92
Rubber	57.40	2.39	137.70
Plastics	91.29	43.00	153.00
Solidified, Inorganic Matrix	0.12	0.12	0.48
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	1.19	1.19	4.79
Soils	10.69	7.57	45.39
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.68E-02
Pu-238	2.59E-02
Pu-239	9.82E-01
Pu-240	2.20E-01
Pu-241	3.05E+00
Pu-242	1.32E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W519

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.7	0.0	0.0	0.0	0.0	1.7

As-Generated	Stored	Projected	Total
	1.7	0.0	1.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.7	0.0	0.0	0.0	0.0	1.7

Final Form	Stored	Projected	Total
	1.7	0.0	1.7

TWBIR ID: RL-W519

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W520

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W520	**Handling**	CH	**Stream Name**	2345Z MTRU CH combustible S5319 Mixed RCRA w/ met,Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5319

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	280.81	228.29	333.33
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	14.29	10.48	18.10
Cellulosics	0.00	0.00	0.00
Rubber	104.62	104.62	209.24
Plastics	38.14	9.62	66.67
Solidified, Inorganic Matrix	0.55	0.14	0.95
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	2.07	2.07	4.14
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.10E-02
Pu-238	1.17E-02
Pu-239	4.31E-01
Pu-240	9.65E-02
Pu-241	1.57E+00
Pu-242	5.81E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W520

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W520

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W521

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W521	**Handling**	CH	**Stream Name**	2345Z MTRU CH combustible S5319 Mixed RCRA/TSCA-PCB w/ ign			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5319

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	26.19	26.19	26.19
Rubber	16.67	16.67	16.67
Plastics	128.57	128.57	128.57
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	18.95	18.95	18.95
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	Yes
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.33E-03
Pu-238	4.28E-04
Pu-239	1.61E-02
Pu-240	3.60E-03
Pu-241	5.31E-02
Pu-242	2.17E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W521

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W521

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W522

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W522	**Handling**	CH	**Stream Name**	2345Z TRU CH combustible S5330 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5330

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	1.73	1.73	19.05
Cellulosics	169.33	115.01	251.90
Rubber	2.05	2.05	19.05
Plastics	3.81	3.81	3.81
Solidified, Inorganic Matrix	4.76	4.76	4.76
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.59E+00
Pu-238	1.44E+00
Pu-239	9.66E+00
Pu-240	2.78E+00
Pu-241	7.03E+01
Pu-242	3.72E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W522

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.3	0.0	0.0	0.0	0.0	2.3

As-Generated	Stored	2.3	Projected	0.0	Total	2.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.3	0.0	0.0	0.0	0.0	2.3

Final Form	Stored	2.3	Projected	0.0	Total	2.3

TWBIR ID: RL-W522

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W523

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W523	**Handling**	CH	**Stream Name**	2345Z MTRU CH combustible S5330 Mixed RCRA w/ met,Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5330

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.02	0.02	0.02
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	109.05	109.05	109.05
Rubber	0.00	0.00	0.00
Plastics	3.81	3.81	3.81
Solidified, Inorganic Matrix	5.10	5.10	5.10
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.46E+01
Pu-238	6.02E+00
Pu-239	7.04E+00
Pu-240	4.30E+00
Pu-241	1.53E+02
Pu-242	3.02E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W523

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W523

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W524

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W524	**Handling**	CH	**Stream Name**	2345Z TRU CH combustible S5390 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	24.37	5.71	61.94
Other Inorganic Materials	2.56	2.56	10.95
Cellulosics	49.32	25.25	98.06
Rubber	17.14	1.43	41.53
Plastics	37.93	18.58	61.23
Solidified, Inorganic Matrix	10.84	2.38	18.56
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	1.10	1.10	14.28
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.41E+00
Pu-238	1.78E+00
Pu-239	4.98E+00
Pu-240	1.94E+00
Pu-241	5.59E+01
Pu-242	6.22E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W524

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.7	0.0	0.0	0.0	0.0	2.7

As-Generated	Stored	2.7	Projected	0.0	Total	2.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.7	0.0	0.0	0.0	0.0	2.7

Final Form	Stored	2.7	Projected	0.0	Total	2.7

TWBIR ID: RL-W524

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W525

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W525	**Handling**	CH	**Stream Name**	2345Z MTRU CH combustible S5390 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.01	0.00	0.01
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	31.75	23.66	47.77
Other Inorganic Materials	3.17	3.17	9.55
Cellulosics	75.24	40.13	100.32
Rubber	28.57	4.73	66.88
Plastics	50.63	37.74	75.71
Solidified, Inorganic Matrix	1.43	1.43	4.30
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	7.94	7.94	14.33
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.52E+00
Pu-238	5.22E-01
Pu-239	2.55E+00
Pu-240	8.50E-01
Pu-241	1.91E+01
Pu-242	9.65E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W525

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	0.6	Projected	0.0	Total	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	0.6	Projected	0.0	Total	0.6

TWBIR ID: RL-W525

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W526

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W526	**Handling**	CH	**Stream Name**	2345Z MTRU CH combustible S5390 Mixed State Reg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.24	3.23	16.14
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	69.55	36.05	121.81
Rubber	0.28	3.80	19.00
Plastics	29.37	8.58	52.86
Solidified, Inorganic Matrix	0.64	0.10	2.52
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	9.46	9.32	17.14
Packaging Material, Steel	152.32		
Packaging Material, Plastic	3.82		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.53E-01
Ba-137m	1.74E-04
Cs-137	1.89E-04
Pu-238	8.31E-02
Pu-239	1.20E+00
Pu-240	2.69E-01
Pu-241	6.08E+00
Pu-242	1.62E-05
Sr-90	1.73E-04
Tc-99	3.96E-08
Y-90	1.73E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W526

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0
Standard Waste Box	13.3	0.0	0.0	0.0	0.0	13.3

As-Generated	Stored	14.4	Projected	0.0	Total	14.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0
Standard Waste Box	13.3	0.0	0.0	0.0	0.0	13.3

Final Form	Stored	14.4	Projected	0.0	Total	14.4

TWBIR ID: RL-W526

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W527

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W527	**Handling**	CH	**Stream Name**	2345Z TRU CH filter S5410 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	3.37	3.37	3.37
Other Inorganic Materials	84.23	84.23	84.23
Cellulosics	12.13	12.13	12.13
Rubber	6.06	6.06	6.06
Plastics	33.46	33.46	33.46
Solidified, Inorganic Matrix	4.76	4.76	4.76
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.04E+00
Pu-238	8.17E-01
Pu-239	8.65E+00
Pu-240	2.07E+00
Pu-241	4.85E+01
Pu-242	1.77E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W527

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W527

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W528

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W528	**Handling**	CH	**Stream Name**	2345Z TRU CH heterogeneous S5420 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	3.62	5.67	12.38
Other Metal/Alloys	120.00	18.17	284.23
Other Inorganic Materials	5.98	9.36	129.02
Cellulosics	2.51	0.95	9.56
Rubber	1.10	0.36	5.74
Plastics	12.45	2.85	35.41
Solidified, Inorganic Matrix	2.58	0.14	16.27
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	139.31		
Packaging Material, Plastic	24.07		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.83E+01
Pu-238	1.39E+01
Pu-239	1.10E+01
Pu-240	1.06E+01
Pu-241	2.97E+02
Pu-242	1.40E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W528

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	3.4	0.0	0.0	0.0	0.0	3.4
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated	Stored	Projected	Total
	5.3	0.0	5.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	3.4	0.0	0.0	0.0	0.0	3.4
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	Projected	Total
	5.3	0.0	5.3

TWBIR ID: RL-W528

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W529

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W529	**Handling**	CH	**Stream Name**	2345Z MTRU CH heterogeneous S5420 Mixed RCRA w/ Org,Met,Cor			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	253.34	253.34	253.34
Other Inorganic Materials	59.93	59.93	59.93
Cellulosics	0.00	0.00	0.00
Rubber	16.16	16.16	16.16
Plastics	59.53	59.53	59.53
Solidified, Inorganic Matrix	7.89	7.89	7.89
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.93E-02
Ba-137m	4.96E-04
Cs-137	5.40E-04
Pu-238	2.71E-02
Pu-239	3.37E-01
Pu-240	7.49E-02
Pu-241	1.81E+00
Pu-242	4.45E-06
Sr-90	4.92E-04
Tc-99	1.15E-07
Y-90	4.92E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W529

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated	Stored	Projected	Total
	1.9	0.0	1.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	Projected	Total
	1.9	0.0	1.9

TWBIR ID: RL-W529

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W530

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W530	**Handling**	CH	**Stream Name**	2345Z MTRU CH heterogeneous S5420 Mixed RCRA w/ org,met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	48.81	48.81	48.81
Other Inorganic Materials	92.86	92.86	92.86
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	16.67	16.67	16.67
Solidified, Inorganic Matrix	0.24	0.24	0.24
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.53E+00
Pu-238	1.42E+00
Pu-239	1.74E+01
Pu-240	3.89E+00
Pu-241	9.95E+01
Pu-242	2.31E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W530

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W530

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W531

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W531	**Handling**	CH	**Stream Name**	2345Z MTRU CH heterogeneous S5420 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	31.85	37.93	161.43
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	76.17	3.00	288.29
Other Inorganic Materials	2.48	0.59	62.72
Cellulosics	7.71	0.05	51.59
Rubber	15.25	4.69	117.78
Plastics	22.89	3.16	75.04
Solidified, Inorganic Matrix	23.75	0.05	77.98
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	8.03	4.69	74.49
Packaging Material, Steel	138.99		
Packaging Material, Plastic	24.56		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.04E+01
Pu-238	1.09E+01
Pu-239	5.78E+00
Pu-240	4.18E+00
Pu-241	2.03E+02
Pu-242	5.20E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W531

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	3.6	0.0	0.0	0.0	0.0	3.6
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated — Stored: 5.5 | Projected: 0.0 | Total: 5.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	3.6	0.0	0.0	0.0	0.0	3.6
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

Final Form — Stored: 5.5 | Projected: 0.0 | Total: 5.5

TWBIR ID: RL-W531

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W532

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W532	**Handling**	CH	**Stream Name**	2345Z MTRU CH heterogeneous S5420 Mixed RCRA/TSCA-PCB w/Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	3.40	3.40	10.82
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	178.72	119.15	252.95
Other Inorganic Materials	33.45	2.11	104.81
Cellulosics	4.11	1.57	10.04
Rubber	0.00	0.00	0.00
Plastics	19.88	3.66	30.60
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	Yes
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.62E-03
Pu-238	2.14E-03
Pu-239	8.02E-02
Pu-240	1.80E-02
Pu-241	2.65E-01
Pu-242	1.08E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W532

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	30.4	0.0	0.0	0.0	0.0	30.4

As-Generated	Stored	30.4	Projected	0.0	Total	30.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	30.4	0.0	0.0	0.0	0.0	30.4

Final Form	Stored	30.4	Projected	0.0	Total	30.4

TWBIR ID: RL-W532

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W533

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W533	**Handling**	CH	**Stream Name**	2345Z MTRU CH heterogeneous S5420 Mixed State Reg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	23.42	23.42	23.42
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	2.11	2.11	2.11
Rubber	1.58	1.58	1.58
Plastics	25.00	25.00	25.00
Solidified, Inorganic Matrix	0.01	0.01	0.01
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	2.11	2.11	2.11
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.70E-02
Ba-137m	2.48E-05
Cs-137	2.70E-05
Pu-238	1.48E-02
Pu-239	1.84E-01
Pu-240	4.09E-02
Pu-241	9.82E-01
Pu-242	2.43E-06
Sr-90	2.46E-05
Tc-99	5.76E-09
Y-90	2.46E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W533

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8

As-Generated	Stored	Projected	Total
	3.8	0.0	3.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8

Final Form	Stored	Projected	Total
	3.8	0.0	3.8

TWBIR ID: RL-W533

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W534

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W534	**Handling**	CH	**Stream Name**	2345Z MTRU CH heterogeneous S5420 Mixed TSCA-PCB			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	261.90	261.90	261.90
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	52.38	52.38	52.38
Solidified, Inorganic Matrix	23.81	23.81	23.81
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	9.52	9.52	9.52
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	Yes
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.67E-05
Pu-238	8.64E-06
Pu-239	3.24E-04
Pu-240	7.26E-05
Pu-241	1.07E-03
Pu-242	4.37E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W534

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W534

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W535

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W535	**Handling**	CH	**Stream Name**	2345Z TRU CH heterogeneous S5440 Non-mixed	**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.02	0.00	0.05
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	56.21	2.39	184.72
Other Inorganic Materials	4.37	0.48	47.92
Cellulosics	31.12	3.83	156.64
Rubber	17.59	0.20	150.41
Plastics	33.98	3.83	130.42
Solidified, Inorganic Matrix	13.28	2.39	54.58
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	1.18	1.40	28.72
Packaging Material, Steel	134.68		
Packaging Material, Plastic	31.27		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.95E+00
Pu-238	7.52E-01
Pu-239	3.68E+00
Pu-240	1.13E+00
Pu-241	2.89E+01
Pu-242	2.86E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W535

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	19.9	0.0	0.0	0.0	0.0	19.9
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8

As-Generated — Stored: 23.7 | Projected: 0.0 | Total: 23.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	19.9	0.0	0.0	0.0	0.0	19.9
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8

Final Form — Stored: 23.7 | Projected: 0.0 | Total: 23.7

TWBIR ID: RL-W535

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W536

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W536	**Handling**	CH	**Stream Name**	2345Z MTRU CH heterogeneous S5440 Mixed RCRA w/ org,met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	28.68	0.55	255.03
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	48.85	2.38	142.98
Other Inorganic Materials	0.35	0.35	10.14
Cellulosics	24.58	2.38	85.71
Rubber	59.72	1.49	195.22
Plastics	63.08	25.45	176.34
Solidified, Inorganic Matrix	34.93	0.05	190.46
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	17.20	9.52	71.42
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.27E-01
Pu-238	3.70E-02
Pu-239	4.66E-01
Pu-240	1.06E-01
Pu-241	2.40E+00
Pu-242	7.44E-06
U-234	4.91E-07
U-235	2.15E-07
U-236	2.01E-08
U-238	1.40E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W536

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	6.5	0.0	0.0	0.0	0.0	6.5

As-Generated	Stored	6.5	Projected	0.0	Total	6.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	6.5	0.0	0.0	0.0	0.0	6.5

Final Form	Stored	6.5	Projected	0.0	Total	6.5

TWBIR ID: RL-W536

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W537

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W537	**Handling**	CH	**Stream Name**	2345Z MTRU CH heterogeneous S5440 Mixed RCRA w/ org,met,Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	2.90	2.49	5.51
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	1.14	1.10	2.19
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	15.25	9.67	20.29
Solidified, Inorganic Matrix	10.36	8.88	19.67
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.28E+00
Pu-238	1.08E+00
Pu-239	3.70E+01
Pu-240	8.14E+00
Pu-241	8.71E+01
Pu-242	6.27E-04
U-234	5.39E-06
U-235	1.86E-06
U-236	2.21E-07
U-238	1.54E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W537

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	5.0	0.0	0.0	0.0	0.0	5.0

As-Generated	Stored	Projected	Total
	5.0	0.0	5.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	5.0	0.0	0.0	0.0	0.0	5.0

Final Form	Stored	Projected	Total
	5.0	0.0	5.0

TWBIR ID: RL-W537

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W538

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W538	**Handling**	CH	**Stream Name**	2345Z MTRU CH heterogeneous S5440 Mixed RCRA w/ org			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	36.15	18.00	159.41
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	12.56	5.80	24.13
Rubber	25.57	14.24	120.76
Plastics	69.04	49.96	91.39
Solidified, Inorganic Matrix	18.71	0.19	38.64
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	27.86	27.86	50.24
Soils	7.08	7.08	28.98
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.25E-05
Pu-238	1.37E-05
Pu-239	5.15E-04
Pu-240	1.15E-04
Pu-241	1.70E-03
Pu-242	6.94E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W538

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.7	0.0	0.0	0.0	0.0	1.7

As-Generated	Stored	1.7	Projected	0.0	Total	1.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.7	0.0	0.0	0.0	0.0	1.7

Final Form	Stored	1.7	Projected	0.0	Total	1.7

TWBIR ID: RL-W538

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W539

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W539	**Handling**	CH	**Stream Name**	2345Z MTRU CH heterogeneous S5440 Mixed RCRA w/ met,cor			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	80.14	80.14	160.29
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	29.45	1.52	57.38
Other Inorganic Materials	0.12	0.12	0.24
Cellulosics	7.55	0.33	14.76
Rubber	99.81	56.38	143.24
Plastics	38.12	31.62	44.62
Solidified, Inorganic Matrix	37.62	37.62	75.24
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	59.55	27.24	91.86
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.64E-02
Pu-238	6.16E-03
Pu-239	2.28E-01
Pu-240	5.10E-02
Pu-241	8.29E-01
Pu-242	3.07E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W539

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W539

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W540

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W540	**Handling**	CH	**Stream Name**	2345Z MTRU CH heterogeneous S5440 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	30.39	0.01	365.91
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	52.49	0.05	254.04
Other Inorganic Materials	5.90	0.91	273.04
Cellulosics	26.90	0.10	110.24
Rubber	47.34	1.44	199.59
Plastics	52.58	3.83	143.93
Solidified, Inorganic Matrix	14.87	0.34	255.72
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	19.63	2.38	106.18
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.18E-01
Pu-238	3.69E-01
Pu-239	1.11E+00
Pu-240	3.86E-01
Pu-241	1.08E+01
Pu-242	1.83E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W540

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	30.9	0.0	0.0	0.0	0.0	30.9

As-Generated	Stored	Projected	Total
	30.9	0.0	30.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	30.9	0.0	0.0	0.0	0.0	30.9

Final Form	Stored	Projected	Total
	30.9	0.0	30.9

TWBIR ID: RL-W540

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W541

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W541	**Handling**	CH	**Stream Name**	2345Z MTRU CH heterogeneous S5440 Mixed RCRA w/ met,Hg,cor			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	2.41	0.10	7.14
Other Inorganic Materials	0.03	0.03	0.10
Cellulosics	13.05	2.48	32.38
Rubber	105.10	39.29	147.43
Plastics	24.00	9.52	49.76
Solidified, Inorganic Matrix	113.71	2.38	205.43
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	38.52	7.62	98.43
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.30E-02
Pu-238	1.18E-02
Pu-239	4.40E-01
Pu-240	9.85E-02
Pu-241	1.56E+00
Pu-242	5.93E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W541

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	0.6	Projected	0.0	Total	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	0.6	Projected	0.0	Total	0.6

TWBIR ID: RL-W541

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W542

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W542	**Handling**	CH	**Stream Name**	2345Z MTRU CH heterogeneous S5440 Mixed RCRA w/ met,Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	42.74	42.74	317.12
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	19.40	0.05	100.10
Other Inorganic Materials	5.55	0.05	33.39
Cellulosics	25.27	0.05	124.14
Rubber	74.68	0.48	157.00
Plastics	36.81	1.34	72.97
Solidified, Inorganic Matrix	53.93	0.55	374.32
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	28.71	4.73	133.64
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.89E-01
Pu-238	1.39E-01
Pu-239	1.76E+00
Pu-240	4.09E-01
Pu-241	1.01E+01
Pu-242	3.32E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W542

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	4.0	0.0	0.0	0.0	0.0	4.0

As-Generated	Stored	4.0	Projected	0.0	Total	4.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	4.0	0.0	0.0	0.0	0.0	4.0

Final Form	Stored	4.0	Projected	0.0	Total	4.0

TWBIR ID: RL-W542

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W543

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W543	**Handling**	CH	**Stream Name**	2345Z MTRU CH heterogeneous S5440 Mixed RCRA w/cor			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	169.57	4.76	178.68
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	5.86	0.92	95.24
Rubber	1.25	0.79	9.52
Plastics	22.19	9.52	22.89
Solidified, Inorganic Matrix	2.74	52.38	52.38
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	2.49	47.62	47.62
Packaging Material, Steel	152.80		
Packaging Material, Plastic	3.07		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.31E-04
Pu-238	2.70E-04
Pu-239	1.01E-02
Pu-240	2.27E-03
Pu-241	3.36E-02
Pu-242	1.37E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W543

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8

As-Generated	Stored	4.0	Projected	0.0	Total	4.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8

Final Form	Stored	4.0	Projected	0.0	Total	4.0

TWBIR ID: RL-W543

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W544

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W544	**Handling**	CH	**Stream Name**	2345Z MTRU CH heterogeneous S5440 Mixed RCRA w/ ign,cor			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	142.86	142.86	142.86
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	11.90	11.90	11.90
Rubber	36.19	36.19	36.19
Plastics	35.71	35.71	35.71
Solidified, Inorganic Matrix	14.76	14.76	14.76
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.16E-01
Pu-238	2.10E-01
Pu-239	2.20E+00
Pu-240	5.51E-01
Pu-241	1.28E+01
Pu-242	4.60E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W544

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: RL-W544

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W545

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W545	**Handling**	CH	**Stream Name**	2345Z MTRU CH heterogeneous S5440 Mixed RCRA/TSCA-PCB w/Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	190.53	190.53	190.53
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	48.42	48.42	48.42
Other Inorganic Materials	2.37	2.37	2.37
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	32.50	32.50	32.50
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	Yes
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.28E-03
Pu-238	1.71E-03
Pu-239	6.40E-02
Pu-240	1.43E-02
Pu-241	2.12E-01
Pu-242	8.63E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W545

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8

As-Generated	Stored	Projected	Total
	3.8	0.0	3.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8

Final Form	Stored	Projected	Total
	3.8	0.0	3.8

TWBIR ID: RL-W545

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W546

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W546	**Handling**	CH	**Stream Name**	2345Z MTRU CH heterogeneous S5440 Mixed RCRA/TSCA-PCB w/ ign			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	23.40	18.00	30.00
Rubber	5.10	5.10	14.40
Plastics	81.00	57.60	100.80
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	38.40	19.20	86.40
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	Yes
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.05E-03
Pu-238	3.38E-04
Pu-239	1.27E-02
Pu-240	2.84E-03
Pu-241	4.19E-02
Pu-242	1.71E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W546

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8

As-Generated	Stored	Projected	Total
	0.8	0.0	0.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8

Final Form	Stored	Projected	Total
	0.8	0.0	0.8

TWBIR ID: RL-W546

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W547

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W547	**Handling**	CH	**Stream Name**	2345Z MTRU CH heterogeneous S5440 Mixed State Reg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	67.79	7.25	206.52
Other Inorganic Materials	0.43	0.45	11.74
Cellulosics	70.65	8.50	160.15
Rubber	0.00	0.00	0.00
Plastics	34.19	11.74	90.23
Solidified, Inorganic Matrix	0.30	0.10	26.45
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.19	3.57	49.60
Soils	6.88	0.14	20.19
Packaging Material, Steel	152.80		
Packaging Material, Plastic	3.07		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.00E-07
Pu-238	1.29E-07
Pu-239	4.85E-06
Pu-240	1.09E-06
Pu-241	1.60E-05
Pu-242	6.54E-11

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W547

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.9	0.0	0.0	0.0	0.0	2.9
Standard Waste Box	53.2	0.0	0.0	0.0	0.0	53.2

As-Generated	Stored	Projected	Total
	56.1	0.0	56.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.9	0.0	0.0	0.0	0.0	2.9
Standard Waste Box	53.2	0.0	0.0	0.0	0.0	53.2

Final Form	Stored	Projected	Total
	56.1	0.0	56.1

TWBIR ID: RL-W547

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W548

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W548	**Handling**	CH	**Stream Name**	2345Z MTRU CH heterogeneous S5440 Mixed TSCA-PCB			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	9.52	9.52	19.05
Rubber	2.38	2.38	4.76
Plastics	50.24	42.86	57.62
Solidified, Inorganic Matrix	17.38	10.95	23.81
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	8.57	4.76	12.38
Soils	4.76	4.76	9.52
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	Yes
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.39E-05
Pu-238	1.50E-05
Pu-239	5.60E-04
Pu-240	1.25E-04
Pu-241	1.92E-03
Pu-242	7.55E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W548

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W548

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W549

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W549	**Handling**	CH	**Stream Name**	2345Z TRU CH heterogeneous S5900 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5900

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	124.30	0.87	179.95
Other Inorganic Materials	24.62	3.81	98.16
Cellulosics	11.66	1.43	18.09
Rubber	2.61	1.26	13.33
Plastics	36.80	11.65	51.94
Solidified, Inorganic Matrix	14.36	0.53	103.64
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	141.93		
Packaging Material, Plastic	19.99		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.42E+00
Pu-238	6.33E-01
Pu-239	3.02E+00
Pu-240	9.05E-01
Pu-241	2.55E+01
Pu-242	2.57E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W549

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated — Stored: 4.0 | Projected: 0.0 | Total: 4.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

Final Form — Stored: 4.0 | Projected: 0.0 | Total: 4.0

TWBIR ID: RL-W549

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W550

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W550	**Handling**	CH	**Stream Name**	2345Z MTRU CH heterogeneous S5900 Mixed RCRA w/ org,met,Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5900

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	3.09	2.45	5.59
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	1.20	1.10	2.24
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	8.76	5.33	18.52
Solidified, Inorganic Matrix	11.03	8.68	19.95
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.43E+00
Pu-238	1.09E+00
Pu-239	3.72E+01
Pu-240	8.21E+00
Pu-241	8.73E+01
Pu-242	6.35E-04
U-234	4.37E-06
U-235	1.51E-06
U-236	1.79E-07
U-238	1.25E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W550

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	4.4	0.0	0.0	0.0	0.0	4.4

As-Generated	Stored	4.4	Projected	0.0	Total	4.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	4.4	0.0	0.0	0.0	0.0	4.4

Final Form	Stored	4.4	Projected	0.0	Total	4.4

TWBIR ID: RL-W550

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W551

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W551	**Handling**	CH	**Stream Name**	2345Z MTRU CH heterogeneous S5900 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5900

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	46.05	0.48	780.99
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	67.09	1.09	225.19
Other Inorganic Materials	0.98	1.92	38.33
Cellulosics	12.05	1.20	49.86
Rubber	7.45	4.79	124.65
Plastics	18.47	2.33	199.44
Solidified, Inorganic Matrix	8.82	0.01	273.10
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	7.04	2.35	83.45
Packaging Material, Steel	142.22		
Packaging Material, Plastic	19.54		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.85E+00
Pu-238	4.55E-01
Pu-239	1.19E+01
Pu-240	3.03E+00
Pu-241	2.62E+01
Pu-242	2.87E-04
U-235	1.37E-07
U-238	2.76E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W551

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	8.0	0.0	0.0	0.0	0.0	8.0
Standard Waste Box	7.6	0.0	0.0	0.0	0.0	7.6

As-Generated	Stored	15.6	Projected	0.0	Total	15.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	8.0	0.0	0.0	0.0	0.0	8.0
Standard Waste Box	7.6	0.0	0.0	0.0	0.0	7.6

Final Form	Stored	15.6	Projected	0.0	Total	15.6

TWBIR ID: RL-W551

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W552

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W552	**Handling**	CH	**Stream Name**	2345Z MTRU CH heterogeneous S5900 Mixed RCRA w/ met,Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5900

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	22.62	22.62	90.28
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	24.37	0.86	50.13
Other Inorganic Materials	4.54	0.05	13.18
Cellulosics	6.88	0.76	19.96
Rubber	40.75	1.29	73.41
Plastics	31.77	25.66	45.05
Solidified, Inorganic Matrix	42.81	1.14	70.61
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	40.55	10.45	71.13
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.32E-02
Pu-238	4.67E-03
Pu-239	1.73E-01
Pu-240	3.88E-02
Pu-241	6.08E-01
Pu-242	2.34E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W552

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8

As-Generated	Stored	0.8	Projected	0.0	Total	0.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8

Final Form	Stored	0.8	Projected	0.0	Total	0.8

TWBIR ID: RL-W552

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W553

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W553	**Handling**	CH	**Stream Name**	2345Z MTRU CH heterogeneous S5900 Mixed RCRA w/ ign,cor			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5900

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	71.67	71.67	71.67
Other Inorganic Materials	2.62	2.62	2.62
Cellulosics	0.00	0.00	0.00
Rubber	0.48	0.48	0.48
Plastics	17.38	17.38	17.38
Solidified, Inorganic Matrix	31.67	31.67	31.67
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.64E-04
Ba-137m	2.46E-01
Cs-137	2.68E-01
Pu-238	8.81E-04
Pu-239	3.09E-02
Pu-240	6.92E-03
Pu-241	1.54E-01
Pu-242	4.17E-07
Sr-90	2.45E-01
Tc-99	5.21E-05
Y-90	2.45E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W553

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	Projected	Total
	0.4	0.0	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	Projected	Total
	0.4	0.0	0.4

TWBIR ID: RL-W553

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W554

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W554	**Handling**	CH	**Stream Name**	2345Z MTRU CH heterogeneous S5900 Mixed RCRA/TSCA-PCB w/Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5900

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	119.79	119.79	119.79
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	159.16	159.16	159.16
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	2.11	2.11	2.11
Rubber	0.00	0.00	0.00
Plastics	18.21	18.21	18.21
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	Yes
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.79E-03
Pu-238	5.78E-04
Pu-239	2.17E-02
Pu-240	4.86E-03
Pu-241	7.17E-02
Pu-242	2.93E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W554

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	9.5	0.0	0.0	0.0	0.0	9.5

As-Generated	Stored	Projected	Total
	9.5	0.0	9.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	9.5	0.0	0.0	0.0	0.0	9.5

Final Form	Stored	Projected	Total
	9.5	0.0	9.5

TWBIR ID: RL-W554

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W555

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W555	**Handling**	CH	**Stream Name**	2345Z MTRU CH heterogeneous S5900 Mixed State Reg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5900

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	34.92	21.03	120.66
Other Inorganic Materials	7.50	5.70	43.47
Cellulosics	7.11	3.00	11.83
Rubber	0.19	3.68	10.98
Plastics	25.23	14.52	42.52
Solidified, Inorganic Matrix	5.80	0.05	125.64
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	5.90	1.59	7.44
Packaging Material, Steel	152.80		
Packaging Material, Plastic	3.07		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.50E-04
Pu-238	2.10E-04
Pu-239	7.88E-03
Pu-240	1.77E-03
Pu-241	2.61E-02
Pu-242	1.06E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W555

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Standard Waste Box	11.4	0.0	0.0	0.0	0.0	11.4

As-Generated	Stored	12.0	Projected	0.0	Total	12.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Standard Waste Box	11.4	0.0	0.0	0.0	0.0	11.4

Final Form	Stored	12.0	Projected	0.0	Total	12.0

TWBIR ID: RL-W555

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W563

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W563	**Handling**	CH	**Stream Name**	2345Z MTRU CH solidified inorganic X6200 Mixed RCRA w/ met,cor			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	X6200

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	31.43	31.43	31.43
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	32.86	32.86	32.86
Solidified, Inorganic Matrix	94.35	94.35	94.35
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.72E-01
Pu-238	3.01E-01
Pu-239	3.75E+00
Pu-240	8.32E-01
Pu-241	2.04E+01
Pu-242	4.97E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W563

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W563

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W564

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W564	**Handling**	CH	**Stream Name**	2345Z MTRU CH solidified inorganic X6200 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	X6200

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	1.75	1.75	10.52
Other Inorganic Materials	2.38	2.38	4.76
Cellulosics	94.92	80.00	134.76
Rubber	0.00	0.00	0.00
Plastics	33.33	33.33	33.33
Solidified, Inorganic Matrix	40.29	26.67	70.30
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	41.67	6.67	100.48
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.82E-02
Pu-238	3.34E-02
Pu-239	4.04E-01
Pu-240	8.98E-02
Pu-241	2.61E+00
Pu-242	5.33E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W564

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.3	0.0	0.0	0.0	0.0	1.3

As-Generated	Stored	1.3	Projected	0.0	Total	1.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.3	0.0	0.0	0.0	0.0	1.3

Final Form	Stored	1.3	Projected	0.0	Total	1.3

TWBIR ID: RL-W564

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W565

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W565	**Handling**	CH	**Stream Name**	2345Z MTRU CH Pb/Cd metal X7219 Mixed RCRA w/ met,cor			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Lead/Cadmium Metal	**Waste Matrix Code**	X7219

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	589.05	589.05	589.05
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.67	0.67	0.67
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	20.00	20.00	20.00
Rubber	106.67	106.67	106.67
Plastics	89.05	89.05	89.05
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	37.62	37.62	37.62
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.23E-02
Pu-238	1.12E-02
Pu-239	4.18E-01
Pu-240	9.37E-02
Pu-241	1.45E+00
Pu-242	5.64E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W565

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W565

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W566

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W566	**Handling**	CH	**Stream Name**	2345Z MTRU CH Pb/Cd metal X7219 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Lead/Cadmium Metal	**Waste Matrix Code**	X7219

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	217.20	104.43	397.04
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	9.24	2.14	77.08
Other Inorganic Materials	1.35	1.35	11.66
Cellulosics	1.69	0.71	11.18
Rubber	64.82	11.13	142.73
Plastics	21.01	6.19	47.10
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	14.56	7.14	42.82
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.52E-02
Pu-238	1.50E-02
Pu-239	5.60E-01
Pu-240	1.25E-01
Pu-241	1.88E+00
Pu-242	7.55E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W566

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.3	0.0	0.0	0.0	0.0	2.3

As-Generated	Stored	Projected	Total
	2.3	0.0	2.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.3	0.0	0.0	0.0	0.0	2.3

Final Form	Stored	Projected	Total
	2.3	0.0	2.3

TWBIR ID: RL-W566

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W567

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W567	**Handling**	CH	**Stream Name**	2345Z TRU CH solidified inorganic S3119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	35.09	0.00	0.00
Solidified, Inorganic Matrix	75.48	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	Yes
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.36E+01
Pu-238	4.25E+00
Pu-239	1.91E-01
Pu-240	1.55E-01
Pu-241	1.77E+03
Pu-242	1.60E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W567

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W567

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W568

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W568	**Handling**	CH	**Stream Name**	2345Z TRU CH uncategorized metal S5119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	23.96	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	453.79	0.00	0.00
Other Inorganic Materials	5.21	0.00	0.00
Cellulosics	6.99	0.00	0.00
Rubber	0.77	0.00	0.00
Plastics	32.70	0.00	0.00
Solidified, Inorganic Matrix	4.28	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	14.85	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.04E+01
Pu-238	4.98E+00
Pu-239	5.03E-01
Pu-240	4.01E-01
Pu-241	2.03E+03
Pu-242	3.25E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W568

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	3.7	0.0	0.0	0.0	0.0	3.7

As-Generated	Stored	3.7	Projected	0.0	Total	3.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	3.7	0.0	0.0	0.0	0.0	3.7

Final Form	Stored	3.7	Projected	0.0	Total	3.7

TWBIR ID: RL-W568

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W569

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W569	**Handling**	CH	**Stream Name**	2345Z TRU CH inorganic non-metal S5121 Non-mixed	**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5121

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	39.08	0.00	0.00
Cellulosics	0.48	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	2.38	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	1.90	0.00	0.00
Packaging Material, Steel	151.72		
Packaging Material, Plastic	4.75		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.69E-02
Pu-238	6.65E-03
Pu-239	2.99E-04
Pu-240	2.43E-05
Pu-241	2.78E+00
Pu-242	2.43E-10

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W569

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated	Stored	2.1	Projected	0.0	Total	2.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	2.1	Projected	0.0	Total	2.1

TWBIR ID: RL-W569

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W570

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W570	**Handling**	CH	**Stream Name**	2345Z TRU CH inorganic non-metal S5122 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5122

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	232.62	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	25.44	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	19.19	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.91E-02
Ba-137m	1.97E-02
Cs-137	2.14E-02
Pu-238	5.89E-03
Pu-239	2.24E-01
Pu-240	5.01E-02
Pu-241	6.89E-01
Pu-242	3.02E-06
Sr-90	1.94E-02
Tc-99	5.36E-06
Y-90	1.94E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W570

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W570

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W571

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W571	**Handling**	CH	**Stream Name**	2345Z TRU CH combustible S5319 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5319

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1.37	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	13.37	0.00	0.00
Other Inorganic Materials	3.72	0.00	0.00
Cellulosics	8.06	0.00	0.00
Rubber	26.22	0.00	0.00
Plastics	88.11	0.00	0.00
Solidified, Inorganic Matrix	0.04	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	11.71	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.38E+00
Pu-238	6.67E-01
Pu-239	6.06E-01
Pu-240	3.04E-01
Pu-241	9.32E+01
Pu-242	3.66E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W571

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	12.5	0.0	0.0	0.0	0.0	12.5

As-Generated	Stored	12.5	Projected	0.0	Total	12.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	12.5	0.0	0.0	0.0	0.0	12.5

Final Form	Stored	12.5	Projected	0.0	Total	12.5

TWBIR ID: RL-W571

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W572

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W572	**Handling**	CH	**Stream Name**	2345Z TRU CH combustible S5330 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5330

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	1.36	0.00	0.00
Other Inorganic Materials	0.22	0.00	0.00
Cellulosics	92.55	0.00	0.00
Rubber	5.27	0.00	0.00
Plastics	9.97	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	14.56	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.03E-03
Pu-238	1.09E-03
Pu-239	1.78E-03
Pu-240	3.98E-05
Pu-241	4.53E-01
Pu-242	3.97E-11

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W572

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	2.3	0.0	0.0	0.0	0.0	2.3

As-Generated	Stored	2.3	Projected	0.0	Total	2.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	2.3	0.0	0.0	0.0	0.0	2.3

Final Form	Stored	2.3	Projected	0.0	Total	2.3

TWBIR ID: RL-W572

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W573

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W573	**Handling**	CH	**Stream Name**	2345Z TRU RH combustible S5390 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	17.63	0.00	0.00
Other Inorganic Materials	2.46	0.00	0.00
Cellulosics	60.54	0.00	0.00
Rubber	19.07	0.00	0.00
Plastics	39.36	0.00	0.00
Solidified, Inorganic Matrix	0.06	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	23.56	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.23E+01
Pu-238	2.13E+00
Pu-239	1.49E-01
Pu-240	1.12E-01
Pu-241	8.80E+02
Pu-242	1.01E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W573

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	15.0	0.0	0.0	0.0	0.0	15.0

As-Generated	Stored	15.0	Projected	0.0	Total	15.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	15.0	0.0	0.0	0.0	0.0	15.0

Final Form	Stored	15.0	Projected	0.0	Total	15.0

TWBIR ID: RL-W573

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W574

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W574	**Handling**	CH	**Stream Name**	2345Z TRU CH heterogeneous S5420 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.05	0.00	0.00
Aluminum-Base Metal/Alloys	0.01	0.00	0.00
Other Metal/Alloys	98.95	0.00	0.00
Other Inorganic Materials	9.58	0.00	0.00
Cellulosics	9.73	0.00	0.00
Rubber	3.73	0.00	0.00
Plastics	29.12	0.00	0.00
Solidified, Inorganic Matrix	0.80	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	10.04	0.00	0.00
Packaging Material, Steel	147.46		
Packaging Material, Plastic	11.38		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.30E+00
Pu-238	1.68E+00
Pu-239	1.04E-01
Pu-240	7.60E-02
Pu-241	7.03E+02
Pu-242	7.80E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W574

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	23.3	0.0	0.0	0.0	0.0	23.3
Standard Waste Box	58.6	0.0	0.0	0.0	0.0	58.6

As-Generated	Stored	81.9	Projected	0.0	Total	81.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	23.3	0.0	0.0	0.0	0.0	23.3
Standard Waste Box	58.6	0.0	0.0	0.0	0.0	58.6

Final Form	Stored	81.9	Projected	0.0	Total	81.9

TWBIR ID: RL-W574

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W575

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W575	**Handling**	CH	**Stream Name**	2345Z TRU CH heterogeneous S5440 Non-mixed	**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.40	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	45.71	0.00	0.00
Other Inorganic Materials	8.03	0.00	0.00
Cellulosics	34.41	0.00	0.00
Rubber	13.99	0.00	0.00
Plastics	49.96	0.00	0.00
Solidified, Inorganic Matrix	0.79	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	23.40	0.00	0.00
Packaging Material, Steel	137.89		
Packaging Material, Plastic	26.28		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.92E+01
Pu-238	3.27E+00
Pu-239	2.87E-01
Pu-240	1.75E-01
Pu-241	1.27E+03
Pu-242	3.92E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W575

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	199.1	0.0	0.0	0.0	0.0	199.1
Standard Waste Box	85.1	0.0	0.0	0.0	0.0	85.1

As-Generated	Stored	284.1	Projected	0.0	Total	284.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	199.1	0.0	0.0	0.0	0.0	199.1
Standard Waste Box	85.1	0.0	0.0	0.0	0.0	85.1

Final Form	Stored	284.1	Projected	0.0	Total	284.1

TWBIR ID: RL-W575

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W576

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W576	**Handling**	CH	**Stream Name**	2345Z TRU CH heterogeneous S5900 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5900

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	55.57	0.00	0.00
Other Inorganic Materials	10.80	0.00	0.00
Cellulosics	18.55	0.00	0.00
Rubber	3.51	0.00	0.00
Plastics	26.16	0.00	0.00
Solidified, Inorganic Matrix	5.87	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.14	0.00	0.00
Soils	13.65	0.00	0.00
Packaging Material, Steel	148.99		
Packaging Material, Plastic	9.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.67E+00
Pu-238	1.58E+00
Pu-239	1.01E-01
Pu-240	7.30E-02
Pu-241	6.60E+02
Pu-242	5.98E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W576

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	8.9	0.0	0.0	0.0	0.0	8.9
Standard Waste Box	32.1	0.0	0.0	0.0	0.0	32.1

As-Generated	Stored	41.1	Projected	0.0	Total	41.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
	0.0	0.0	0.0	0.0	0.0	0.0
55-Gallon Drum	8.9	0.0	0.0	0.0	0.0	8.9
Standard Waste Box	32.1	0.0	0.0	0.0	0.0	32.1

Final Form	Stored	41.1	Projected	0.0	Total	41.1

TWBIR ID: RL-W576

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PLUTONIUM FABRICATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W579

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W579	**Handling**	CH	**Stream Name**	2714U MTRU CH heterogeneous S5420 Mixed RCRA w/ org,met,Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.05	0.05	0.05
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	291.07	291.07	291.07
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	54.00	54.00	54.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	236.31	236.31	236.31
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.52E-01
Pu-238	4.06E-03
Pu-239	4.94E-02
Pu-240	1.11E-02
Pu-241	2.28E-01
Pu-242	6.65E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W579

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W579

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the WAREHOUSE.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the WAREHOUSE.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W580

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W580	**Handling**	CH	**Stream Name**	2718E MTRU CH filter S5410 Mixed State Reg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	117.25	114.42	142.86
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	9.00	5.26	42.86
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	151.71		
Packaging Material, Plastic	4.76		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	1.31E-04
Cs-137	1.42E-04
Pu-239	7.87E-02
Pu-240	1.29E-02
Sr-90	1.30E-04
Tc-99	3.11E-08
Y-90	1.30E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W580

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated	Stored	2.1	Projected	0.0	Total	2.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	2.1	Projected	0.0	Total	2.1

TWBIR ID: RL-W580

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the CRITICAL MASS STORAGE.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the CRITICAL MASS STORAGE.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W581

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W581	**Handling**	CH	**Stream Name**	2718E TRU CH heterogeneous S5440 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	7.21	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	48.07	0.00	0.00
Rubber	64.91	0.00	0.00
Plastics	50.49	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.79E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W581

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W581

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the CRITICAL MASS STORAGE.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the CRITICAL MASS STORAGE.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W582

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W582	**Handling**	CH	**Stream Name**	308 MTRU CH solidified inorganic S3119 Mixed RCRA w/ met,Hg,cor			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.95	0.95	0.95
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.95	0.95	0.95
Cellulosics	0.00	0.00	0.00
Rubber	4.29	4.29	4.29
Plastics	10.48	10.48	10.48
Solidified, Inorganic Matrix	88.10	88.10	88.10
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.36E-02
Ba-137m	4.49E-03
Cs-137	4.88E-03
Pu-238	6.93E-03
Pu-239	2.53E-02
Pu-240	1.32E-02
Pu-241	7.36E-02
Pu-242	3.85E-07
Sr-90	4.45E-03
Tc-99	1.04E-06
Y-90	4.45E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W582

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W582

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W583

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W583	**Handling**	CH	**Stream Name**	308 MTRU CH combustible S5319 Mixed RCRA w/ met,ign			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5319

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	24.00	24.00	24.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	18.00	18.00	18.00
Rubber	12.00	12.00	12.00
Plastics	100.80	100.80	100.80
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.31E-02
Pu-238	3.75E-03
Pu-239	1.43E-01
Pu-240	3.20E-02
Pu-241	4.29E-01
Pu-242	1.93E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W583

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W583

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W584

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W584	**Handling**	CH	**Stream Name**	308 MTRU CH heterogeneous S5420 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	296.24	296.24	296.24
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	19.05	19.05	19.05
Rubber	0.00	0.00	0.00
Plastics	24.24	24.24	24.24
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.81E-01
Ba-137m	8.98E-04
Cs-137	9.76E-04
Pu-238	2.46E-01
Pu-239	8.35E-01
Pu-240	4.10E-01
Pu-241	2.16E+00
Pu-242	1.20E-05
Sr-90	8.91E-04
Tc-99	2.08E-07
Y-90	8.91E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W584

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W584

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W585

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W585	**Handling**	CH	**Stream Name**	308 MTRU CH heterogeneous S5420 Mixed RCRA w/ ign			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	143.57	143.57	143.57
Other Inorganic Materials	1.19	1.19	1.19
Cellulosics	9.52	9.52	9.52
Rubber	0.00	0.00	0.00
Plastics	17.14	17.14	17.14
Solidified, Inorganic Matrix	1.19	1.19	1.19
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.18E-01
Ba-137m	7.10E-06
Cs-137	7.72E-06
Pu-238	6.54E-01
Pu-239	2.43E+00
Pu-240	1.25E+00
Pu-241	3.28E+01
Pu-242	3.64E-04
Sr-90	7.04E-06
Tc-99	1.65E-09
Y-90	7.04E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W585

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	Projected	Total
	0.4	0.0	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	Projected	Total
	0.4	0.0	0.4

TWBIR ID: RL-W585

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W586

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W586	**Handling**	CH	**Stream Name**	308 TRU CH heterogeneous S5440 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	163.20	163.20	163.20
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	90.40	90.40	90.40
Cellulosics	18.00	18.00	18.00
Rubber	18.00	18.00	18.00
Plastics	43.20	43.20	43.20
Solidified, Inorganic Matrix	3.84	3.84	3.84
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.08E-04
Pu-238	5.93E-05
Pu-239	2.26E-03
Pu-240	5.06E-04
Pu-241	6.78E-03
Pu-242	3.05E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W586

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W586

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W587

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W587	**Handling**	CH	**Stream Name**	308 MTRU CH heterogeneous S5440 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	38.10	38.10	76.52
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	37.10	26.30	47.79
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	27.52	19.13	35.85
Rubber	40.67	33.48	47.79
Plastics	62.02	28.68	95.65
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.10E-03
Pu-238	6.38E-04
Pu-239	2.41E-02
Pu-240	5.40E-03
Pu-241	7.60E-02
Pu-242	3.25E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W587

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W587

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W588

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W588	**Handling**	CH	**Stream Name**	308 MTRU CH heterogeneous S5440 Mixed RCRA w/ met,Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	19.05	19.05	19.05
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	37.76	37.76	37.76
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	28.57	28.57	28.57
Rubber	80.95	80.95	80.95
Plastics	38.38	38.38	38.38
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.27E-01
Ba-137m	8.98E-04
Cs-137	9.76E-04
Pu-238	2.07E-01
Pu-239	7.02E-01
Pu-240	3.45E-01
Pu-241	1.81E+00
Pu-242	1.01E-05
Sr-90	8.91E-04
Tc-99	2.08E-07
Y-90	8.91E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W588

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W588

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W589

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W589	**Handling**	CH	**Stream Name**	308 MTRU CH Pb/Cd metal X7219 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Lead/Cadmium Metal	**Waste Matrix Code**	X7219

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1369.05	1369.05	1369.05
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	87.14	87.14	87.14
Rubber	0.00	0.00	0.00
Plastics	90.95	90.95	90.95
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Non-defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	1.30E-04
Cs-137	1.41E-04
Sr-90	1.29E-04
Tc-99	3.01E-08
Y-90	1.29E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W589

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W589

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W590

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W590	**Handling**	CH	**Stream Name**	308 TRU CH solidified organics L2290 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	L2290

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	129.38	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	100.32	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.26E+00
Pu-238	1.49E+00
Pu-239	1.82E-02
Pu-240	3.27E-02
Pu-241	8.01E+01
Pu-242	1.66E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W590

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	0.6	Projected	0.0	Total	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	0.6	Projected	0.0	Total	0.6

TWBIR ID: RL-W590

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W591

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W591	**Handling**	CH	**Stream Name**	308 TRU CH solidified inorganic S3119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	346.15	0.00	0.00
Other Inorganic Materials	12.02	0.00	0.00
Cellulosics	16.82	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	110.57	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.87E+01
Pu-238	5.05E+00
Pu-239	6.78E-02
Pu-240	1.27E-01
Pu-241	1.45E+03
Pu-242	6.41E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W591

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W591

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W592

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W592	**Handling**	CH	**Stream Name**	308 TRU CH uncategorized metal S5119 Non-mixed	**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	456.34	0.00	0.00
Other Inorganic Materials	7.13	0.00	0.00
Cellulosics	4.13	0.00	0.00
Rubber	2.80	0.00	0.00
Plastics	17.79	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	3.33	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.46E+00
Pu-238	4.60E+00
Pu-239	2.62E-01
Pu-240	3.42E-01
Pu-241	4.88E+02
Pu-242	1.12E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W592

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	2.5	0.0	0.0	0.0	0.0	2.5

As-Generated	Stored	Projected	Total
	2.5	0.0	2.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	2.5	0.0	0.0	0.0	0.0	2.5

Final Form	Stored	Projected	Total
	2.5	0.0	2.5

TWBIR ID: RL-W592

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W593

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W593	**Handling**	CH	**Stream Name**	308 TRU CH inorganic non-metal S5121 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5121

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	46.84	0.00	0.00
Other Inorganic Materials	652.22	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	7.27	0.00	0.00
Solidified, Inorganic Matrix	0.64	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-239	3.78E-02
Pu-240	6.42E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W593

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	0.6	Projected	0.0	Total	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	0.6	Projected	0.0	Total	0.6

TWBIR ID: RL-W593

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W594

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W594	**Handling**	CH	**Stream Name**	308 TRU CH combustible S5319 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5319

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	7.73	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	51.79	0.00	0.00
Other Inorganic Materials	2.81	0.00	0.00
Cellulosics	4.16	0.00	0.00
Rubber	22.72	0.00	0.00
Plastics	234.84	0.00	0.00
Solidified, Inorganic Matrix	1.12	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.10	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.86E+01
Pu-238	8.30E-01
Pu-239	1.17E-02
Pu-240	2.17E-02
Pu-241	1.22E+02
Pu-242	4.10E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W594

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	2.5	0.0	0.0	0.0	0.0	2.5

As-Generated	Stored	2.5	Projected	0.0	Total	2.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	2.5	0.0	0.0	0.0	0.0	2.5

Final Form	Stored	2.5	Projected	0.0	Total	2.5

TWBIR ID: RL-W594

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W595

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W595	**Handling**	CH	**Stream Name**	308 TRU CH combustible S5390 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	70.39	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	42.65	0.00	0.00
Rubber	4.26	0.00	0.00
Plastics	48.55	0.00	0.00
Solidified, Inorganic Matrix	4.01	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.40E-02
Pu-238	3.46E-01
Pu-239	3.20E-02
Pu-240	6.31E-02
Pu-241	4.84E+00
Pu-242	3.83E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W595

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	0.6	Projected	0.0	Total	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	0.6	Projected	0.0	Total	0.6

TWBIR ID: RL-W595

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W596

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W596	**Handling**	CH	**Stream Name**	308 TRU CH filter S5410 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	9.95	0.00	0.00
Cellulosics	6.02	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.21	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.84E-03
Pu-238	1.78E-03
Pu-239	2.18E-05
Pu-240	3.92E-05
Pu-241	9.60E-02
Pu-242	1.99E-11

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W596

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	9.4	0.0	0.0	0.0	0.0	9.4

As-Generated	Stored	Projected	Total
	9.4	0.0	9.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	9.4	0.0	0.0	0.0	0.0	9.4

Final Form	Stored	Projected	Total
	9.4	0.0	9.4

TWBIR ID: RL-W596

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W597

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W597	**Handling**	CH	**Stream Name**	308 TRU CH heterogeneous S5420 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	305.22	0.00	0.00
Other Inorganic Materials	51.90	0.00	0.00
Cellulosics	10.49	0.00	0.00
Rubber	0.19	0.00	0.00
Plastics	44.33	0.00	0.00
Solidified, Inorganic Matrix	10.85	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.00E+01
Pu-238	2.37E+00
Pu-239	1.28E-01
Pu-240	2.15E-01
Pu-241	5.43E+02
Pu-242	2.35E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W597

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	3.1	0.0	0.0	0.0	0.0	3.1

As-Generated	Stored	3.1	Projected	0.0	Total	3.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	3.1	0.0	0.0	0.0	0.0	3.1

Final Form	Stored	3.1	Projected	0.0	Total	3.1

TWBIR ID: RL-W597

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W598

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W598	**Handling**	CH	**Stream Name**	308 TRU CH heterogeneous S5440 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	38.60	0.00	0.00
Aluminum-Base Metal/Alloys	0.10	0.00	0.00
Other Metal/Alloys	87.53	0.00	0.00
Other Inorganic Materials	17.28	0.00	0.00
Cellulosics	28.93	0.00	0.00
Rubber	9.83	0.00	0.00
Plastics	72.51	0.00	0.00
Solidified, Inorganic Matrix	2.83	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.25	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.92E+00
Pu-238	4.99E+00
Pu-239	6.36E-02
Pu-240	9.58E-02
Pu-241	2.00E+02
Pu-242	4.98E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W598

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	8.7	0.0	0.0	0.0	0.0	8.7

As-Generated	Stored	8.7	Projected	0.0	Total	8.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	8.7	0.0	0.0	0.0	0.0	8.7

Final Form	Stored	8.7	Projected	0.0	Total	8.7

TWBIR ID: RL-W598

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W599

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W599	**Handling**	CH	**Stream Name**	308 TRU CH heterogeneous S5900 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5900

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	346.15	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	5.78	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	49.04	0.00	0.00
Solidified, Inorganic Matrix	153.87	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.28E+00
Pu-238	1.69E+00
Pu-239	2.26E-02
Pu-240	4.24E-02
Pu-241	4.84E+02
Pu-242	2.14E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W599

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W599

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the FUELS DEVELOPMENT LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W600

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W600	**Handling**	CH	**Stream Name**	318 TRU CH solidified inorganic S3119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	180.00	180.00	360.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	24.00	24.00	48.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	163.20	153.60	172.80
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.48E-07
Pu-238	4.23E-08
Pu-239	1.61E-06
Pu-240	3.61E-07
Pu-241	4.84E-06
Pu-242	2.18E-11

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W600

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.2	0.0	0.0	0.0	0.6

As-Generated	Stored	Projected	Total
	0.4	0.2	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	Projected	Total
	0.4	0.2	0.6

TWBIR ID: RL-W600

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the RADIOLOGICAL CALIBRATIONS LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the RADIOLOGICAL CALIBRATIONS LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W601

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W601	**Handling**	CH	**Stream Name**	324 MTRU CH solidified organics L2290 Mixed RCRA w/ met,ign			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	L2290

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	59.05	59.05	59.05
Other Inorganic Materials	14.39	14.39	14.39
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	19.13	19.13	19.13
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	59.52	59.52	59.52
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.33E-04
Ba-137m	8.20E-05
Cs-137	8.92E-05
Pu-238	1.54E-04
Pu-239	5.39E-03
Pu-240	1.21E-03
Pu-241	2.68E-02
Pu-242	7.27E-08
Sr-90	8.18E-05
Tc-99	1.74E-08
Y-90	8.18E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W601

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.4	0.0	0.0	0.0	0.8

As-Generated	Stored	Projected	Total
	0.4	0.4	0.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.8

Final Form	Stored	Projected	Total
	0.4	0.4	0.8

TWBIR ID: RL-W601

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W602

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W602	**Handling**	CH	**Stream Name**	324 TRU CH Pb/Cd metal S5112 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Lead/Cadmium Metal	**Waste Matrix Code**	S5112

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	2105.26	2105.26	2105.26
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	78.95	54.74	103.16
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	149.84		
Packaging Material, Plastic	7.68		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.69E-01
Pu-238	5.88E-02
Pu-239	2.19E+00
Pu-240	4.91E-01
Pu-241	7.60E+00
Pu-242	2.95E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W602

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	0.0	0.4	0.0	0.0	0.0	0.4
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated	Stored	1.9	Projected	0.4	Total	2.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	0.4
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	1.9	Projected	0.4	Total	2.3

TWBIR ID: RL-W602

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W603

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W603	**Handling**	CH	**Stream Name**	324 TRU CH uncategorized metal S5119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	79.83	3.62	141.84
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.58E-01
Pu-238	1.25E-01
Pu-239	4.64E+00
Pu-240	1.04E+00
Pu-241	1.61E+01
Pu-242	6.25E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W603

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	7.6	0.0	0.0	0.0	0.0	7.6

As-Generated	Stored	Projected	Total
	7.6	0.0	7.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	7.6	0.0	0.0	0.0	0.0	7.6

Final Form	Stored	Projected	Total
	7.6	0.0	7.6

TWBIR ID: RL-W603

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W604

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W604	**Handling**	CH	**Stream Name**	324 MTRU CH uncategorized metal S5119 Mixed RCRA w/ org			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	161.81	161.81	161.81
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	3.76	3.76	3.76
Rubber	0.00	0.00	0.00
Plastics	24.69	24.69	24.69
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.36E-02
Ba-137m	1.61E-01
Cs-137	1.70E-01
Pu-238	1.18E-02
Pu-239	8.14E-02
Pu-240	4.05E-02
Pu-241	6.90E-01
Pu-242	3.97E-06
Sr-90	1.68E-03
Y-90	1.68E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W604

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W604

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W605

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W605	**Handling**	CH	**Stream Name**	324 MTRU CH combustible S5330 Mixed RCRA w/ org			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5330

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	100.00	100.00	100.00
Rubber	0.00	0.00	0.00
Plastics	28.57	28.57	28.57
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.23E-03
Ba-137m	3.30E-03
Cs-137	3.59E-03
Pu-238	2.57E-03
Pu-239	9.01E-02
Pu-240	2.02E-02
Pu-241	4.48E-01
Pu-242	1.21E-06
Sr-90	3.29E-03
Tc-99	6.99E-07
Y-90	3.29E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W605

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W605

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W606

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W606	**Handling**	CH	**Stream Name**	324 MTRU CH combustible S5390 Mixed RCRA w/ org			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	193.33	193.33	193.33
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	117.14	117.14	117.14
Rubber	111.90	111.90	111.90
Plastics	71.43	71.43	71.43
Solidified, Inorganic Matrix	2.38	2.38	2.38
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.98E-04
Ba-137m	1.61E-02
Cs-137	1.75E-02
Pu-238	1.03E-03
Pu-239	3.63E-02
Pu-240	8.13E-03
Pu-241	1.81E-01
Pu-242	4.90E-07
Sr-90	1.60E-02
Tc-99	3.40E-06
Y-90	1.60E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W606

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W606

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W607

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W607	**Handling**	CH	**Stream Name**	324 MTRU CH heterogeneous S5440 Mixed RCRA w/ org			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	45.19	45.19	45.19
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	116.52	116.52	116.52
Rubber	0.00	0.00	0.00
Plastics	19.05	19.05	19.05
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.02E-03
Ba-137m	1.42E-01
Cs-137	1.50E-01
Pu-238	2.00E-03
Pu-239	1.38E-02
Pu-240	6.85E-03
Pu-241	1.16E-01
Pu-242	6.70E-07
Sr-90	1.48E-03
Y-90	1.48E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W607

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W607

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W608

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W608	**Handling**	CH	**Stream Name**	324 MTRU CH heterogeneous S5490 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5490

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	3.41	3.66	3.66
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	16.96	12.24	80.95
Other Inorganic Materials	102.62	85.62	333.33
Cellulosics	0.29	4.16	4.16
Rubber	0.00	0.00	0.00
Plastics	1.80	1.93	1.93
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	152.42		
Packaging Material, Plastic	3.66		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.23E-03
Ba-137m	2.02E-01
Cs-137	2.13E-01
Pu-238	2.67E-03
Pu-239	6.14E-04
Pu-240	7.63E-04
Pu-241	6.14E-02
Pu-242	1.77E-06
Sr-90	1.37E-01
Y-90	1.37E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W608

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Standard Waste Box	5.7	0.0	0.0	0.0	0.0	5.7

As-Generated	Stored	6.1	Projected	0.0	Total	6.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Standard Waste Box	5.7	0.0	0.0	0.0	0.0	5.7

Final Form	Stored	6.1	Projected	0.0	Total	6.1

TWBIR ID: RL-W608

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W610

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W610	**Handling**	CH	**Stream Name**	324 TRU CH Pb/Cd metal X7219 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Lead/Cadmium Metal	**Waste Matrix Code**	X7219

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1024.21	1024.21	1024.21
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	863.26	863.26	863.26
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.04E-01
Pu-238	2.29E-01
Pu-239	8.74E+00
Pu-240	1.96E+00
Pu-241	2.63E+01
Pu-242	1.18E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W610

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8

As-Generated	Stored	3.8	Projected	0.0	Total	3.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8

Final Form	Stored	3.8	Projected	0.0	Total	3.8

TWBIR ID: RL-W610

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W612

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W612	**Handling**	CH	**Stream Name**	324 TRU CH solidified inorganic S3119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	8.82	0.00	0.00
Other Inorganic Materials	2.65	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	53.48	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	140.05		
Packaging Material, Plastic	22.91		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.26E-04
Ba-137m	1.17E-02
Cs-137	1.30E-02
Pu-238	2.13E-04
Pu-239	8.15E-03
Pu-240	1.83E-03
Pu-241	2.39E-02
Pu-242	1.10E-07
Sr-90	1.15E-02
Tc-99	3.19E-06
Y-90	1.15E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W612

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	2.9
Standard Waste Box	0.0	0.0	0.0	0.0	0.0	1.9

As-Generated	Stored	0.2	Projected	4.6	Total	4.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	2.9
Standard Waste Box	0.0	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	0.2	Projected	4.6	Total	4.8

TWBIR ID: RL-W612

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W613

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W613	**Handling**	RH	**Stream Name**	324 TRU RH uncategorized metal S5119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	141.11	141.11	326.82
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	510.44	6.43	1274.26
Other Inorganic Materials	0.64	0.05	7.17
Cellulosics	1.80	0.03	27.90
Rubber	6.42	0.53	30.87
Plastics	3.03	0.20	9.57
Solidified, Inorganic Matrix	0.42	0.42	13.51
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.58E+00
Ba-137m	8.69E+02
Cs-137	9.19E+02
Pu-238	7.23E-02
Pu-239	1.39E-01
Pu-240	3.38E-02
Pu-241	1.05E+00
Pu-242	1.28E-03
Sr-90	4.49E+02
Y-90	4.49E+02

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W613

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	45.4	0.0	0.0	0.0	0.0	45.4

As-Generated	Stored	Projected	Total
	45.4	0.0	45.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	45.4	0.0	0.0	0.0	0.0	45.4

Final Form	Stored	Projected	Total
	45.4	0.0	45.4

TWBIR ID: RL-W613

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W614

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W614	**Handling**	RH	**Stream Name**	324 MTRU RH uncategorized metal S5119 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	293.95	287.83	297.40
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	288.50	244.50	335.34
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	2.19	2.19	6.57
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	10.37	10.37	19.70
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.24E+00
Ba-137m	1.89E+03
Cs-137	2.00E+03
Pu-238	4.56E-01
Pu-239	8.52E-02
Pu-240	8.33E-02
Pu-241	4.10E+00
Pu-242	1.39E-04
Sr-90	1.50E+03
Y-90	1.50E+03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W614

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	15.1	21.4	0.0	0.0	0.0	36.5

As-Generated	Stored	15.1	Projected	21.4	Total	36.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	15.1	0.0	0.0	0.0	0.0	36.5

Final Form	Stored	15.1	Projected	21.4	Total	36.5

TWBIR ID: RL-W614

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W615

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W615	**Handling**	CH	**Stream Name**	324 TRU CH inorganic non-metal S5122 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5122

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	166.67	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	335.45	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-239	1.79E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W615

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated	Stored	Projected	Total
	1.9	0.0	1.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	Projected	Total
	1.9	0.0	1.9

TWBIR ID: RL-W615

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W616

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W616	**Handling**	RH	**Stream Name**	324 TRU RH inorganic non-metal S5190 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5190

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	768.48	750.11	807.57
Other Inorganic Materials	1302.99	1252.85	1376.16
Cellulosics	0.05	0.05	0.19
Rubber	19.66	18.98	20.85
Plastics	15.39	1.90	20.85
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.34E+00
Ba-137m	5.25E+02
Cs-137	5.55E+02
Pu-238	1.05E-01
Pu-239	3.28E-02
Pu-240	3.21E-02
Pu-241	1.51E+00
Pu-242	5.37E-05
Sr-90	5.51E+02
Y-90	5.51E+02

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W616

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	5.3	0.0	0.0	0.0	0.0	5.3

As-Generated	Stored	Projected	Total
	5.3	0.0	5.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	5.3	0.0	0.0	0.0	0.0	5.3

Final Form	Stored	Projected	Total
	5.3	0.0	5.3

TWBIR ID: RL-W616

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W617

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W617	**Handling**	RH	**Stream Name**	324 TRU RH filter S5410 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	261.43	261.43	261.43
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	164.38	164.38	164.38
Cellulosics	0.00	0.00	0.00
Rubber	1.41	1.41	1.41
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.30E-01
Ba-137m	7.57E+01
Cs-137	8.00E+01
Pu-238	1.49E-02
Pu-239	4.63E-03
Pu-240	4.52E-03
Pu-241	2.22E-01
Pu-242	7.52E-06
Sr-90	7.94E+01
Y-90	7.94E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W617

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	1.8	0.0	0.0	0.0	0.0	1.8

As-Generated	Stored	Projected	Total
	1.8	0.0	1.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	1.8	0.0	0.0	0.0	0.0	1.8

Final Form	Stored	Projected	Total
	1.8	0.0	1.8

TWBIR ID: RL-W617

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W618

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W618	**Handling**	RH	**Stream Name**	324 TRU RH heterogeneous S5420 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	2737.01	349.16	7726.47
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	1290.48	672.25	2615.35
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	9.88	9.88	14.94
Plastics	39.50	39.50	59.76
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.50E+00
Ba-137m	5.56E+02
Cs-137	3.00E+02
Pu-238	5.90E-01
Pu-239	7.78E-02
Pu-240	7.42E-02
Pu-241	2.52E+02
Pu-242	1.22E-06
Sr-90	1.17E+01
Y-90	1.17E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W618

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	1.8	0.0	0.0	0.0	0.0	1.8

As-Generated	Stored	1.8	Projected	0.0	Total	1.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	1.8	0.0	0.0	0.0	0.0	1.8

Final Form	Stored	1.8	Projected	0.0	Total	1.8

TWBIR ID: RL-W618

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W619

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W619	**Handling**	RH	**Stream Name**	324 MTRU RH heterogeneous S5420 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	312.95	287.14	342.25
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	211.92	188.84	243.31
Other Inorganic Materials	0.70	0.70	3.52
Cellulosics	0.02	0.02	0.10
Rubber	0.00	0.00	0.00
Plastics	0.20	0.20	1.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	123.18	66.05	235.43
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.13E+01
Ba-137m	3.36E+03
Cs-137	3.55E+03
Pu-238	8.02E-01
Pu-239	1.57E-01
Pu-240	1.54E-01
Pu-241	7.32E+00
Pu-242	2.36E-04
Sr-90	2.23E+03
Y-90	2.23E+03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W619

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	24.9	0.0	0.0	0.0	0.0	24.9

As-Generated	Stored	Projected	Total
	24.9	0.0	24.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	24.9	0.0	0.0	0.0	0.0	24.9

Final Form	Stored	Projected	Total
	24.9	0.0	24.9

TWBIR ID: RL-W619

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W620

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W620	**Handling**	RH	**Stream Name**	324 TRU RH heterogeneous S5440 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	261.43	261.43	261.43
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	229.55	229.55	229.55
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.24E-02
Ba-137m	2.11E+01
Cs-137	2.23E+01
Pu-238	4.18E-03
Pu-239	1.30E-03
Pu-240	1.27E-03
Pu-241	6.22E-02
Pu-242	2.13E-06
Sr-90	2.23E+01
Y-90	2.23E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W620

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	1.8	0.0	0.0	0.0	0.0	1.8

As-Generated	Stored	Projected	Total
	1.8	0.0	1.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	1.8	0.0	0.0	0.0	0.0	1.8

Final Form	Stored	Projected	Total
	1.8	0.0	1.8

TWBIR ID: RL-W620

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W621

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W621	**Handling**	RH	**Stream Name**	324 MTRU RH heterogeneous S5490 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5490

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	5.98	5.28	6.67
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	17.38	16.65	18.10
Other Inorganic Materials	96.14	92.40	99.88
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	2.65	1.85	3.45
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.26E-03
Ba-137m	9.64E-01
Cs-137	1.02E+00
Pu-238	1.10E-02
Pu-239	1.14E-03
Pu-240	2.08E-03
Pu-241	2.96E-01
Pu-242	8.57E-06
Sr-90	6.56E-01
Y-90	6.56E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W621

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	12.5	0.0	0.0	0.0	0.0	12.5

As-Generated	Stored	12.5	Projected	0.0	Total	12.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	12.5	0.0	0.0	0.0	0.0	12.5

Final Form	Stored	12.5	Projected	0.0	Total	12.5

TWBIR ID: RL-W621

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W622

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W622	**Handling**	CH	**Stream Name**	324 TRU CH Pb/Cd metal X7219 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Lead/Cadmium Metal	**Waste Matrix Code**	X7219

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	892.80	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	44.57	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.37E-05
Pu-238	1.82E-05
Pu-239	6.93E-04
Pu-240	1.55E-04
Pu-241	2.08E-03
Pu-242	9.35E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W622

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated	Stored	Projected	Total
	1.9	0.0	1.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	Projected	Total
	1.9	0.0	1.9

TWBIR ID: RL-W622

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W623

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W623	**Handling**	RH	**Stream Name**	324 MTRU RH Pb/Cd metal X7219 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Lead/Cadmium Metal	**Waste Matrix Code**	X7219

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	434.76	294.29	575.22
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	140.00	132.07	147.93
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.12E-02
Ba-137m	3.04E+01
Cs-137	3.22E+01
Pu-238	6.98E-03
Pu-239	1.17E-03
Pu-240	1.15E-03
Pu-241	5.37E-02
Pu-242	1.91E-06
Sr-90	1.72E+01
Y-90	1.72E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W623

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	9.8	0.0	0.0	0.0	0.0	9.8

As-Generated	Stored	9.8	Projected	0.0	Total	9.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	9.8	0.0	0.0	0.0	0.0	9.8

Final Form	Stored	9.8	Projected	0.0	Total	9.8

TWBIR ID: RL-W623

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMICAL ENGINEERING BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W625

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W625	**Handling**	CH	**Stream Name**	325 MTRU CH solidified inorganic L1190 Mixed State Reg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	L1190

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	4.76	4.76	4.76
Solidified, Inorganic Matrix	28.42	28.42	28.42
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.40E-03
Pu-238	2.49E-02
Pu-239	3.19E-02
Pu-240	3.15E-02
Pu-241	1.02E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W625

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W625

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W626

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W626	**Handling**	CH	**Stream Name**	325 MTRU CH solidified inorganic S3113 Mixed RCRA w/ met,Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3113

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	11.62	11.62	11.62
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	10.67	10.67	10.67
Other Inorganic Materials	11.62	11.62	11.62
Cellulosics	3.62	3.62	3.62
Rubber	0.00	0.00	0.00
Plastics	15.90	15.90	15.90
Solidified, Inorganic Matrix	321.69	321.69	321.69
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.67E+00
Pu-238	5.65E-01
Pu-239	1.25E+00
Pu-240	7.55E-01
Pu-241	1.77E+01
Pu-242	3.98E-04
U-235	9.40E-06
U-238	6.45E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W626

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W626

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W627

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W627	**Handling**	CH	**Stream Name**	325 MTRU CH solidified inorganic S3119 Mixed RCRA w/ org,met,ign,cor			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	23.43	23.43	23.43
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	193.33	193.33	193.33
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.48E-03
Ba-137m	4.15E-03
Cs-137	4.51E-03
Pu-238	7.59E-04
Pu-239	5.90E-06
Pu-241	2.11E-01
Sr-90	4.11E-03
Tc-99	9.84E-07
Y-90	4.11E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W627

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: RL-W627

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W628

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W628	**Handling**	CH	**Stream Name**	325 MTRU CH solidified inorganic S3119 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	105.60	105.60	105.60
Other Inorganic Materials	14.40	14.40	14.40
Cellulosics	2.40	2.40	2.40
Rubber	4.80	4.80	4.80
Plastics	20.16	20.16	20.16
Solidified, Inorganic Matrix	101.76	101.76	101.76
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.57E-03
Pu-238	4.76E-04
Pu-239	1.80E-02
Pu-240	4.03E-03
Pu-241	5.67E-02
Pu-242	2.43E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W628

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W628

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W629

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W629	**Handling**	CH	**Stream Name**	325 MTRU CH solidified inorganic S3119 Mixed RCRA w/cor			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	4.76	4.76	4.76
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	36.67	36.67	36.67
Solidified, Inorganic Matrix	63.67	63.67	63.67
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.68E-05
Pu-238	3.27E-05
Pu-239	1.21E-03
Pu-240	2.71E-04
Pu-241	4.40E-03
Pu-242	1.63E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W629

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W629

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W630

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W630	**Handling**	CH	**Stream Name**	325 TRU CH uncategorized metal S5119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	621.67	621.67	1242.74
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	135.49	9.07	262.03
Other Inorganic Materials	4.54	4.54	9.07
Cellulosics	4.54	4.54	9.07
Rubber	3.02	3.02	6.04
Plastics	19.56	7.15	31.96
Solidified, Inorganic Matrix	1.19	1.19	2.38
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.90E-01
Pu-238	3.06E-01
Pu-239	7.00E+00
Pu-240	1.63E+00
Pu-241	2.39E+01
Pu-242	2.81E-04
U-238	7.02E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W630

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W630

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W631

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W631	**Handling**	CH	**Stream Name**	325 MTRU CH uncategorized metal S5119 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	358.33	230.95	485.71
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	15.48	14.29	16.67
Solidified, Inorganic Matrix	9.52	9.52	9.52
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.66E-03
Ba-137m	4.92E-08
Cs-137	5.35E-08
Pu-238	3.06E-03
Pu-239	1.07E-01
Pu-240	2.41E-02
Pu-241	5.35E-01
Pu-242	1.45E-06
Sr-90	4.91E-08
Tc-99	1.04E-11
Y-90	4.91E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W631

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	Projected	Total
	0.4	0.0	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	Projected	Total
	0.4	0.0	0.4

TWBIR ID: RL-W631

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W632

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W632	**Handling**	CH	**Stream Name**	325 MTRU CH combustible S5319 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5319

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	272.38	272.38	272.38
Cellulosics	12.38	12.38	12.38
Rubber	0.00	0.00	0.00
Plastics	119.05	119.05	119.05
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.39E+00
Ba-137m	9.62E-03
Cs-137	1.05E-02
Pu-238	8.31E-01
Pu-239	2.84E+01
Pu-240	9.38E+00
Pu-241	3.56E+02
Pu-242	3.96E-03
Sr-90	9.58E-03
Tc-99	2.08E-06
Y-90	9.58E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W632

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W632

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W633

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W633	**Handling**	CH	**Stream Name**	325 TRU CH combustible S5390 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	39.00	39.00	39.00
Other Inorganic Materials	5.19	5.19	5.19
Cellulosics	104.00	104.00	104.00
Rubber	52.00	52.00	52.00
Plastics	64.57	64.57	64.57
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.94E-02
Pu-238	4.79E-03
Pu-239	4.46E-03
Pu-240	3.96E-03
Pu-241	4.39E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W633

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W633

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W634

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W634	**Handling**	CH	**Stream Name**	325 TRU CH filter S5410 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	61.90	61.90	61.90
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	11.43	11.43	11.43
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-239	4.87E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W634

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W634

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W635

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W635	**Handling**	CH	**Stream Name**	325 TRU CH heterogeneous S5420 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	714.26	49.25	6116.15
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	78.22	9.84	405.77
Other Inorganic Materials	140.68	6.37	1989.62
Cellulosics	8.76	4.43	44.57
Rubber	0.41	0.98	15.31
Plastics	9.35	1.43	127.33
Solidified, Inorganic Matrix	0.17	0.47	4.92
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	148.04		
Packaging Material, Plastic	10.48		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.55E+00
Ba-137m	5.35E-02
Cs-137	5.66E-02
Pu-238	2.21E+00
Pu-239	2.82E-01
Pu-240	4.24E-01
Pu-241	6.04E+01
Pu-242	1.49E-03
Sr-90	1.14E-01
U-235	1.27E-05
Y-90	1.14E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W635

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	4.0	0.0	0.0	0.0	0.0	4.0
Standard Waste Box	11.4	0.0	0.0	0.0	0.0	11.4

As-Generated	Stored	15.4	Projected	0.0	Total	15.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	4.0	0.0	0.0	0.0	0.0	4.0
Standard Waste Box	11.4	0.0	0.0	0.0	0.0	11.4

Final Form	Stored	15.4	Projected	0.0	Total	15.4

TWBIR ID: RL-W635

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W636

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W636	**Handling**	CH	**Stream Name**	325 MTRU CH heterogeneous S5420 Mixed RCRA w/ org,met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	2295.28	1904.00	2742.56
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	67.35	5.47	136.26
Other Inorganic Materials	56.13	1.06	144.45
Cellulosics	10.14	4.25	17.06
Rubber	1.65	0.26	4.75
Plastics	50.03	13.67	117.25
Solidified, Inorganic Matrix	1.31	0.79	4.38
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.57E-01
Ba-137m	8.39E-02
Cs-137	8.87E-02
Pu-238	6.14E-02
Pu-239	5.40E-02
Pu-240	4.81E-02
Pu-241	5.39E+00
Pu-242	5.38E-05
Sr-90	1.78E-01
Y-90	1.78E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W636

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0

As-Generated	Stored	Projected	Total
	1.0	0.0	1.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0

Final Form	Stored	Projected	Total
	1.0	0.0	1.0

TWBIR ID: RL-W636

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W637

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W637	**Handling**	CH	**Stream Name**	325 MTRU CH heterogeneous S5420 Mixed RCRA w/ org,met,Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	120.66	120.66	307.16
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	486.67	20.20	788.46
Other Inorganic Materials	23.81	23.81	39.21
Cellulosics	0.79	0.79	1.31
Rubber	0.00	0.00	0.00
Plastics	15.87	8.08	20.91
Solidified, Inorganic Matrix	27.78	9.15	56.57
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.04E-03
Ba-137m	2.97E-02
Cs-137	3.14E-02
Pu-238	2.60E-03
Pu-239	1.01E-03
Pu-240	1.00E-03
Pu-241	3.22E-02
Sr-90	1.20E-02
Y-90	1.20E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W637

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	0.6	Projected	0.0	Total	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	0.6	Projected	0.0	Total	0.6

TWBIR ID: RL-W637

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W638

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W638	**Handling**	CH	**Stream Name**	325 MTRU CH heterogeneous S5420 Mixed RCRA w/ org			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	227.11	63.16	1941.43
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	1.76	1.25	2.69
Other Inorganic Materials	449.26	6.73	651.60
Cellulosics	4.79	2.93	16.15
Rubber	0.42	8.07	8.07
Plastics	10.15	6.17	24.94
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	152.80		
Packaging Material, Plastic	3.07		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.35E-03
Ba-137m	8.50E-02
Cs-137	8.98E-02
H-3	7.37E-04
Pu-238	4.17E-03
Pu-239	1.56E-03
Pu-240	1.48E-03
Pu-241	1.89E-01
Pu-242	1.09E-06
Sr-90	1.52E-01
Y-90	1.52E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W638

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8

As-Generated	Stored	4.0	Projected	0.0	Total	4.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8

Final Form	Stored	4.0	Projected	0.0	Total	4.0

TWBIR ID: RL-W638

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W639

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W639	**Handling**	CH	**Stream Name**	325 MTRU CH heterogeneous S5420 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	423.81	423.81	963.78
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	44.60	0.36	104.54
Other Inorganic Materials	64.62	32.08	115.64
Cellulosics	39.84	12.20	72.19
Rubber	1.59	1.59	5.81
Plastics	66.51	16.59	97.10
Solidified, Inorganic Matrix	7.30	7.30	26.72
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.10E-03
Pu-238	6.77E-04
Pu-239	2.54E-02
Pu-240	5.69E-03
Pu-241	8.40E-02
Pu-242	3.43E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W639

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	Projected	Total
	0.6	0.0	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	Projected	Total
	0.6	0.0	0.6

TWBIR ID: RL-W639

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W640

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W640	**Handling**	CH	**Stream Name**	325 MTRU CH heterogeneous S5420 Mixed RCRA w/ met,Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	240.00	240.00	240.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	24.00	24.00	24.00
Rubber	12.00	12.00	12.00
Plastics	28.80	28.80	28.80
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.24E-01
Pu-238	6.79E-02
Pu-239	2.57E+00
Pu-240	5.75E-01
Pu-241	8.09E+00
Pu-242	3.46E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W640

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W640

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W641

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W641	**Handling**	CH	**Stream Name**	325 TRU CH heterogeneous S5440 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	36.26	36.26	307.02
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	49.83	9.60	231.92
Other Inorganic Materials	35.00	2.40	187.12
Cellulosics	33.57	3.21	177.84
Rubber	10.45	0.15	70.27
Plastics	83.46	4.80	222.61
Solidified, Inorganic Matrix	2.74	1.92	23.57
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.18E-01
Ba-137m	9.28E-02
Cs-137	9.81E-02
H-3	1.53E-03
Pu-238	5.72E-01
Pu-239	4.75E-01
Pu-240	1.96E-01
Pu-241	5.00E+00
Pu-242	3.32E-05
Sr-90	1.70E-01
Y-90	1.70E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W641

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	5.5	0.0	0.0	0.0	0.0	5.5

As-Generated	Stored	5.5	Projected	0.0	Total	5.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	5.5	0.0	0.0	0.0	0.0	5.5

Final Form	Stored	5.5	Projected	0.0	Total	5.5

TWBIR ID: RL-W641

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W642

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W642	**Handling**	CH	**Stream Name**	325 MTRU CH heterogeneous S5440 Mixed RCRA w/ org,met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1416.29	1314.19	1716.67
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	52.04	1.67	258.00
Other Inorganic Materials	9.10	6.86	26.57
Cellulosics	5.12	1.57	16.67
Rubber	8.93	8.93	71.43
Plastics	47.26	23.81	104.76
Solidified, Inorganic Matrix	6.63	2.38	12.86
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.72E-02
Ba-137m	6.00E-01
Cs-137	6.34E-01
Pu-238	1.93E-04
Pu-239	1.88E-02
Pu-240	9.67E-05
Pu-241	7.03E-03
Pu-242	4.60E-08
Sr-90	1.14E+00
Y-90	1.14E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W642

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.7	0.0	0.0	0.0	0.0	1.7

As-Generated	Stored	Projected	Total
	1.7	0.0	1.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.7	0.0	0.0	0.0	0.0	1.7

Final Form	Stored	Projected	Total
	1.7	0.0	1.7

TWBIR ID: RL-W642

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W643

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W643	**Handling**	CH	**Stream Name**	325 MTRU CH heterogeneous S5440 Mixed RCRA w/ org,met,Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1411.88	1309.57	1723.81
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	43.12	4.76	340.19
Other Inorganic Materials	17.33	6.81	28.81
Cellulosics	9.54	2.43	42.86
Rubber	0.83	0.83	4.29
Plastics	53.26	27.19	104.76
Solidified, Inorganic Matrix	5.59	2.38	17.43
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.18E-01
Ba-137m	9.28E-02
Cs-137	9.81E-02
H-3	1.53E-03
Pu-238	5.72E-01
Pu-239	4.75E-01
Pu-240	1.96E-01
Pu-241	5.00E+00
Pu-242	3.32E-05
Sr-90	1.70E-01
Y-90	1.70E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W643

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.7	0.0	0.0	0.0	0.0	1.7

As-Generated	Stored	Projected	Total
	1.7	0.0	1.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.7	0.0	0.0	0.0	0.0	1.7

Final Form	Stored	Projected	Total
	1.7	0.0	1.7

TWBIR ID: RL-W643

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W644

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W644	**Handling**	CH	**Stream Name**	325 MTRU CH heterogeneous S5440 Mixed RCRA w/ org			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1714.29	1714.29	1714.29
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	100.92	50.90	281.86
Other Inorganic Materials	3.21	2.38	5.24
Cellulosics	16.19	14.29	19.52
Rubber	0.00	0.00	0.00
Plastics	122.85	109.05	153.29
Solidified, Inorganic Matrix	1.19	0.95	3.81
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	6.01E-01
Cs-137	6.35E-01
Pu-239	6.54E-02
Sr-90	2.40E+00
Y-90	2.40E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W644

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8

As-Generated	Stored	0.8	Projected	0.0	Total	0.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8

Final Form	Stored	0.8	Projected	0.0	Total	0.8

TWBIR ID: RL-W644

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W645

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W645	**Handling**	CH	**Stream Name**	325 MTRU CH heterogeneous S5440 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	212.96	0.27	1114.45
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	40.50	2.75	127.72
Other Inorganic Materials	36.62	5.49	97.64
Cellulosics	31.90	5.32	60.12
Rubber	20.86	5.11	76.68
Plastics	78.47	18.40	183.55
Solidified, Inorganic Matrix	5.80	5.80	23.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.62E-03
Pu-238	2.94E-03
Pu-239	7.33E-02
Pu-240	1.74E-02
Pu-241	3.12E-01
Pu-242	9.72E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W645

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated	Stored	1.5	Projected	0.0	Total	1.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.5	0.0	0.0	0.0	0.0	1.5

Final Form	Stored	1.5	Projected	0.0	Total	1.5

TWBIR ID: RL-W645

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W646

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W646	**Handling**	CH	**Stream Name**	325 MTRU CH heterogeneous S5440 Mixed RCRA w/ met,Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	85.76	0.10	171.43
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	49.51	0.22	98.81
Other Inorganic Materials	14.66	9.55	19.76
Cellulosics	29.87	22.41	37.33
Rubber	20.69	20.69	41.38
Plastics	9.52	9.52	9.52
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.37E-02
Ba-137m	8.44E-02
Cs-137	8.92E-02
Pu-238	9.18E-03
Pu-239	6.14E-02
Pu-240	3.01E-02
Pu-241	5.32E-01
Sr-90	1.35E-01
Y-90	1.35E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W646

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W646

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W647

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W647	**Handling**	CH	**Stream Name**	325 MTRU CH heterogeneous S5440 Mixed State Reg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	81.83	81.83	81.83
Other Inorganic Materials	24.23	24.23	24.23
Cellulosics	9.37	9.37	9.37
Rubber	14.17	14.17	14.17
Plastics	120.88	120.88	120.88
Solidified, Inorganic Matrix	0.02	0.02	0.02
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.71E-01
Pu-238	2.75E+00
Pu-239	5.23E-01
Pu-240	8.33E-02
Pu-241	3.56E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W647

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W647

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W648

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W648	**Handling**	CH	**Stream Name**	325 MTRU CH heterogeneous S5900 Mixed RCRA w/ org,met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5900

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	65.41	65.41	65.41
Other Inorganic Materials	87.93	87.93	87.93
Cellulosics	1.82	1.82	1.82
Rubber	0.00	0.00	0.00
Plastics	73.42	73.42	73.42
Solidified, Inorganic Matrix	0.42	0.42	0.42
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.28E-03
Ba-137m	1.02E-01
Cs-137	1.07E-01
Pu-238	4.70E-03
Pu-239	2.86E-04
Pu-240	5.66E-04
Pu-241	1.14E-01
Sr-90	2.15E-01
Y-90	2.15E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W648

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W648

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W649

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W649	**Handling**	CH	**Stream Name**	325 MTRU CH heterogeneous S5900 Mixed RCRA w/ org			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5900

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	175.26	175.26	175.26
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.78	0.78	0.78
Other Inorganic Materials	360.00	360.00	360.00
Cellulosics	2.10	2.10	2.10
Rubber	0.00	0.00	0.00
Plastics	4.74	4.74	4.74
Solidified, Inorganic Matrix	0.01	0.01	0.01
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.19E-04
Ba-137m	4.13E-02
Cs-137	4.37E-02
Pu-238	1.91E-03
Pu-239	1.16E-04
Pu-240	2.30E-04
Pu-241	4.62E-02
Sr-90	8.74E-02
Y-90	8.74E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W649

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated	Stored	Projected	Total
	1.9	0.0	1.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	Projected	Total
	1.9	0.0	1.9

TWBIR ID: RL-W649

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W653

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W653	**Handling**	CH	**Stream Name**	325 MTRU CH Pb/Cd metal X7219 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Lead/Cadmium Metal	**Waste Matrix Code**	X7219

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1030.07	494.54	1570.23
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	1.90	1.90	3.79
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	4.76	3.83	5.69
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.78E-04
Pu-238	6.18E-05
Pu-239	2.30E-03
Pu-240	5.15E-04
Pu-241	7.98E-03
Pu-242	3.10E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W653

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W653

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W654

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W654	**Handling**	CH	**Stream Name**	325 MTRU CH Pb/Cd metal X7219 Mixed RCRA w/ met,Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Lead/Cadmium Metal	**Waste Matrix Code**	X7219

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	127.62	127.62	127.62
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	30.38	30.38	30.38
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	1.19	1.19	1.19
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.09E-03
Pu-238	6.75E-04
Pu-239	2.53E-02
Pu-240	5.67E-03
Pu-241	8.38E-02
Pu-242	3.42E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W654

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W654

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W655

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W655	**Handling**	CH	**Stream Name**	325 TRU CH solidified inorganic S3119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	29.34	0.00	0.00
Other Inorganic Materials	20.90	0.00	0.00
Cellulosics	3.64	0.00	0.00
Rubber	6.36	0.00	0.00
Plastics	20.02	0.00	0.00
Solidified, Inorganic Matrix	213.14	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.56E+01
Pu-238	2.31E+01
Pu-239	1.45E-01
Pu-240	3.44E-01
Pu-241	3.23E+03
Pu-242	1.85E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W655

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated	Stored	1.5	Projected	0.0	Total	1.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	1.5	0.0	0.0	0.0	0.0	1.5

Final Form	Stored	1.5	Projected	0.0	Total	1.5

TWBIR ID: RL-W655

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W656

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W656	**Handling**	CH	**Stream Name**	325 TRU CH solidified inorganic S3150 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3150

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	36.66	0.00	0.00
Other Inorganic Materials	0.58	0.00	0.00
Cellulosics	0.96	0.00	0.00
Rubber	1.73	0.00	0.00
Plastics	30.51	0.00	0.00
Solidified, Inorganic Matrix	792.57	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.16	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.80E+01
Pu-238	4.84E+00
Pu-239	1.59E-01
Pu-240	1.65E-01
Pu-241	7.19E+03
Pu-242	5.08E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W656

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	3.1	0.0	0.0	0.0	0.0	3.1

As-Generated	Stored	3.1	Projected	0.0	Total	3.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	3.1	0.0	0.0	0.0	0.0	3.1

Final Form	Stored	3.1	Projected	0.0	Total	3.1

TWBIR ID: RL-W656

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W657

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W657	**Handling**	CH	**Stream Name**	325 TRU CH uncategorized metal S5119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	251.37	0.00	0.00
Other Inorganic Materials	2.44	0.00	0.00
Cellulosics	5.58	0.00	0.00
Rubber	2.10	0.00	0.00
Plastics	18.45	0.00	0.00
Solidified, Inorganic Matrix	0.27	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	145.63		
Packaging Material, Plastic	14.23		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.41E+01
Pu-238	1.50E+00
Pu-239	1.64E-02
Pu-240	3.30E-02
Pu-241	6.67E+02
Pu-242	3.70E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W657

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	5.4	0.0	0.0	0.0	0.0	5.4
Standard Waste Box	9.4	0.0	0.0	0.0	0.0	9.4

As-Generated	Stored	14.9	Projected	0.0	Total	14.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	5.4	0.0	0.0	0.0	0.0	5.4
Standard Waste Box	9.4	0.0	0.0	0.0	0.0	9.4

Final Form	Stored	14.9	Projected	0.0	Total	14.9

TWBIR ID: RL-W657

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W658

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W658	**Handling**	RH	**Stream Name**	325 MTRU RH inorganic non-metal S5121 Mixed RCRA w/ org			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5121

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	67.42	67.42	67.42
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.58	0.58	0.58
Other Inorganic Materials	759.45	759.45	759.45
Cellulosics	1.51	1.51	1.51
Rubber	0.00	0.00	0.00
Plastics	3.52	3.52	3.52
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.31E-02
Ba-137m	1.83E+00
Cs-137	1.93E+00
Pu-238	8.48E-02
Pu-239	5.17E-03
Pu-240	1.02E-02
Pu-241	2.05E+00
Sr-90	3.87E+00
Y-90	3.87E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W658

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.9	28.5	14.2	0.0	0.0	43.6

As-Generated	Stored	Projected	Total
	0.9	42.7	43.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.9	0.0	0.0	0.0	0.0	43.6

Final Form	Stored	Projected	Total
	0.9	42.7	43.6

TWBIR ID: RL-W658

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W659

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W659	**Handling**	CH	**Stream Name**	325 TRU CH inorganic non-metal S5190 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5190

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	33.65	0.00	0.00
Other Inorganic Materials	24.75	0.00	0.00
Cellulosics	2.40	0.00	0.00
Rubber	6.01	0.00	0.00
Plastics	1.93	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.72E+01
Pu-238	1.21E+01
Pu-239	1.13E-01
Pu-240	1.41E-01
Pu-241	2.69E+03
Pu-242	5.03E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W659

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W659

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W660

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W660	**Handling**	CH	**Stream Name**	325 TRU CH combustible S5319 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5319

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	31.67	0.00	0.00
Other Inorganic Materials	5.14	0.00	0.00
Cellulosics	2.40	0.00	0.00
Rubber	16.76	0.00	0.00
Plastics	157.26	0.00	0.00
Solidified, Inorganic Matrix	7.88	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.97E+01
Pu-238	2.91E+01
Pu-239	4.17E-01
Pu-240	7.49E-01
Pu-241	3.07E+03
Pu-242	1.38E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W660

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1

As-Generated	Stored	2.1	Projected	0.0	Total	2.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1

Final Form	Stored	2.1	Projected	0.0	Total	2.1

TWBIR ID: RL-W660

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W661

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W661	**Handling**	CH	**Stream Name**	325 TRU CH combustible S5330 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5330

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.94	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	109.62	0.00	0.00
Rubber	4.79	0.00	0.00
Plastics	49.51	0.00	0.00
Solidified, Inorganic Matrix	94.22	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.71E+00
Pu-238	3.64E-01
Pu-239	2.01E-03
Pu-240	1.84E-02
Pu-241	3.73E+02
Pu-242	1.64E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W661

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W661

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W662

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W662	**Handling**	CH	**Stream Name**	325 TRU CH combustible S5390 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	37.01	0.00	0.00
Other Inorganic Materials	4.79	0.00	0.00
Cellulosics	52.89	0.00	0.00
Rubber	9.63	0.00	0.00
Plastics	38.47	0.00	0.00
Solidified, Inorganic Matrix	19.73	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.21E-01
Pu-238	2.17E-02
Pu-239	5.14E-04
Pu-240	9.27E-04
Pu-241	7.66E+00
Pu-242	4.49E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W662

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W662

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W663

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W663	**Handling**	RH	**Stream Name**	325 TRU RH heterogeneous S5420 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	353.21	9.28	5877.56
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	245.11	14.62	912.06
Other Inorganic Materials	121.24	2.81	1060.23
Cellulosics	7.77	0.37	134.61
Rubber	8.54	0.28	236.74
Plastics	31.04	0.68	109.66
Solidified, Inorganic Matrix	6.64	0.06	86.57
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.26E+01
Ba-137m	4.76E+00
Cs-137	5.04E+00
Pu-238	6.78E+00
Pu-239	3.80E-01
Pu-240	4.90E-01
Pu-241	2.13E+03
Pu-242	2.44E-04
Sr-90	3.07E+00
U-235	6.61E-06
Y-90	3.07E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W663

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	16.0	0.0	0.0	0.0	0.0	16.0

As-Generated	Stored	16.0	Projected	0.0	Total	16.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	16.0	0.0	0.0	0.0	0.0	16.0

Final Form	Stored	16.0	Projected	0.0	Total	16.0

TWBIR ID: RL-W663

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W664

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W664	**Handling**	RH	**Stream Name**	325 MTRU RH heterogeneous S5420 Mixed RCRA w/ org,met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	143.45	143.45	143.45
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	21.44	21.44	21.44
Other Inorganic Materials	246.67	246.67	246.67
Cellulosics	4.12	4.12	4.12
Rubber	0.10	0.10	0.10
Plastics	16.67	16.67	16.67
Solidified, Inorganic Matrix	0.23	0.23	0.23
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.29E-03
Ba-137m	4.20E-01
Cs-137	4.44E-01
Pu-238	1.95E-02
Pu-239	1.18E-03
Pu-240	2.34E-03
Pu-241	4.70E-01
Sr-90	6.30E-01
Y-90	6.30E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W664

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	2.7	0.0	0.0	0.0	0.0	2.7

As-Generated	Stored	2.7	Projected	0.0	Total	2.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	2.7	0.0	0.0	0.0	0.0	2.7

Final Form	Stored	2.7	Projected	0.0	Total	2.7

TWBIR ID: RL-W664

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W665

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W665	**Handling**	CH	**Stream Name**	325 TRU CH heterogeneous S5440 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	5.94	0.00	0.00
Aluminum-Base Metal/Alloys	0.23	0.00	0.00
Other Metal/Alloys	81.79	0.00	0.00
Other Inorganic Materials	39.32	0.00	0.00
Cellulosics	30.66	0.00	0.00
Rubber	15.15	0.00	0.00
Plastics	60.91	0.00	0.00
Solidified, Inorganic Matrix	59.31	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	1.13	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.75E+01
Pu-238	4.23E+01
Pu-239	1.54E-01
Pu-240	2.07E-01
Pu-241	3.70E+03
Pu-242	1.37E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W665

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	8.5	0.0	0.0	0.0	0.0	8.5

As-Generated	Stored	8.5	Projected	0.0	Total	8.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	8.5	0.0	0.0	0.0	0.0	8.5

Final Form	Stored	8.5	Projected	0.0	Total	8.5

TWBIR ID: RL-W665

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W666

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W666	**Handling**	CH	**Stream Name**	325 TRU CH heterogeneous S5900 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5900

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	78.10	0.00	0.00
Other Inorganic Materials	13.85	0.00	0.00
Cellulosics	15.81	0.00	0.00
Rubber	16.19	0.00	0.00
Plastics	26.25	0.00	0.00
Solidified, Inorganic Matrix	111.47	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.58E+00
Pu-238	6.07E-01
Pu-239	3.77E-02
Pu-240	4.00E-02
Pu-241	3.14E+02
Pu-242	2.75E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W666

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated	Stored	1.5	Projected	0.0	Total	1.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	1.5	0.0	0.0	0.0	0.0	1.5

Final Form	Stored	1.5	Projected	0.0	Total	1.5

TWBIR ID: RL-W666

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the RADIOCHEMISTRY BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W668

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W668	**Handling**	CH	**Stream Name**	325A MTRU CH heterogeneous S5420 Mixed RCRA w/ org,met,Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	14.29	14.29	14.29
Other Inorganic Materials	95.24	95.24	95.24
Cellulosics	66.67	66.67	66.67
Rubber	0.00	0.00	0.00
Plastics	9.52	9.52	9.52
Solidified, Inorganic Matrix	9.52	9.52	9.52
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.88E-02
Ba-137m	1.11E-01
Cs-137	1.17E-01
Pu-238	6.51E-04
Pu-239	3.39E-03
Pu-240	9.70E-04
Pu-241	2.53E-02
Sr-90	1.11E+00
Y-90	1.11E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W668

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	11.3	8.6	0.0	0.0	20.4

As-Generated	Stored	0.2	Projected	20.2	Total	20.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	20.4

Final Form	Stored	0.2	Projected	20.2	Total	20.4

TWBIR ID: RL-W668

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CESIUM RECOVERY FAC.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CESIUM RECOVERY FAC.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W669

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W669	**Handling**	CH	**Stream Name**	325A MTRU CH heterogeneous S5440 Mixed RCRA w/ org,met,Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	17.06	2.38	95.24
Other Inorganic Materials	45.24	19.05	119.05
Cellulosics	44.05	19.05	97.62
Rubber	2.38	2.38	9.52
Plastics	19.05	9.52	28.57
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.18E-01
Ba-137m	9.28E-02
Cs-137	9.81E-02
H-3	1.53E-03
Pu-238	5.72E-01
Pu-239	4.75E-01
Pu-240	1.96E-01
Pu-241	5.00E+00
Pu-242	3.32E-05
Sr-90	1.70E-01
Y-90	1.70E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W669

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.3	0.0	0.0	0.0	0.0	1.3

As-Generated	Stored	Projected	Total
	1.3	0.0	1.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.3	0.0	0.0	0.0	0.0	1.3

Final Form	Stored	Projected	Total
	1.3	0.0	1.3

TWBIR ID: RL-W669

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CESIUM RECOVERY FAC.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CESIUM RECOVERY FAC.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W670

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W670	**Handling**	CH	**Stream Name**	325A MTRU CH heterogeneous S5900 Mixed RCRA w/ org,met,Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5900

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	2.38	2.38	2.38
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	204.76	204.76	204.76
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	97.62	97.62	97.62
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.21E-01
Ba-137m	4.13E-01
Cs-137	4.37E-01
Pu-238	2.44E-03
Pu-239	1.28E-02
Pu-240	3.65E-03
Pu-241	9.51E-02
Sr-90	3.97E+00
Y-90	3.97E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W670

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W670

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CESIUM RECOVERY FAC.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CESIUM RECOVERY FAC.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W671

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W671	**Handling**	CH	**Stream Name**	325A TRU CH uncategorized metal S5119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	149.87	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	53.62	0.00	0.00
Other Inorganic Materials	16.80	0.00	0.00
Cellulosics	47.94	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	8.22	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.72E-01
Pu-238	2.78E-02
Pu-239	5.20E-04
Pu-240	5.44E-04
Pu-241	6.95E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W671

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	9.4	0.0	0.0	0.0	0.0	9.4

As-Generated	Stored	9.4	Projected	0.0	Total	9.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	9.4	0.0	0.0	0.0	0.0	9.4

Final Form	Stored	9.4	Projected	0.0	Total	9.4

TWBIR ID: RL-W671

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CESIUM RECOVERY FAC.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CESIUM RECOVERY FAC.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W672

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W672	**Handling**	CH	**Stream Name**	325A TRU CH combustible S5390 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	27.89	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	152.15	0.00	0.00
Rubber	6.88	0.00	0.00
Plastics	80.32	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.88E+00
Pu-238	1.89E-01
Pu-239	3.54E-03
Pu-240	3.69E-03
Pu-241	4.72E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W672

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	9.4	0.0	0.0	0.0	0.0	9.4

As-Generated	Stored	Projected	Total
	9.4	0.0	9.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	9.4	0.0	0.0	0.0	0.0	9.4

Final Form	Stored	Projected	Total
	9.4	0.0	9.4

TWBIR ID: RL-W672

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CESIUM RECOVERY FAC.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CESIUM RECOVERY FAC.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W673

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W673	**Handling**	CH	**Stream Name**	325A TRU CH heterogeneous S5420 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	19.57	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	168.19	0.00	0.00
Other Inorganic Materials	43.34	0.00	0.00
Cellulosics	48.83	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	24.87	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.21E-01
Ba-137m	7.07E-01
Cs-137	3.74E-01
Pu-238	3.51E-02
Pu-239	6.59E-04
Pu-240	6.86E-04
Pu-241	8.76E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W673

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	49.1	0.0	0.0	0.0	0.0	49.1

As-Generated	Stored	49.1	Projected	0.0	Total	49.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	49.1	0.0	0.0	0.0	0.0	49.1

Final Form	Stored	49.1	Projected	0.0	Total	49.1

TWBIR ID: RL-W673

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CESIUM RECOVERY FAC.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CESIUM RECOVERY FAC.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W674

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W674	**Handling**	CH	**Stream Name**	327 TRU CH Pb/Cd metal S5112 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Lead/Cadmium Metal	**Waste Matrix Code**	S5112

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	10674.50	10009.72	67158.37
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	147.87		
Packaging Material, Plastic	10.74		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.95E-03
Pu-238	2.31E-03
Pu-239	3.35E-01
Pu-240	2.94E-03
Pu-241	9.01E-02
Pu-242	1.08E-06
U-235	5.34E-09
U-238	2.67E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W674

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	4.4	0.4	0.0	0.0	0.0	4.8
Standard Waste Box	0.0	11.4	1.9	0.0	0.0	13.3

As-Generated	Stored	4.4	Projected	13.7	Total	18.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	4.4	0.0	0.0	0.0	0.0	4.8
Standard Waste Box	0.0	0.0	0.0	0.0	0.0	13.3

Final Form	Stored	4.4	Projected	13.7	Total	18.1

TWBIR ID: RL-W674

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the POST IRRADIATION TEST LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the POST IRRADIATION TEST LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W675

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W675	**Handling**	CH	**Stream Name**	327 MTRU CH Pb/Cd metal S5112 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Lead/Cadmium Metal	**Waste Matrix Code**	S5112

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	9985.71	9985.71	9985.71
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.80E+00
Ba-137m	9.12E+02
Cs-137	9.64E+02
Pu-238	2.02E+00
Pu-239	6.23E-01
Pu-240	5.42E-01
Pu-241	3.48E+01
Pu-242	8.97E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W675

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W675

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the POST IRRADIATION TEST LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the POST IRRADIATION TEST LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W676

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W676	**Handling**	CH	**Stream Name**	327 TRU CH inorganic non-metal S5121 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5121

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	2718.68	2192.71	34058.05
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.78E-03
Ba-137m	1.82E-02
Cs-137	1.92E-02
Pu-238	5.79E-04
Pu-239	3.33E-02
Pu-240	4.88E-04
Pu-241	4.92E-02
Pu-242	5.50E-07
Sr-90	7.34E-03
U-235	1.01E-09
U-238	5.05E-07
Y-90	7.34E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W676

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	4.4	0.0	0.0	0.0	0.0	4.4

As-Generated	Stored	4.4	Projected	0.0	Total	4.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	4.4	0.0	0.0	0.0	0.0	4.4

Final Form	Stored	4.4	Projected	0.0	Total	4.4

TWBIR ID: RL-W676

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the POST IRRADIATION TEST LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the POST IRRADIATION TEST LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W677

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W677	**Handling**	CH	**Stream Name**	327 TRU CH heterogeneous S5420 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	7342.38	600.69	65548.11
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	56.57	9.42	987.91
Other Inorganic Materials	4480.78	7.78	33315.22
Cellulosics	12.95	0.47	182.02
Rubber	14.03	0.47	259.03
Plastics	30.08	0.47	526.47
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.89	0.89	23.34
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.21E+01
Ba-137m	1.38E+00
Cs-137	1.46E+00
Pu-238	2.00E+00
Pu-239	1.82E+00
Pu-240	1.59E+00
Pu-241	1.66E+02
Pu-242	1.77E-03
Sr-90	5.58E-01
U-235	2.85E-05
U-238	1.09E-03
Y-90	5.58E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W677

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	3.1	0.0	0.0	0.0	0.0	3.1

As-Generated	Stored	Projected	Total
	3.1	0.0	3.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	3.1	0.0	0.0	0.0	0.0	3.1

Final Form	Stored	Projected	Total
	3.1	0.0	3.1

TWBIR ID: RL-W677

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the POST IRRADIATION TEST LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the POST IRRADIATION TEST LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W678

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W678	**Handling**	CH	**Stream Name**	327 MTRU CH heterogeneous S5420 Mixed RCRA w/ org,met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	891.67	891.67	891.67
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	8.33	8.33	8.33
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	5.71	5.71	5.71
Rubber	0.00	0.00	0.00
Plastics	90.71	90.71	90.71
Solidified, Inorganic Matrix	1.19	1.19	1.19
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.57E-02
Ba-137m	1.27E+00
Cs-137	1.35E+00
Pu-238	1.26E-01
Pu-239	1.23E-01
Pu-240	1.09E-01
Pu-241	9.77E+00
Pu-242	1.22E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W678

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W678

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the POST IRRADIATION TEST LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the POST IRRADIATION TEST LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W679

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W679	**Handling**	CH	**Stream Name**	327 MTRU CH heterogeneous S5420 Mixed State Reg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	269.16	269.16	269.16
Other Inorganic Materials	19.97	19.97	19.97
Cellulosics	18.39	18.39	18.39
Rubber	0.00	0.00	0.00
Plastics	11.99	11.99	11.99
Solidified, Inorganic Matrix	0.53	0.53	0.53
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.97E-01
Ba-137m	3.08E-04
Cs-137	3.25E-04
Pu-238	3.11E-02
Pu-239	2.92E-02
Pu-240	2.60E-02
Pu-241	2.76E+00
Pu-242	2.92E-05
Sr-90	1.24E-04
Y-90	1.24E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W679

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8

As-Generated	Stored	3.8	Projected	0.0	Total	3.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8

Final Form	Stored	3.8	Projected	0.0	Total	3.8

TWBIR ID: RL-W679

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the POST IRRADIATION TEST LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the POST IRRADIATION TEST LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W680

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W680	**Handling**	CH	**Stream Name**	327 TRU CH heterogeneous S5440 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	312.38	312.38	312.38
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	125.71	125.71	125.71
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	210.00	210.00	210.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	10.76	10.76	10.76
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.51E-04
Ba-137m	2.06E-02
Cs-137	2.18E-02
Pu-238	7.93E-04
Pu-239	8.26E-05
Pu-240	1.50E-04
Pu-241	2.15E-02
Pu-242	6.19E-07
Sr-90	1.40E-02
Y-90	1.40E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W680

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: RL-W680

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the POST IRRADIATION TEST LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the POST IRRADIATION TEST LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W681

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W681	**Handling**	CH	**Stream Name**	327 MTRU CH heterogeneous S5440 Mixed RCRA w/ org			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	23.81	23.81	23.81
Rubber	0.00	0.00	0.00
Plastics	33.33	33.33	33.33
Solidified, Inorganic Matrix	0.48	0.48	0.48
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.12E-04
Ba-137m	1.37E-03
Cs-137	1.45E-03
Pu-238	3.21E-04
Pu-239	2.23E-03
Pu-240	1.11E-03
Pu-241	1.78E-02
Pu-242	1.10E-07
Sr-90	6.95E-04
Y-90	6.95E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W681

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W681

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the POST IRRADIATION TEST LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the POST IRRADIATION TEST LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W682

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W682	**Handling**	RH	**Stream Name**	327 TRU RH Pb/Cd metal S5112 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Lead/Cadmium Metal	**Waste Matrix Code**	S5112

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	11902.28	11857.13	11918.99
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.91E+00
Ba-137m	2.07E+03
Cs-137	2.19E+03
Pu-238	5.38E-01
Pu-239	6.00E-01
Pu-240	5.68E-01
Pu-241	1.04E+01
Pu-242	3.83E-04
Sr-90	8.36E+02
U-235	1.09E-06
U-238	5.45E-04
Y-90	8.36E+02

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W682

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.9	7.1	0.0	0.0	0.0	8.0

As-Generated	Stored	0.9	Projected	7.1	Total	8.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.9	0.0	0.0	0.0	0.0	8.0

Final Form	Stored	0.9	Projected	7.1	Total	8.0

TWBIR ID: RL-W682

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the POST IRRADIATION TEST LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the POST IRRADIATION TEST LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W683

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W683	**Handling**	RH	**Stream Name**	327 TRU RH uncategorized metal S5119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	4232.25	4223.03	4237.64
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	9.33	3.93	18.54
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.23E+01
Cs-137	7.53E+03
Pu-238	7.59E+01
Pu-239	1.07E+02
Pu-240	7.32E+01
Pu-241	6.21E+03
Pu-242	7.05E-02
Sm-151	3.31E+02
Sr-90	2.76E+03
U-234	3.81E-03
U-235	2.96E-03
U-236	2.30E-04
U-238	2.46E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W683

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated	Stored	Projected	Total
	0.9	0.0	0.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.9	0.0	0.0	0.0	0.0	0.9

Final Form	Stored	Projected	Total
	0.9	0.0	0.9

TWBIR ID: RL-W683

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the POST IRRADIATION TEST LABORATORY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the POST IRRADIATION TEST LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W685

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W685	**Handling**	CH	**Stream Name**	327C TRU CH heterogeneous S5420 Non-mixed	**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	896.00	896.00	896.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	48.00	48.00	48.00
Other Inorganic Materials	380.00	380.00	380.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	140.47		
Packaging Material, Plastic	22.26		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.47E-03
Pu-238	4.18E-04
Pu-239	1.59E-02
Pu-240	3.57E-03
Pu-241	4.79E-02
Pu-242	2.15E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W685

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.7	27.9	10.1	0.0	0.0	40.7
Standard Waste Box	0.0	20.9	7.6	0.0	0.0	28.5

As-Generated	Stored	2.7	Projected	66.5	Total	69.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.7	0.0	0.0	0.0	0.0	40.7
Standard Waste Box	0.0	0.0	0.0	0.0	0.0	28.5

Final Form	Stored	2.7	Projected	66.5	Total	69.2

TWBIR ID: RL-W685

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Materials Production/Recovery Effluents activities at the POST IRRADIATION TEST LABORATORY C CELL.
Waste Stream Source Description	The waste is generated from Materials Production/Recovery Effluents activities at the POST IRRADIATION TEST LABORATORY C CELL.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W686

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W686	**Handling**	RH	**Stream Name**	327C TRU RH combustible S5319 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5319

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1.89	1.89	1.89
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.38	0.38	0.38
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.38	0.38	0.38
Rubber	0.00	0.00	0.00
Plastics	4.53	4.53	4.53
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.71E-03
Ba-137m	2.22E-01
Cs-137	2.41E-01
Pu-238	5.51E-04
Pu-239	3.85E-03
Pu-240	1.92E-03
Pu-241	6.17E-02
Pu-242	5.64E-08
Sr-90	2.18E-01
Tc-99	5.90E-05
Y-90	2.18E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W686

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated	Stored	Projected	Total
	0.9	0.0	0.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.9	0.0	0.0	0.0	0.0	0.9

Final Form	Stored	Projected	Total
	0.9	0.0	0.9

TWBIR ID: RL-W686

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Materials Production/Recovery Effluents activities at the POST IRRADIATION TEST LABORATORY C CELL.
Waste Stream Source Description	The waste is generated from Materials Production/Recovery Effluents activities at the POST IRRADIATION TEST LABORATORY C CELL.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W687

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W687	**Handling**	RH	**Stream Name**	327C TRU RH heterogeneous S5420 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	7.85	7.85	15.32
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	8.87	2.68	11.49
Other Inorganic Materials	5.38	0.23	16.54
Cellulosics	1.15	1.05	1.24
Rubber	0.00	0.00	0.00
Plastics	2.40	0.92	3.22
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.07E+00
Ba-137m	8.12E+00
Cs-137	8.83E+00
Pu-238	3.31E-01
Pu-239	2.32E+00
Pu-240	1.16E+00
Pu-241	3.60E+01
Pu-242	3.41E-05
Sr-90	7.99E+00
Tc-99	2.18E-03
Y-90	7.99E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W687

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated	Stored	Projected	Total
	0.9	0.0	0.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.9	0.0	0.0	0.0	0.0	0.9

Final Form	Stored	Projected	Total
	0.9	0.0	0.9

TWBIR ID: RL-W687

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Materials Production/Recovery Effluents activities at the POST IRRADIATION TEST LABORATORY C CELL.
Waste Stream Source Description	The waste is generated from Materials Production/Recovery Effluents activities at the POST IRRADIATION TEST LABORATORY C CELL.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W688

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W688	**Handling**	RH	**Stream Name**	327C TRU RH heterogeneous S5440 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	43.79	16.04	96.27
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	21.71	6.42	77.02
Other Inorganic Materials	7.18	1.93	107.39
Cellulosics	12.89	6.42	20.06
Rubber	0.09	0.09	1.60
Plastics	59.40	38.51	72.20
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.17E+00
Ba-137m	1.90E+01
Cs-137	2.07E+01
Pu-238	1.30E+00
Pu-239	9.11E+00
Pu-240	4.53E+00
Pu-241	1.42E+02
Pu-242	1.34E-04
Sr-90	1.87E+01
Tc-99	5.13E-03
Y-90	1.87E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W688

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated	Stored	Projected	Total
	0.9	0.0	0.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.9	0.0	0.0	0.0	0.0	0.9

Final Form	Stored	Projected	Total
	0.9	0.0	0.9

TWBIR ID: RL-W688

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Materials Production/Recovery Effluents activities at the POST IRRADIATION TEST LABORATORY C CELL.
Waste Stream Source Description	The waste is generated from Materials Production/Recovery Effluents activities at the POST IRRADIATION TEST LABORATORY C CELL.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W689

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W689	**Handling**	CH	**Stream Name**	340 MTRU CH heterogeneous S5440 Mixed RCRA w/ org			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	9.52	9.52	9.52
Rubber	7.14	7.14	7.14
Plastics	7.14	7.14	7.14
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	4.76	4.76	4.76
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.36E-02
Ba-137m	1.66E-01
Cs-137	1.75E-01
Pu-238	3.42E-03
Pu-239	1.84E-03
Pu-241	3.13E-02
Sr-90	3.25E-02
Y-90	3.25E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W689

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W689

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the WASTE NEUTRALIZATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the WASTE NEUTRALIZATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W690

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W690	**Handling**	CH	**Stream Name**	340 TRU CH uncategorized metal S5119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	411.92	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	1.22	0.00	0.00
Rubber	1.82	0.00	0.00
Plastics	18.16	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.38E-01
Ba-137m	3.86E-02
Cs-137	4.20E-02
Pu-238	1.27E-01
Pu-239	4.88E+00
Pu-240	1.09E+00
Pu-241	1.43E+01
Pu-242	6.58E-05
Sr-90	3.79E-02
Tc-99	1.05E-05
Y-90	3.79E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W690

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W690

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the WASTE NEUTRALIZATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the WASTE NEUTRALIZATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W691

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W691	**Handling**	CH	**Stream Name**	340 TRU CH combustible S5319 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5319

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	145.40	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.03E-02
Ba-137m	3.86E-02
Cs-137	4.20E-02
Pu-238	5.91E-03
Pu-239	2.26E-01
Pu-240	5.06E-02
Pu-241	6.63E-01
Pu-242	3.05E-06
Sr-90	3.79E-02
Tc-99	1.05E-05
Y-90	3.79E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W691

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W691

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the WASTE NEUTRALIZATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the WASTE NEUTRALIZATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W692

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W692	**Handling**	CH	**Stream Name**	340 TRU CH combustible S5390 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	72.70	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	76.93	0.00	0.00
Rubber	0.60	0.00	0.00
Plastics	36.35	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.02E-01
Ba-137m	3.86E-02
Cs-137	4.20E-02
Pu-238	1.17E-01
Pu-239	4.48E+00
Pu-240	1.00E+00
Pu-241	1.31E+01
Pu-242	6.04E-05
Sr-90	3.79E-02
Tc-99	1.05E-05
Y-90	3.79E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W692

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W692

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the WASTE NEUTRALIZATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the WASTE NEUTRALIZATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W693

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W693	**Handling**	CH	**Stream Name**	340 TRU CH heterogeneous S5420 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	129.24	0.00	0.00
Other Inorganic Materials	255.78	0.00	0.00
Cellulosics	18.17	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	36.34	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.31E-01
Ba-137m	3.86E-02
Cs-137	4.20E-02
Pu-238	9.63E-02
Pu-239	3.69E+00
Pu-240	8.26E-01
Pu-241	1.08E+01
Pu-242	4.97E-05
Sr-90	3.79E-02
Tc-99	1.05E-05
Y-90	3.79E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W693

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	0.6	Projected	0.0	Total	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	0.6	Projected	0.0	Total	0.6

TWBIR ID: RL-W693

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the WASTE NEUTRALIZATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the WASTE NEUTRALIZATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W694

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W694	**Handling**	CH	**Stream Name**	340 TRU CH heterogeneous S5440 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	103.54	0.00	0.00
Other Inorganic Materials	30.55	0.00	0.00
Cellulosics	28.86	0.00	0.00
Rubber	1.66	0.00	0.00
Plastics	72.04	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.47E-01
Ba-137m	3.86E-02
Cs-137	4.20E-02
Pu-238	2.76E-01
Pu-239	1.06E+01
Pu-240	2.36E+00
Pu-241	3.10E+01
Pu-242	1.42E-04
Sr-90	3.79E-02
Tc-99	1.05E-05
Y-90	3.79E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W694

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	2.3	0.0	0.0	0.0	0.0	2.3

As-Generated	Stored	2.3	Projected	0.0	Total	2.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	2.3	0.0	0.0	0.0	0.0	2.3

Final Form	Stored	2.3	Projected	0.0	Total	2.3

TWBIR ID: RL-W694

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the WASTE NEUTRALIZATION FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the WASTE NEUTRALIZATION FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W695

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W695	**Handling**	CH	**Stream Name**	3720 TRU CH heterogeneous S5440 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	65.71	31.51	94.54
Other Inorganic Materials	13.10	13.10	18.91
Cellulosics	53.71	31.51	81.93
Rubber	65.48	65.48	94.54
Plastics	79.81	19.68	113.44
Solidified, Inorganic Matrix	19.10	14.81	25.21
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	2.38	2.38	6.30
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.55E-03
Pu-239	2.84E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W695

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8

As-Generated	Stored	0.8	Projected	0.0	Total	0.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8

Final Form	Stored	0.8	Projected	0.0	Total	0.8

TWBIR ID: RL-W695

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMISTRY AND METAL SCIENCES LABORATORY.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMISTRY AND METAL SCIENCES LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W696

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W696	**Handling**	CH	**Stream Name**	3720 TRU CH heterogeneous S5900 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5900

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	20.60	20.60	20.60
Other Inorganic Materials	7.05	7.05	7.05
Cellulosics	0.00	0.00	0.00
Rubber	15.14	15.14	15.14
Plastics	5.50	5.50	5.50
Solidified, Inorganic Matrix	30.29	30.29	30.29
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.71E-03
Pu-238	1.10E-02
Pu-239	1.39E-02
Pu-240	1.37E-02
Pu-241	4.63E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W696

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W696

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMISTRY AND METAL SCIENCES LABORATORY.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMISTRY AND METAL SCIENCES LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W697

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W697	**Handling**	CH	**Stream Name**	3720 TRU CH solidified inorganic S3119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	48.48	0.00	0.00
Other Inorganic Materials	29.10	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	43.60	0.00	0.00
Solidified, Inorganic Matrix	96.92	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.54E+00
Pu-238	2.34E+01
Pu-239	3.33E-02
Pu-240	4.60E-03
Pu-242	1.38E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W697

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W697

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMISTRY AND METAL SCIENCES LABORATORY.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CHEMISTRY AND METAL SCIENCES LABORATORY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W698

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W698	**Handling**	CH	**Stream Name**	622F TRU CH heterogeneous S5440 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	20.67	20.67	20.67
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	61.14	61.14	61.14
Solidified, Inorganic Matrix	6.48	6.48	6.48
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	4.57	4.57	4.57
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.75E-01
Ba-137m	4.35E-01
Cs-137	4.60E-01
Pu-239	1.57E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W698

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: RL-W698

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the FIELD OFFICE BUILDING.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the FIELD OFFICE BUILDING.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W699

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W699	**Handling**	CH	**Stream Name**	6652H TRU CH soils S4100 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Soils	**Waste Matrix Code**	S4100

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	132.22	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	603.36	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.94E-02
Pu-238	7.78E-04
Pu-239	5.28E-03
Pu-240	6.25E-04
Pu-241	9.83E-01
Pu-242	1.07E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W699

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W699

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the ALE LABORATORY 1.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the ALE LABORATORY 1.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W700

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W700	**Handling**	CH	**Stream Name**	ARGON TRU CH Pb/Cd metal X7219 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	AE	**Final Waste Form**	Lead/Cadmium Metal	**Waste Matrix Code**	X7219

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1120.00	1120.00	1120.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	134.40	134.40	134.40
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	167.20	167.20	167.20
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Non-defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.09E-03
Pu-238	6.75E-04
Pu-239	2.53E-02
Pu-240	5.67E-03
Pu-241	8.38E-02
Pu-242	3.42E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W700

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.3	0.0	0.0	0.0	0.0	1.3

As-Generated	Stored	1.3	Projected	0.0	Total	1.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.3	0.0	0.0	0.0	0.0	1.3

Final Form	Stored	1.3	Projected	0.0	Total	1.3

TWBIR ID: RL-W700

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Argonne National Laboratory - East (IL).
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Argonne National Laboratory - East (IL).
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W701

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W701	**Handling**	RH	**Stream Name**	BATCO MTRU RH Pb/Cd metal X7219 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Lead/Cadmium Metal	**Waste Matrix Code**	X7219

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1377.22	1377.22	1377.22
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	12.30	12.30	12.30
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.22E-08
Pu-238	9.18E-09
Pu-239	3.50E-07
Pu-240	7.84E-08
Pu-241	1.05E-06
Pu-242	4.72E-12

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W701

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated	Stored	Projected	Total
	0.9	0.0	0.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	0.9	0.0	0.0	0.0	0.0	0.9

Final Form	Stored	Projected	Total
	0.9	0.0	0.9

TWBIR ID: RL-W701

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Battelle Columbus (OH).
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Battelle Columbus (OH).
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W702

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W702	**Handling**	CH	**Stream Name**	CUPRC TRU CH soils S4100 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Soils	**Waste Matrix Code**	S4100

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	9.71	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	23.28	0.00	0.00
Solidified, Inorganic Matrix	3.89	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	613.84	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Non-defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	0.00E+00
Cs-137	0.00E+00
Sr-90	0.00E+00
Tc-99	0.00E+00
Y-90	0.00E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W702

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W702

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CEER University Laboratory.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CEER University Laboratory.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W703

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W703	**Handling**	CH	**Stream Name**	CUPRC TRU CH inorganic non-metal S5121 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5121

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	48.48	0.00	0.00
Other Inorganic Materials	690.56	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Non-defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	3.95E-02
Cs-137	4.29E-02
Sr-90	3.89E-02
Tc-99	1.05E-05
Y-90	3.89E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W703

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W703

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CEER University Laboratory.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the CEER University Laboratory.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W704

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W704	**Handling**	CH	**Stream Name**	ESG MTRU CH heterogeneous S5440 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	146.40	134.40	158.40
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	28.80	28.80	57.60
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	55.44	7.20	103.68
Rubber	34.80	34.80	69.60
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	9.60	9.60	19.20
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	95.00	95.00	190.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Non-defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.18E-01
Ba-137m	9.28E-02
Cs-137	9.81E-02
H-3	1.53E-03
Pu-238	5.72E-01
Pu-239	4.75E-01
Pu-240	1.96E-01
Pu-241	5.00E+00
Pu-242	3.32E-05
Sr-90	1.70E-01
Y-90	1.70E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W704

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W704

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Rockwell International, Energy Systems Group (CA).
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Rockwell International, Energy Systems Group (CA).
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W705

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W705	**Handling**	CH	**Stream Name**	ESG TRU CH solidified inorganic S3119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	1.61	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	193.20	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.14E-03
Ba-137m	3.42E-03
Cs-137	3.72E-03
Pu-238	3.54E-04
Pu-239	1.34E-02
Pu-240	3.01E-03
Pu-241	4.13E-02
Pu-242	1.81E-07
Sr-90	3.37E-03
Tc-99	9.12E-07
Y-90	3.37E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W705

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	Projected	Total
	0.6	0.0	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	Projected	Total
	0.6	0.0	0.6

TWBIR ID: RL-W705

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Rockwell International, Energy Systems Group (CA).
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Rockwell International, Energy Systems Group (CA).
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W706

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W706	**Handling**	CH	**Stream Name**	ESG TRU CH soils S4100 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Soils	**Waste Matrix Code**	S4100

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	132.56	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	583.16	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Non-defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	2.84E-01
Cs-137	3.09E-01
Sr-90	2.80E-01
Tc-99	7.57E-05
Y-90	2.80E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W706

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W706

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Rockwell International, Energy Systems Group (CA).
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Rockwell International, Energy Systems Group (CA).
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W707

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W707	**Handling**	CH	**Stream Name**	ESG TRU CH uncategorized metal S5119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	354.87	0.00	0.00
Aluminum-Base Metal/Alloys	0.22	0.00	0.00
Other Metal/Alloys	101.73	0.00	0.00
Other Inorganic Materials	6.14	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	1.62	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.36E-02
Ba-137m	1.67E-04
Cs-137	1.81E-04
Pu-238	4.20E-03
Pu-239	1.59E-01
Pu-240	3.57E-02
Pu-241	4.90E-01
Pu-242	2.15E-06
Sr-90	1.64E-04
Tc-99	4.44E-08
Y-90	1.64E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W707

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated	Stored	1.9	Projected	0.0	Total	1.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	1.9	0.0	0.0	0.0	0.0	1.9

Final Form	Stored	1.9	Projected	0.0	Total	1.9

TWBIR ID: RL-W707

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Rockwell International, Energy Systems Group (CA).
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Rockwell International, Energy Systems Group (CA).
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W708

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W708	**Handling**	CH	**Stream Name**	ESG TRU CH combustible S5319 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5319

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	9.70	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	9.70	0.00	0.00
Rubber	80.77	0.00	0.00
Plastics	24.23	0.00	0.00
Solidified, Inorganic Matrix	12.92	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.16E-03
Ba-137m	7.90E-05
Cs-137	8.59E-05
Pu-238	1.91E-03
Pu-239	7.24E-02
Pu-240	1.62E-02
Pu-241	2.23E-01
Pu-242	9.76E-07
Sr-90	7.77E-05
Tc-99	2.10E-08
Y-90	7.77E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W708

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	0.6	Projected	0.0	Total	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	0.6	Projected	0.0	Total	0.6

TWBIR ID: RL-W708

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Rockwell International, Energy Systems Group (CA).
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Rockwell International, Energy Systems Group (CA).
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W709

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W709	**Handling**	CH	**Stream Name**	ESG TRU CH combustible S5320 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5320

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	29.10	0.00	0.00
Other Metal/Alloys	24.22	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	116.30	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.38E+00
Ba-137m	3.95E-03
Cs-137	4.29E-03
Pu-238	1.97E+00
Pu-239	7.50E+01
Pu-240	1.68E+01
Pu-241	2.31E+02
Pu-242	1.01E-03
Sr-90	3.89E-03
Tc-99	1.05E-06
Y-90	3.89E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W709

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W709

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Rockwell International, Energy Systems Group (CA).
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Rockwell International, Energy Systems Group (CA).
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W710

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W710	**Handling**	CH	**Stream Name**	ESG TRU CH combustible S5330 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5330

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	48.48	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	109.02	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.81E-04
Ba-137m	7.90E-05
Cs-137	8.59E-05
Pu-238	1.18E-04
Pu-239	4.48E-03
Pu-240	1.00E-03
Pu-241	1.38E-02
Pu-242	6.04E-08
Sr-90	7.77E-05
Tc-99	2.10E-08
Y-90	7.77E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W710

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W710

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Rockwell International, Energy Systems Group (CA).
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Rockwell International, Energy Systems Group (CA).
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W711

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W711	**Handling**	CH	**Stream Name**	ESG TRU CH heterogeneous S5420 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	169.61	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	145.39	0.00	0.00
Other Inorganic Materials	61.06	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	5.82	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.19E-01
Ba-137m	3.95E-04
Cs-137	4.29E-04
Pu-238	3.68E-02
Pu-239	1.40E+00
Pu-240	3.13E-01
Pu-241	4.30E+00
Pu-242	1.88E-05
Sr-90	3.89E-04
Tc-99	1.05E-07
Y-90	3.89E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W711

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W711

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Rockwell International, Energy Systems Group (CA).
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Rockwell International, Energy Systems Group (CA).
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W712

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W712	**Handling**	CH	**Stream Name**	ESG TRU CH heterogeneous S5440 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	4.84	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	65.42	0.00	0.00
Rubber	36.33	0.00	0.00
Plastics	14.55	0.00	0.00
Solidified, Inorganic Matrix	9.71	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.54E-01
Ba-137m	9.48E-04
Cs-137	1.03E-03
Pu-238	4.76E-02
Pu-239	1.81E+00
Pu-240	4.05E-01
Pu-241	5.56E+00
Pu-242	2.44E-05
Sr-90	9.33E-04
Tc-99	2.52E-07
Y-90	9.33E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W712

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W712

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Rockwell International, Energy Systems Group (CA).
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Rockwell International, Energy Systems Group (CA).
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W713

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W713	**Handling**	CH	**Stream Name**	ESG TRU CH heterogeneous S5900 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5900

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	7.74	0.00	0.00
Other Metal/Alloys	67.86	0.00	0.00
Other Inorganic Materials	40.69	0.00	0.00
Cellulosics	48.48	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	54.26	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.33E-01
Ba-137m	3.95E-03
Cs-137	4.29E-03
Pu-238	4.11E-02
Pu-239	1.56E+00
Pu-240	3.50E-01
Pu-241	4.81E+00
Pu-242	2.11E-05
Sr-90	3.89E-03
Tc-99	1.05E-06
Y-90	3.89E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W713

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W713

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Rockwell International, Energy Systems Group (CA).
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Rockwell International, Energy Systems Group (CA).
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W714

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W714	**Handling**	CH	**Stream Name**	KAPL TRU CH solidified inorganic S3119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	1.20	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
H-3	7.45E-07
Y-90	1.76E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W714

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W714

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the Knolls Atomic Power Laboratory.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the Knolls Atomic Power Laboratory.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W715

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W715	**Handling**	CH	**Stream Name**	MCGEE TRU CH solidified inorganic S3119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	19.20	19.20	38.40
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	2.40	2.40	4.80
Other Inorganic Materials	48.52	48.52	97.04
Cellulosics	2.88	2.88	5.76
Rubber	0.00	0.00	0.00
Plastics	3.60	1.44	5.76
Solidified, Inorganic Matrix	227.16	161.28	293.04
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	17.28	5.76	28.80
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.20E-03
Pu-238	3.43E-04
Pu-239	1.31E-02
Pu-240	2.93E-03
Pu-241	3.92E-02
Pu-242	1.76E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W715

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W715

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W716

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W716	**Handling**	CH	**Stream Name**	MCGEE TRU CH uncategorized metal S5119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	388.80	369.60	408.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	5.00	5.00	20.00
Other Inorganic Materials	24.70	24.70	98.80
Cellulosics	6.36	6.36	18.72
Rubber	0.90	0.90	2.40
Plastics	6.84	1.44	17.28
Solidified, Inorganic Matrix	18.20	5.60	39.20
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	2.88	1.92	9.60
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.25E-03
Pu-238	1.78E-03
Pu-239	6.80E-02
Pu-240	1.52E-02
Pu-241	2.04E-01
Pu-242	9.18E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W716

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8

As-Generated	Stored	0.8	Projected	0.0	Total	0.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8

Final Form	Stored	0.8	Projected	0.0	Total	0.8

TWBIR ID: RL-W716

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W717

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W717	**Handling**	CH	**Stream Name**	MCGEE MTRU CH uncategorized metal S5119 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	480.00	480.00	480.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Non-defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.25E-03
Pu-238	1.78E-03
Pu-239	6.80E-02
Pu-240	1.52E-02
Pu-241	2.04E-01
Pu-242	9.18E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W717

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: RL-W717

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W718

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W718	**Handling**	CH	**Stream Name**	MCGEE TRU CH combustible S5330 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5330

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	3.84	0.96	6.72
Cellulosics	109.80	102.00	117.60
Rubber	0.00	0.00	0.00
Plastics	4.32	1.44	7.20
Solidified, Inorganic Matrix	2.88	2.88	5.76
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.51E-04
Pu-238	1.57E-04
Pu-239	6.00E-03
Pu-240	1.34E-03
Pu-241	1.80E-02
Pu-242	8.09E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W718

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W718

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W719

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W719	**Handling**	CH	**Stream Name**	MCGEE TRU CH heterogeneous S5420 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	232.80	201.60	264.00
Aluminum-Base Metal/Alloys	5.76	5.76	11.52
Other Metal/Alloys	26.40	19.20	33.60
Other Inorganic Materials	10.08	10.08	20.16
Cellulosics	2.40	1.20	3.60
Rubber	0.00	0.00	0.00
Plastics	17.28	5.76	28.80
Solidified, Inorganic Matrix	28.80	5.76	51.84
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	6.72	5.76	7.68
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.49E-03
Pu-238	7.10E-04
Pu-239	2.71E-02
Pu-240	6.06E-03
Pu-241	8.13E-02
Pu-242	3.65E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W719

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W719

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W720

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W720	**Handling**	CH	**Stream Name**	MCGEE TRU CH heterogeneous S5440 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	79.60	48.00	182.40
Aluminum-Base Metal/Alloys	3.84	1.92	21.12
Other Metal/Alloys	24.87	4.80	76.80
Other Inorganic Materials	19.30	0.96	76.00
Cellulosics	28.50	3.60	91.20
Rubber	5.80	1.20	28.80
Plastics	48.12	7.20	86.40
Solidified, Inorganic Matrix	20.27	5.60	173.60
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	4.32	4.32	15.36
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.57E-03
Pu-238	7.32E-04
Pu-239	2.79E-02
Pu-240	6.25E-03
Pu-241	8.38E-02
Pu-242	3.77E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W720

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.5	0.0	0.0	0.0	0.0	2.5

As-Generated	Stored	2.5	Projected	0.0	Total	2.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.5	0.0	0.0	0.0	0.0	2.5

Final Form	Stored	2.5	Projected	0.0	Total	2.5

TWBIR ID: RL-W720

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W721

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W721	**Handling**	CH	**Stream Name**	MCGEE TRU CH heterogeneous S5900 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5900

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	140.95	14.40	230.40
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	12.65	4.80	57.60
Other Inorganic Materials	27.35	3.84	144.40
Cellulosics	10.34	1.20	39.36
Rubber	1.53	1.20	6.00
Plastics	34.17	5.76	70.56
Solidified, Inorganic Matrix	28.74	11.20	106.40
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	23.21	5.76	55.68
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.90E-03
Pu-238	5.41E-04
Pu-239	2.06E-02
Pu-240	4.62E-03
Pu-241	6.19E-02
Pu-242	2.78E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W721

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.3	0.0	0.0	0.0	0.0	2.3

As-Generated	Stored	2.3	Projected	0.0	Total	2.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.3	0.0	0.0	0.0	0.0	2.3

Final Form	Stored	2.3	Projected	0.0	Total	2.3

TWBIR ID: RL-W721

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W723

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W723	**Handling**	CH	**Stream Name**	MCGEE TRU CH solidified inorganic S3119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	69.46	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	4.85	0.00	0.00
Other Inorganic Materials	12.92	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	1.45	0.00	0.00
Solidified, Inorganic Matrix	272.06	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.32E-02
Ba-137m	1.54E-04
Cs-137	1.68E-04
Pu-238	6.77E-03
Pu-239	2.59E-01
Pu-240	5.80E-02
Pu-241	7.59E-01
Pu-242	3.49E-06
Sr-90	1.52E-04
Tc-99	4.21E-08
Y-90	1.52E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W723

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	0.6	Projected	0.0	Total	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	0.6	Projected	0.0	Total	0.6

TWBIR ID: RL-W723

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W724

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W724	**Handling**	CH	**Stream Name**	MCGEE TRU CH uncategorized metal S5119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	322.87	0.00	0.00
Aluminum-Base Metal/Alloys	3.75	0.00	0.00
Other Metal/Alloys	91.02	0.00	0.00
Other Inorganic Materials	11.56	0.00	0.00
Cellulosics	0.09	0.00	0.00
Rubber	0.76	0.00	0.00
Plastics	9.72	0.00	0.00
Solidified, Inorganic Matrix	0.36	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.90E-02
Ba-137m	2.64E-03
Cs-137	2.87E-03
Pu-238	8.45E-03
Pu-239	3.23E-01
Pu-240	7.25E-02
Pu-241	9.48E-01
Pu-242	4.36E-06
Sr-90	2.59E-03
Tc-99	7.19E-07
Y-90	2.59E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W724

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	3.3	0.0	0.0	0.0	0.0	3.3

As-Generated	Stored	3.3	Projected	0.0	Total	3.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	3.3	0.0	0.0	0.0	0.0	3.3

Final Form	Stored	3.3	Projected	0.0	Total	3.3

TWBIR ID: RL-W724

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W725

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W725	**Handling**	CH	**Stream Name**	MCGEE TRU CH combustible S5319 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5319

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	17.77	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	3.23	0.00	0.00
Other Inorganic Materials	24.30	0.00	0.00
Cellulosics	4.61	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	124.79	0.00	0.00
Solidified, Inorganic Matrix	14.21	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.44E-02
Ba-137m	5.28E-04
Cs-137	5.73E-04
Pu-238	7.10E-03
Pu-239	2.72E-01
Pu-240	6.09E-02
Pu-241	7.97E-01
Pu-242	3.67E-06
Sr-90	5.18E-04
Tc-99	1.44E-07
Y-90	5.18E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W725

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	1.2	0.0	0.0	0.0	0.0	1.2

As-Generated	Stored	1.2	Projected	0.0	Total	1.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	1.2	0.0	0.0	0.0	0.0	1.2

Final Form	Stored	1.2	Projected	0.0	Total	1.2

TWBIR ID: RL-W725

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W726

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W726	**Handling**	CH	**Stream Name**	MCGEE TRU CH filter S5410 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	96.32	0.00	0.00
Aluminum-Base Metal/Alloys	1.45	0.00	0.00
Other Metal/Alloys	32.21	0.00	0.00
Other Inorganic Materials	60.29	0.00	0.00
Cellulosics	4.76	0.00	0.00
Rubber	0.45	0.00	0.00
Plastics	11.26	0.00	0.00
Solidified, Inorganic Matrix	6.78	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.44E-02
Ba-137m	6.37E-04
Cs-137	6.92E-04
Pu-238	4.20E-03
Pu-239	1.61E-01
Pu-240	3.60E-02
Pu-241	4.71E-01
Pu-242	2.17E-06
Sr-90	6.26E-04
Tc-99	1.74E-07
Y-90	6.26E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W726

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	1.7	0.0	0.0	0.0	0.0	1.7

As-Generated	Stored	Projected	Total
	1.7	0.0	1.7

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	1.7	0.0	0.0	0.0	0.0	1.7

Final Form	Stored	Projected	Total
	1.7	0.0	1.7

TWBIR ID: RL-W726

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W727

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W727	**Handling**	CH	**Stream Name**	MCGEE TRU CH heterogeneous S5420 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	182.54	0.00	0.00
Aluminum-Base Metal/Alloys	7.11	0.00	0.00
Other Metal/Alloys	88.42	0.00	0.00
Other Inorganic Materials	65.38	0.00	0.00
Cellulosics	6.14	0.00	0.00
Rubber	1.66	0.00	0.00
Plastics	24.42	0.00	0.00
Solidified, Inorganic Matrix	11.50	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.36E-02
Ba-137m	1.61E-03
Cs-137	1.75E-03
Pu-238	6.87E-03
Pu-239	2.63E-01
Pu-240	5.89E-02
Pu-241	7.71E-01
Pu-242	3.55E-06
Sr-90	1.58E-03
Tc-99	4.38E-07
Y-90	1.58E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W727

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	6.2	0.0	0.0	0.0	0.0	6.2

As-Generated	Stored	6.2	Projected	0.0	Total	6.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	6.2	0.0	0.0	0.0	0.0	6.2

Final Form	Stored	6.2	Projected	0.0	Total	6.2

TWBIR ID: RL-W727

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W728

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W728	**Handling**	CH	**Stream Name**	MCGEE TRU CH heterogeneous S5440 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	98.61	0.00	0.00
Aluminum-Base Metal/Alloys	0.78	0.00	0.00
Other Metal/Alloys	36.84	0.00	0.00
Other Inorganic Materials	25.62	0.00	0.00
Cellulosics	14.31	0.00	0.00
Rubber	2.75	0.00	0.00
Plastics	70.29	0.00	0.00
Solidified, Inorganic Matrix	7.47	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.61E-02
Ba-137m	1.10E-03
Cs-137	1.19E-03
Pu-238	4.70E-03
Pu-239	1.80E-01
Pu-240	4.03E-02
Pu-241	5.27E-01
Pu-242	2.43E-06
Sr-90	1.08E-03
Tc-99	2.99E-07
Y-90	1.08E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W728

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	8.3	0.0	0.0	0.0	0.0	8.3

As-Generated	Stored	8.3	Projected	0.0	Total	8.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	8.3	0.0	0.0	0.0	0.0	8.3

Final Form	Stored	8.3	Projected	0.0	Total	8.3

TWBIR ID: RL-W728

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W729

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W729	**Handling**	CH	**Stream Name**	MCGEE TRU CH heterogeneous S5900 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5900

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	103.50	0.00	0.00
Aluminum-Base Metal/Alloys	4.43	0.00	0.00
Other Metal/Alloys	16.13	0.00	0.00
Other Inorganic Materials	73.70	0.00	0.00
Cellulosics	7.02	0.00	0.00
Rubber	2.34	0.00	0.00
Plastics	33.96	0.00	0.00
Solidified, Inorganic Matrix	35.52	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.13E-02
Ba-137m	4.74E-04
Cs-137	5.16E-04
Pu-238	6.20E-03
Pu-239	2.37E-01
Pu-240	5.31E-02
Pu-241	6.95E-01
Pu-242	3.20E-06
Sr-90	4.66E-04
Tc-99	1.29E-07
Y-90	4.66E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W729

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	2.9	0.0	0.0	0.0	0.0	2.9

As-Generated	Stored	Projected	Total
	2.9	0.0	2.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	2.9	0.0	0.0	0.0	0.0	2.9

Final Form	Stored	Projected	Total
	2.9	0.0	2.9

TWBIR ID: RL-W729

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the Kerr McGee.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W730

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W730	**Handling**	CH	**Stream Name**	PNL TRU CH heterogeneous S5420 Non-mixed	**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	32.03	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	1.94	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	142.47		
Packaging Material, Plastic	19.15		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.31E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W730

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	28.5
Standard Waste Box	0.0	0.0	0.0	0.0	0.0	28.4

As-Generated	Stored	Projected	Total
	0.2	56.6	56.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	28.5
Standard Waste Box	0.0	0.0	0.0	0.0	0.0	28.4

Final Form	Stored	Projected	Total
	0.2	56.6	56.8

TWBIR ID: RL-W730

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from R&D/R&D Laboratory Waste activities at the PNNL.
Waste Stream Source Description	The waste is generated from R&D/R&D Laboratory Waste activities at the PNNL.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W731

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W731	**Handling**	CH	**Stream Name**	Repackaged MTRU CH solidified inorganic S3119 Mixed RCRA w/ org			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	1.67	1.67	1.67
Other Inorganic Materials	3.57	3.57	3.57
Cellulosics	4.52	4.52	4.52
Rubber	0.00	0.00	0.00
Plastics	35.71	35.71	35.71
Solidified, Inorganic Matrix	40.24	40.24	40.24
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.91E-05
Ba-137m	1.74E-01
Cs-137	1.84E-01
Pu-239	2.15E-03
Pu-240	8.85E-06
Sr-90	6.34E+00
U-235	5.80E-06
Y-90	6.34E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W731

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W731

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W732

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W732	**Handling**	CH	**Stream Name**	Repackaged TRU CH inorganic non-metal S5129 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5129

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	245.24	193.81	296.67
Cellulosics	5.71	4.76	6.67
Rubber	2.86	2.86	5.71
Plastics	20.90	19.71	22.10
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.02E-01
Pu-238	1.59E-01
Pu-239	1.97E+00
Pu-240	4.38E-01
Pu-241	1.12E+01
Pu-242	2.56E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W732

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	3.1	10.5	10.5	6.3	30.9

As-Generated	Stored	0.4	Projected	30.4	Total	30.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	30.9

Final Form	Stored	0.4	Projected	30.4	Total	30.9

TWBIR ID: RL-W732

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W733

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W733	**Handling**	CH	**Stream Name**	Repackaged TRU CH combustible S5319 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5319

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	10.21	1.10	21.89
Aluminum-Base Metal/Alloys	1.59	1.59	4.76
Other Metal/Alloys	0.63	0.63	1.90
Other Inorganic Materials	10.46	10.46	17.58
Cellulosics	10.35	4.38	21.41
Rubber	63.05	12.86	93.46
Plastics	36.25	6.86	60.97
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.61E-01
Ba-137m	1.09E-04
Cs-137	1.15E-04
Pu-238	2.13E-01
Pu-239	2.18E+00
Pu-240	5.46E-01
Pu-241	1.25E+01
Pu-242	4.86E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W733

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	Projected	Total
	0.6	0.0	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	Projected	Total
	0.6	0.0	0.6

TWBIR ID: RL-W733

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W734

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W734	**Handling**	CH	**Stream Name**	Repackaged MTRU CH combustible S5319 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5319

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	107.43	1.39	213.37
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.11	0.11	0.23
Other Inorganic Materials	4.55	4.55	9.10
Cellulosics	10.64	9.47	11.82
Rubber	121.74	24.68	218.70
Plastics	66.57	61.26	71.89
Solidified, Inorganic Matrix	12.71	12.71	25.42
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.80E+00
Ba-137m	2.89E-06
Cs-137	3.06E-06
Pu-238	1.06E+00
Pu-239	1.13E+01
Pu-240	2.76E+00
Pu-241	5.58E+01
Pu-242	2.35E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W734

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W734

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W735

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W735	**Handling**	CH	**Stream Name**	Repackaged MTRU CH combustible S5319 Mixed RCRA w/ met,Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5319

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	37.95	37.95	37.95
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	1.00	1.00	1.00
Other Inorganic Materials	0.10	0.10	0.10
Cellulosics	2.58	2.58	2.58
Rubber	359.86	359.86	359.86
Plastics	16.48	16.48	16.48
Solidified, Inorganic Matrix	46.48	46.48	46.48
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.09E+00
Pu-238	1.62E+00
Pu-239	1.77E+01
Pu-240	4.40E+00
Pu-241	8.68E+01
Pu-242	3.80E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W735

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: RL-W735

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W736

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W736	**Handling**	CH	**Stream Name**	Repackaged TRU CH combustible S5330 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5330

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	106.38	106.38	106.38
Rubber	4.62	4.62	4.62
Plastics	17.19	17.19	17.19
Solidified, Inorganic Matrix	4.62	4.62	4.62
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.76E-03
Pu-238	3.46E-06
Pu-239	1.17E-02
Pu-240	3.04E-03
Pu-241	2.65E-02
Pu-242	3.34E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W736

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W736

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W737

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W737	**Handling**	CH	**Stream Name**	Repackaged TRU CH combustible S5390 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	24.98	7.00	43.59
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	17.68	11.47	22.39
Cellulosics	63.15	44.82	100.41
Rubber	17.70	5.14	39.72
Plastics	53.81	48.68	58.68
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.12E-01
Pu-238	3.70E-01
Pu-239	4.19E+00
Pu-240	1.03E+00
Pu-241	1.86E+01
Pu-242	8.67E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W737

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8

As-Generated	Stored	Projected	Total
	0.8	0.0	0.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8

Final Form	Stored	Projected	Total
	0.8	0.0	0.8

TWBIR ID: RL-W737

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W738

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W738	**Handling**	CH	**Stream Name**	Repackaged TRU CH heterogeneous S5420 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	131.99	5.23	389.16
Aluminum-Base Metal/Alloys	7.23	7.23	55.25
Other Metal/Alloys	3.46	2.38	35.72
Other Inorganic Materials	57.84	6.67	161.93
Cellulosics	11.45	2.86	26.72
Rubber	3.51	0.52	11.91
Plastics	38.28	21.15	63.82
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	9.93E-01
Pu-238	4.64E-01
Pu-239	4.85E+00
Pu-240	1.28E+00
Pu-241	2.46E+01
Pu-242	1.12E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W738

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.3	0.0	0.0	0.0	0.0	2.3

As-Generated	Stored	2.3	Projected	0.0	Total	2.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.3	0.0	0.0	0.0	0.0	2.3

Final Form	Stored	2.3	Projected	0.0	Total	2.3

TWBIR ID: RL-W738

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W739

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W739	**Handling**	CH	**Stream Name**	Repackaged MTRU CH heterogeneous S5420 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	381.48	381.48	381.48
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	20.95	20.95	20.95
Cellulosics	3.81	3.81	3.81
Rubber	10.95	10.95	10.95
Plastics	45.43	45.43	45.43
Solidified, Inorganic Matrix	48.57	48.57	48.57
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	8.75E-01
Pu-238	4.50E-01
Pu-239	8.65E+00
Pu-240	1.99E+00
Pu-241	2.46E+01
Pu-242	1.44E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W739

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W739

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W740

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W740	**Handling**	CH	**Stream Name**	Repackaged TRU CH heterogeneous S5440 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	32.71	0.00	236.55
Aluminum-Base Metal/Alloys	10.15	0.48	122.83
Other Metal/Alloys	1.30	0.48	12.58
Other Inorganic Materials	33.58	7.02	93.89
Cellulosics	27.23	2.95	127.06
Rubber	11.66	0.29	55.70
Plastics	62.55	14.18	157.08
Solidified, Inorganic Matrix	0.55	0.55	18.32
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.04	0.04	2.42
Soils	0.02	0.02	1.45
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.90E-01
Ba-137m	4.61E-07
Cs-137	4.88E-07
Pu-238	2.61E-01
Pu-239	3.35E+00
Pu-240	8.76E-01
Pu-241	1.97E+01
Pu-242	9.61E-05
U-235	1.05E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W740

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	13.2	0.0	0.0	0.0	0.0	13.2

As-Generated	Stored	Projected	Total
	13.2	0.0	13.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	13.2	0.0	0.0	0.0	0.0	13.2

Final Form	Stored	Projected	Total
	13.2	0.0	13.2

TWBIR ID: RL-W740

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W741

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W741	**Handling**	CH	**Stream Name**	Repackaged MTRU CH heterogeneous S5440 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	82.24	3.49	207.26
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.57	0.57	1.12
Other Inorganic Materials	38.38	9.35	64.38
Cellulosics	12.99	4.20	28.58
Rubber	30.93	4.76	77.86
Plastics	38.08	26.59	63.23
Solidified, Inorganic Matrix	0.76	0.76	2.24
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.93E+01
Pu-238	7.76E+00
Pu-239	8.21E+00
Pu-240	5.86E+00
Pu-241	1.87E+02
Pu-242	4.61E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W741

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0

As-Generated	Stored	1.0	Projected	0.0	Total	1.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0

Final Form	Stored	1.0	Projected	0.0	Total	1.0

TWBIR ID: RL-W741

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W742

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W742	**Handling**	CH	**Stream Name**	Repackaged MTRU CH heterogeneous S5440 Mixed RCRA w/ met,Hg			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	8.52	8.52	8.52
Other Inorganic Materials	4.48	4.48	4.48
Cellulosics	15.29	15.29	15.29
Rubber	2.24	2.24	2.24
Plastics	78.10	78.10	78.10
Solidified, Inorganic Matrix	0.30	0.30	0.30
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.98E+00
Pu-238	1.17E+00
Pu-239	1.33E+01
Pu-240	3.16E+00
Pu-241	8.02E+01
Pu-242	2.67E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W742

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W742

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W743

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W743	**Handling**	CH	**Stream Name**	Repackaged MTRU CH heterogeneous S5490 Mixed RCRA w/ org			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5490

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	44.73	44.73	44.73
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	26.67	26.67	26.67
Solidified, Inorganic Matrix	9.52	9.52	9.52
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.03E-02
Ba-137m	5.66E-01
Cs-137	5.98E-01
Pu-238	3.17E-04
Pu-239	8.62E-03
Sr-90	1.71E-01
Y-90	1.71E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W743

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W743

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W744

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W744	**Handling**	CH	**Stream Name**	Repackaged TRU CH heterogeneous S5440 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	34.53	0.00	0.00
Cellulosics	39.15	0.00	0.00
Rubber	14.42	0.00	0.00
Plastics	44.67	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	98.88	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-239	4.34E-01
Pu-240	3.71E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W744

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W744

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REPACKAGED WASTE.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W745

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W745	**Handling**	CH	**Stream Name**	Tank Farms MTRU CH solidified inorganic S3119 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	228.57	228.57	228.57
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.14	0.14	0.14
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	1.76	1.76	1.76
Rubber	0.00	0.00	0.00
Plastics	1.33	1.33	1.33
Solidified, Inorganic Matrix	428.57	428.57	428.57
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.86E-03
Pu-238	2.22E-03
Pu-239	8.31E-02
Pu-240	1.86E-02
Pu-241	2.75E-01
Pu-242	1.12E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W745

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W745

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the TANK FARMS.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the TANK FARMS.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W746

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W746	**Handling**	CH	**Stream Name**	Tank Farms MTRU CH heterogeneous S5420 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	9.76	9.76	19.52
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	178.33	94.76	261.90
Other Inorganic Materials	15.24	15.24	30.48
Cellulosics	66.67	14.29	119.05
Rubber	18.10	14.29	21.90
Plastics	9.29	7.14	11.43
Solidified, Inorganic Matrix	17.38	17.38	34.76
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.32E-02
Pu-238	4.27E-03
Pu-239	1.60E-01
Pu-240	3.59E-02
Pu-241	5.30E-01
Pu-242	2.16E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W746

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W746

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the TANK FARMS.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the TANK FARMS.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W747

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W747	**Handling**	CH	**Stream Name**	Tank Farms MTRU CH heterogeneous S5440 Mixed RCRA w/ met			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	62.40	62.40	62.40
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	68.40	68.40	68.40
Rubber	24.00	24.00	24.00
Plastics	14.40	14.40	14.40
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.15E-02
Pu-238	2.31E-02
Pu-239	8.67E-01
Pu-240	1.94E-01
Pu-241	2.87E+00
Pu-242	1.17E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W747

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W747

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the TANK FARMS.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the TANK FARMS.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

TWBIR ID: RL-W748

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W748	**Handling**	CH	**Stream Name**	Tank Farms TRU CH uncategorized metal S5119 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5119

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	272.59	0.00	0.00
Other Inorganic Materials	8.36	0.00	0.00
Cellulosics	3.41	0.00	0.00
Rubber	0.87	0.00	0.00
Plastics	12.16	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.14E+00
Pu-238	1.03E+00
Pu-239	2.28E-02
Pu-240	3.77E-02
Pu-241	3.42E+02
Pu-242	3.49E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W748

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	13.2	0.0	0.0	0.0	0.0	13.2

As-Generated	Stored	Projected	Total
	13.2	0.0	13.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	13.2	0.0	0.0	0.0	0.0	13.2

Final Form	Stored	Projected	Total
	13.2	0.0	13.2

TWBIR ID: RL-W748

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the TANK FARMS.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the TANK FARMS.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W749

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W749	**Handling**	CH	**Stream Name**	Tank Farms TRU CH combustible S5319 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5319

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	4.06	0.00	0.00
Other Inorganic Materials	6.09	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	108.09	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	1.20		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.55E-02
Ba-137m	0.00E+00
Cs-137	0.00E+00
Pu-238	1.10E-02
Pu-239	4.18E-01
Pu-240	9.35E-02
Pu-241	1.28E+00
Pu-242	5.63E-06
Sr-90	0.00E+00
Tc-99	0.00E+00
Y-90	0.00E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W749

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8

As-Generated	Stored	3.8	Projected	0.0	Total	3.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8

Final Form	Stored	3.8	Projected	0.0	Total	3.8

TWBIR ID: RL-W749

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the TANK FARMS.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the TANK FARMS.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W750

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W750	**Handling**	CH	**Stream Name**	Tank Farms TRU CH combustible S5330 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5330

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	107.83	0.00	0.00
Rubber	4.24	0.00	0.00
Plastics	7.27	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	3.83E+02
Pu-238	4.95E+01
Pu-239	1.19E+00
Pu-240	1.96E+00
Pu-241	1.54E+04
Pu-242	1.83E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W750

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4

Final Form	Stored	0.4	Projected	0.0	Total	0.4

TWBIR ID: RL-W750

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the TANK FARMS.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the TANK FARMS.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W751

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W751	**Handling**	CH	**Stream Name**	Tank Farms TRU CH combustible S5390 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Combustible	**Waste Matrix Code**	S5390

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	89.90	0.00	0.00
Rubber	33.93	0.00	0.00
Plastics	4.36	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.92E+02
Pu-238	8.93E+01
Pu-239	2.14E+00
Pu-240	3.55E+00
Pu-241	2.78E+04
Pu-242	3.30E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W751

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: RL-W751

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the TANK FARMS.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the TANK FARMS.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W752

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W752	**Handling**	CH	**Stream Name**	Tank Farms TRU CH heterogeneous S5420 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	7.30	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	304.86	0.00	0.00
Other Inorganic Materials	35.03	0.00	0.00
Cellulosics	4.31	0.00	0.00
Rubber	1.93	0.00	0.00
Plastics	22.85	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	153.03		
Packaging Material, Plastic	2.71		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.35E+00
Pu-238	8.19E-01
Pu-239	1.97E-02
Pu-240	3.25E-02
Pu-241	2.54E+02
Pu-242	3.03E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W752

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Standard Waste Box	9.4	0.0	0.0	0.0	0.0	9.4

As-Generated	Stored	Projected	Total
	9.9	0.0	9.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Standard Waste Box	9.4	0.0	0.0	0.0	0.0	9.4

Final Form	Stored	Projected	Total
	9.9	0.0	9.9

TWBIR ID: RL-W752

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the TANK FARMS.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the TANK FARMS.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RL-W753

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W753	**Handling**	CH	**Stream Name**	Tank Farms TRU CH heterogeneous S5440 Non-mixed			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	RL	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5440

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	8.85	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	161.54	0.00	0.00
Other Inorganic Materials	4.26	0.00	0.00
Cellulosics	25.26	0.00	0.00
Rubber	7.33	0.00	0.00
Plastics	49.55	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	148.88		
Packaging Material, Plastic	9.16		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	N/A
PCBs:	No
Source:	Facility/Equipment Operation and Maintenance Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	6.93E+01
Pu-238	8.95E+00
Pu-239	2.15E-01
Pu-240	3.55E-01
Pu-241	2.78E+03
Pu-242	3.31E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W753

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	2.7	0.0	0.0	0.0	0.0	2.7
Standard Waste Box	9.4	0.0	0.0	0.0	0.0	9.4

As-Generated	Stored	12.2	Projected	0.0	Total	12.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55-Gallon Drum	2.7	0.0	0.0	0.0	0.0	2.7
Standard Waste Box	9.4	0.0	0.0	0.0	0.0	9.4

Final Form	Stored	12.2	Projected	0.0	Total	12.2

TWBIR ID: RL-W753

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the TANK FARMS.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the TANK FARMS.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: RP-W013

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	PFP TRU Solids	**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RP	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	L1220

EPA Codes

As-Generated
D002, D007

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	1.02	1.27	1.67
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	526.00		
Packaging Material, Plastic	26.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.58E+00
Ba-137m	8.80E+01
C-14	8.52E-04
Cs-137	9.30E+01
I-129	1.42E-04
Np-237	1.14E-03
Pu-238	3.42E-04
Pu-239	5.84E+00
Pu-240	1.31E+00
Pu-241	3.42E+01
Pu-242	3.13E-04
Sm-151	0.00E+00
Sr-90	9.59E+01
Tc-99	1.94E-01

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RP-W013

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Tank / Misc Sizes	270.0	0.0	0.0	0.0	0.0	270.0

As-Generated	Stored	Projected	Total
	270.0	0.0	270.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	525.1	0.0	0.0	0.0	0.0	525.1

Final Form	Stored	Projected	Total
	525.1	0.0	525.1

TWBIR ID: RP-W013

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
U-233	6.52E-04
U-234	3.64E-04
U-235	1.53E-05
U-236	8.80E-06
U-238	3.05E-04
Y-90	9.59E+01

Waste Stream Description	Solidified aqueous waste slurry.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	The EPA codes are the same as reported for the same waste stream in the Interim Mixed Waste Inventory Report (IMWIR), April 1993. These EPA codes are based on the identification and characteristics of the generating waste stream. The D002 code, however, is assigned because the waste while in interim storage must be adjusted to a high pH to prevent corrosion of the containment structure. As indicated in the source description, the interim storage tank contains an additional IMWIR waste stream, DST MISCELLANEOUS WASTE. Physically, the PFP TRU solids have settled to the bottom of the tank and are a distinct layer from the liquids, DST MISCELLANEOUS WASTE. Nevertheless, the EPA codes for the PFP TRU solids waste stream may be modified in the future to include the EPA codes associated with DST MISCELLANEOUS WASTE to account for potential mixing of this stream with the PFP TRU solids. The additional EPA codes reported in the IMWIR for this stream are D004, D005, D006, D009, D010, D011, F003, F005.
Management Comments	Waste will be packaged with an absorbent for neutralization
Acceptance Comments	Each 55 gallon (0.21 m3) drum contains 40 to 45 (0.151 to 0.170 m3) of waste plus 10 to 15 gal (0.038 to 0.057 m3) of absorbent.
Final Form Comments	Waste is currently RH; however, it may be, if cost effective, processed resulting in CH final waste form. Total volume of stream is 371 m3 in final waste form and 270 m3 in interim waste form. The difference in the volume between the final and interim for is the addition of absorbent. Projected waste is planned, but the amount has yet to be determined.

TWBIR ID: RP-W016

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	PUREX TRU Cladding Removal Solids			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RP	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	L1220

EPA Codes

As-Generated
D002, D007

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.89	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	526.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.28E+00
Ba-137m	1.80E+01
C-14	1.52E-04
Cs-137	1.91E+01
I-129	1.28E-06
Np-237	9.30E-06
Pu-238	2.51E-03
Pu-239	2.82E-01
Pu-240	8.52E-02
Pu-241	8.95E-02
Pu-242	1.31E-05
Sm-151	6.06E-02
Sr-90	6.28E+00
Tc-99	1.41E-02

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RP-W016

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Tank / Misc Sizes	2030.0	0.0	0.0	0.0	0.0	2030.0

As-Generated	Stored	Projected	Total
	2030.0	0.0	2030.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	3943.6	0.0	0.0	0.0	0.0	3943.6

Final Form	Stored	Projected	Total
	3943.6	0.0	3943.6

TWBIR ID: RP-W016

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
U-233	4.92E-04
U-234	3.66E-03
U-235	1.39E-04
U-236	2.97E-04
U-238	3.21E-02
Y-90	6.28E+00

Waste Stream Description	Solidified aqueous waste slurry
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	The EPA codes are the same as reported for the same waste stream in the Interim Mixed Waste Inventory The EPA codes are the same as reported for the same waste stream in the Interim Mixed Waste Inventory Report, April 1993. These EPA codes are based on the identification and characteristics of the generating waste stream. The D002 code, however, is assigned because the waste while in interim storage must be adjusted to a high pH to prevent corrosion of the containment structure. An additional IMWIR waste stream, DST MISCELLANEOUS WASTE is stored in the tank, which represents the liquid layer in the tank. However, as stated under waste stream source description, the origin of the waste in these tanks is from the separation of cladding waste from PUREX. As such, the EPA codes for this layer are the same as the EPA codes for the PUREX TRU Cladding Removal Solids
Management Comments	Waste will be packaged with an absorbent for neutralization.
Acceptance Comments	Each 55 gallon (0.21 m3) drum contains 40 to 45 (0.151 to 0.170 m3) of waste plus 10 to 15 gal (0.038 to 0.057 m3) of absorbent.
Final Form Comments	Waste is currently RH; however, it may be, if cost effective, processed resulting in CH final waste form. Total volume of stream is 2791 m3 in final waste form and 2030 m3 in interim waste form. The difference in the volume between the final and interim for is the addition of absorbent.

TWBIR ID: RP-W754

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	224 Waste			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RP	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	L1220

EPA Codes

As-Generated
D002, D007

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	1.12	1.08	1.26
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	120.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	5.01E-02
Ba-137m	1.63E-01
C-14	4.69E-06
Cs-137	1.73E-01
I-129	6.14E-08
Np-237	2.02E-07
Pu-238	9.31E-03
Pu-239	1.25E+00
Pu-240	1.03E-01
Pu-241	2.10E-01
Pu-242	4.14E-06
Sm-151	3.52E-03
Sr-90	4.24E+00
Tc-99	2.26E-03

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RP-W754

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Tank / Misc Sizes	1079.0	0.0	0.0	0.0	0.0	1079.0

As-Generated	Stored	Projected	Total
	1079.0	0.0	1079.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1484.1	0.0	0.0	0.0	0.0	1484.1

Final Form	Stored	Projected	Total
	1484.1	0.0	1484.1

TWBIR ID: RP-W754

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
U-233	1.83E-10
U-234	2.38E-04
U-235	9.96E-06
U-236	2.23E-06
U-238	2.26E-04
Y-90	4.24E+00

Waste Stream Description	Solidified aqueous waste slurry.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	The EPA codes are based on the identification and characteristics of the generating waste stream. The D002 code, however, is assigned because the waste while in interim storage must be adjusted to a high pH to prevent corrosion of the containment structure. Additional waste stream characterization is planned that may result in revision to the EPA codes.
Management Comments	Waste will be packaged with an absorbent for neutralization.
Acceptance Comments	Each 55 gallon (0.21 m3) drum contains 40 to 45 (0.151 to 0.170 m3) of waste plus 10 to 15 gal (0.038 to 0.057 m3) of absorbent.
Final Form Comments	Total volume of stream is 1484 m3 in final waste form and 1079 m3 in interim waste form. The difference in the volume between the final and interim for is the addition of absorbent. This stream has the potential to receive an additional 396,000 gallons (1397 m3) of as stored waste. On packaging the waste, the volume would increase to 500,000 gallons (1893 m3) of waste.

TWBIR ID: RP-W755

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Bismuth Phosphate Process TRU Solids	**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	RP	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	L1220

EPA Codes

As-Generated
D002, D007, D009

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	1.13	1.10	1.18
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	120.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.81E-01
Ba-137m	4.45E-01
C-14	3.76E-05
Cs-137	4.71E-01
I-129	1.69E-07
Np-237	1.20E-06
Pu-238	3.38E-03
Pu-239	5.69E-01
Pu-240	4.72E-02
Pu-241	9.53E-02
Pu-242	6.36E-07
Sm-151	2.09E-02
Sr-90	1.89E+01
Tc-99	3.50E-02

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RP-W755

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Tank / Misc Sizes	1780.0	0.0	0.0	0.0	0.0	1780.0

As-Generated	Stored	Projected	Total
	1780.0	0.0	1780.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2448.0	0.0	0.0	0.0	0.0	2448.0

Final Form	Stored	Projected	Total
	2448.0	0.0	2448.0

TWBIR ID: RP-W755

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
U-233	4.47E-09
U-234	5.16E-03
U-235	2.30E-04
U-236	4.15E-05
U-238	5.27E-03
Y-90	1.89E+01

Waste Stream Description	Solidified aqueous waste slurry
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	The EPA codes are based on the identification and characteristics of the generating waste stream. The D002 code, however, is assigned because the waste while in interim storage must be adjusted to a high pH to prevent corrosion of the containment structure. Additional waste stream characterization is planned that may result in revision to the EPA codes.
Management Comments	Waste will be packaged with an absorbent for neutralization
Acceptance Comments	Each 55 gallon (0.21 m3) drum contains 40 to 45 (0.151 to 0.170 m3) of waste plus 10 to 15 gal (0.038 to 0.057 m3) of absorbent.
Final Form Comments	Total volume of stream is 2248 m3 in final waste form and 1780 m3 in interim waste form. The difference in the volume between the final and interim for is the addition of absorbent.

TWBIR ID: SA-T001

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	SA-T001	**Handling**	CH	**Stream Name**	Lovelace ITRI Waste Stream			**Inventory Date**	9/30/2002
Local ID	NA	**Waste Type**	TRU	**Generator Site**	IT	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	100.00	10.00	110.00
Aluminum-Base Metal/Alloys	3.00	1.00	5.00
Other Metal/Alloys	6.00	2.00	10.00
Other Inorganic Materials	15.00	10.00	20.00
Cellulosics	3.00	1.00	5.00
Rubber	5.00	1.00	9.00
Plastics	5.00	2.00	8.00
Solidified, Inorganic Matrix	40.00	20.00	60.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	5.00	1.00	9.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	100.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	1.70E-01
Cm-243	8.90E-02
Cm-244	1.20E+00
Np-237	2.90E-06
Pa-233	1.60E-05
Pu-238	3.90E-02
Pu-239	5.60E-01
Ra-226	9.40E-03
Ra-228	7.30E-04
Th-228	2.80E-03
Th-232	7.30E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : SA-T001

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55-gallon	5.4	0.0	0.0	0.0	0.0	5.4

As-Generated	Stored	5.4	Projected	0.0	Total	5.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	5.4	0.0	0.0	0.0	0.0	5.4

Final Form	Stored	5.4	Projected	0.0	Total	5.4

TWBIR ID: SA-T001

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Waste is in final form.
Waste Stream Source Description	Heterogeneous mixture of metals and combusitble lab trash including solidified waste, stainless steel, brass and aluminum parts, paper, plastics, rubber gloves, PPE, hepa filters and glass. There are no liquids or compressed gasses. All drums were verified through Real Time Radiography, (RTR).
Current Container Comments	N/A
EPA Comments	The entire waste stream was viewed through Real Time Radiography and videotapes and photographs of the waste are on file. In addition, the process knowledge from Lovelace ITRI indicates that contaminants are not present.
Management Comments	This waste stream has been characterized by process knowledge as TRU waste. The waste is not mixed.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: SA-W134

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	SA-W134	**Handling**	CH	**Stream Name**	Transuranic Waste at Hot Cell Facility			**Inventory Date**	9/30/2002
Local ID	NA	**Waste Type**	TRU	**Generator Site**	SA	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5490

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	80.00	10.00	100.00
Aluminum-Base Metal/Alloys	5.00	1.00	10.00
Other Metal/Alloys	10.00	4.00	15.00
Other Inorganic Materials	1.00	1.00	1.00
Cellulosics	2.00	1.00	3.00
Rubber	2.00	1.00	3.00
Plastics	5.00	1.00	10.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

Unassigned

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.50E-01
Am-242m	2.70E-03
Am-243	7.64E-04
Cd-109	1.08E-04
Ce-144	1.69E-03
Cm-242	2.24E-03
Cm-244	1.40E-04
Co-60	5.09E-03
Cs-134	5.58E-03
Cs-137	4.83E+00
Eu-154	1.07E-02
Eu-155	2.00E-04
H-3	1.30E-03
Kr-85	2.41E-02

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : SA-W134

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box /7' x 4' x 4'	12.7	0.0	0.0	0.0	0.0	12.7
Can / Stainless Steel / 2 gallon	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 10 gallon	0.1	0.0	0.0	0.0	0.0	0.1
Drum / 14 gallon	0.1	0.0	0.0	0.0	0.0	0.1
Drum / 20 gallon	0.1	0.0	0.0	0.0	0.0	0.1
Drum / 30 gallon	0.5	0.0	0.0	0.0	0.0	0.5
Drum / 5 gallon	0.1	0.0	0.0	0.0	0.0	0.1
Drum / 55-gallon	3.7	0.0	0.0	0.0	0.0	3.7
Drum / 85 gallon	0.3	0.0	0.0	0.0	0.0	0.3

As-Generated	Stored	Projected	Total
	17.5	0.0	17.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	16.0	0.0	0.0	0.0	0.0	16.0

Final Form	Stored	Projected	Total
	16.0	0.0	16.0

TWBIR ID: SA-W134

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Np-237	7.77E-03
Pa-231	3.11E-04
Pa-233	7.77E-03
Pm-147	1.42E-01
Pu-238	8.76E-02
Pu-239	8.64E-02
Pu-240	2.74E-02
Pu-241	4.72E-01
Ru-106	1.87E-04
Sm-151	1.57E-02
Sr-90	4.58E+00
Tc-99	8.79E-05
Th-228	1.45E-03
Th-234	4.97E-04

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
U-233	1.31E-04
U-234	1.04E-02
U-235	6.78E-04
U-238	4.97E-04

Waste Stream Description	Heterogeneous Debris from SNL/NM Hot Cell Facility D&D project and other miscellaneous waste generators.
Waste Stream Source Description	This waste stream was generated during SNL Hot Cell Facility expirements that including the cutting of fuel rods. There are no liquids or compressed gasses in this waste stream.
Current Container Comments	Assumption: site submittal identified 1 m3 projected in the 98-02 time frame. This 1 m3 was assumed to be stored in 03. Tbrown
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	8 drums of tru waste are estimated to be generated with the FY1996 hot cell decontamination project. This is a one time generation.

TWBIR ID: SA-W134M

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	CH	**Stream Name**	Mixed-TRU Waste from SNL/NM - Contact Handled			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	MTRU	**Generator Site**	SA	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5490

EPA Codes

As-Generated
D005, D006, D011, F003, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	80.00	10.00	100.00
Aluminum-Base Metal/Alloys	5.00	1.00	10.00
Other Metal/Alloys	10.00	4.00	15.00
Other Inorganic Materials	1.00	1.00	1.00
Cellulosics	2.00	1.00	3.00
Rubber	2.00	1.00	3.00
Plastics	5.00	1.00	10.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.50E-01
Am-242m	2.70E-03
Am-243	7.64E-04
Cd-109	1.08E-04
Ce-144	1.69E-03
Cm-242	2.24E-03
Cm-244	1.40E-04
Co-60	5.09E-03
Cs-134	5.58E-03
Cs-137	4.83E+00
Eu-154	1.07E-02
Eu-155	2.00E-04
H-3	1.30E-03
Kr-85	2.41E-02

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : SA-W134M

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55 gallon	2.1	0.0	0.0	0.0	0.0	2.1

As-Generated	Stored	2.1	Projected	0.0	Total	2.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1

Final Form	Stored	2.1	Projected	0.0	Total	2.1

TWBIR ID: SA-W134M

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Np-237	7.77E-03
Pa-231	3.11E-04
Pa-233	7.77E-03
Pm-147	1.42E-01
Pu-238	8.76E-02
Pu-239	8.64E-02
Pu-240	2.74E-02
Pu-241	4.72E-01
Ru-106	1.87E-04
Sm-151	1.57E-02
Sr-90	4.58E+00
Tc-99	8.79E-05
Th-228	1.45E-03
Th-234	4.97E-04

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
U-233	1.31E-04
U-234	1.04E-02
U-235	6.78E-04
U-238	4.97E-04

Waste Stream Description Heterogeneous debris from SNL/NM Hot Cell Facility D&D project and other Miscellaneous waste generators.

Waste Stream Source Description N/A

Current Container Comments Final waste form to be determined. Mixed waste present in 10 containers. All waste charactorized by process knowledge. Final form will be determined after suitable shipping container requirements are identified and waste is repackaged.

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: SA-W135

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	N/A	**Handling**	RH	**Stream Name**	TRU Waste from SNL/NM - Remote Handled			**Inventory Date**	9/30/2002
Local ID	N/A	**Waste Type**	TRU	**Generator Site**	N/A	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5490

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	80.00	10.00	100.00
Aluminum-Base Metal/Alloys	5.00	1.00	10.00
Other Metal/Alloys	10.00	4.00	15.00
Other Inorganic Materials	1.00	1.00	1.00
Cellulosics	2.00	1.00	3.00
Rubber	2.00	1.00	3.00
Plastics	5.00	1.00	10.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.70E+00
Cm-243	9.30E-03
Cm-244	1.10E-01
Co-60	1.40E-02
Cs-134	1.90E+01
Cs-137	1.20E+02
Eu-154	4.20E-01
Np-237	1.90E-04
Pa-233	1.90E-04
Pm-147	5.70E+00
Pu-238	9.60E-01
Pu-239	6.20E-01
Pu-240	9.30E-02
Pu-241	6.90E-03

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : SA-W135

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Cask / Lead lined	3.9	0.0	0.0	0.0	0.0	3.9
Drum / 55 gallon	0.4	0.0	0.0	0.0	0.0	0.4
Lead Pig	0.1	0.0	0.0	0.0	0.0	0.1

As-Generated	Stored	4.4	Projected	0.0	Total	4.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	4.6	0.0	0.0	0.0	0.0	4.6

Final Form	Stored	4.6	Projected	0.0	Total	4.6

TWBIR ID: SA-W135

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

Isotope	Typical Concentration (Ci/m3)
Sr-90	1.20E+02
Th-234	4.00E-05
U-234	1.60E-03
U-235	1.20E-04
U-238	4.00E-05

Waste Stream Description	Heterogeneous debris from SNL/NM Hot Cell Facility D&D Project and other miscellaneous waste generators.
Waste Stream Source Description	N/A
Current Container Comments	Internal volume of this cask is assumed to be .39 m3 by TB @ LANLCBD for data entry purposes to capture this volume. This is not in the source data.
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	Container assumption affirmed by Mike Spoerner @ SNL.

TWBIR ID: T001-221F-HET

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	SR-W074	**Handling**	CH	**Stream Name**	CH TRU - Heterogeneous debris from 221F			**Inventory Date**	9/30/2002
Local ID	SR-T001	**Waste Type**	TRU	**Generator Site**	SR	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	101.00	0.00	202.00
Aluminum-Base Metal/Alloys	0.01	0.00	0.10
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	23.00	0.00	46.00
Cellulosics	17.00	0.00	34.00
Rubber	0.04	0.00	0.40
Plastics	16.00	0.00	32.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	153.57		
Packaging Material, Plastic	1.02		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

SR225A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.77E-01
Pu-238	7.71E+01
Pu-239	1.28E+01
Pu-240	3.17E-01
Pu-241	1.54E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : T001-221F-HET

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / 12ft W x 18ft L x 7ft H	807.5	0.0	0.0	0.0	0.0	807.5
Box / Misc.	14.0	0.0	0.0	0.0	0.0	14.0
Drum / 55 gallon	140.2	42.8	64.1	0.0	0.0	247.1
Polybox	150.5	0.0	0.0	0.0	0.0	150.5

As-Generated	Stored	1112.2	Projected	106.9	Total	1219.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	140.2	0.0	0.0	0.0	0.0	247.1
5'x5'x8' Box	1103.7	0.0	0.0	0.0	0.0	1103.7
Standard Waste Box	0.0	0.0	0.0	0.0	0.0	372.3

Final Form	Stored	1243.9	Projected	479.2	Total	1723.1

TWBIR ID: T001-221F-HET

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is defense related, contact handled TRU waste and is composed of Job Control waste, sludges and resins, HEPA filters and large, metal equipment
Waste Stream Source Description	This stream was produced in various onsite Plutonium production facilities as well as analytical and R&D laboratories.
Current Container Comments	Radionuclide concentrations may vary from 3.2.6.
EPA Comments	N/A
Management Comments	The current plan is to characterize the waste followed by shipment and disposal at WIPP. HEPA filters packaged in polyboxes will be packaged into SWB's. All miscellaneous box waste and waste currently stored in 12'x18x'7' steel boxes will be shipped utilizing 5'x5'x8' or smaller containers that meet TRUPACT III and WIPP disposal limits. Regulatory relief is expected to allow shipment of the higher activity drummed waste without volume expansion. Only physical dimension limitations have been assumed for TRUPACT III. For drums that assay at < 100nCi/g, overpacking with > 100nCi/g, drums into TDOPs is planned; however, TDOPs are not identified in the final waste form container description.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: T001-221H-HET

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	SR-W074	**Handling**	CH	**Stream Name**	CH TRU - Heterogeneous debris from 221H			**Inventory Date**	9/30/2002
Local ID	SR-T001	**Waste Type**	TRU	**Generator Site**	SR	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	110.00	0.00	220.00
Aluminum-Base Metal/Alloys	0.01	0.00	0.10
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	27.00	0.00	54.00
Cellulosics	22.00	0.00	44.00
Rubber	0.03	0.00	0.30
Plastics	8.00	0.00	16.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	153.62		
Packaging Material, Plastic	0.66		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

SR225A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.77E-01
Pu-238	7.71E+01
Pu-239	1.28E+01
Pu-240	3.17E-01
Pu-241	1.54E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : T001-221H-HET

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
	0.0	0.0	0.0	0.0	0.0	0.0
Box / 12ft W x 18ft L x 7ft H	2295.0	0.0	0.0	0.0	0.0	2295.0
Drum / 55-gallon	397.1	38.5	46.2	0.0	0.0	474.0
Polybox	82.5	0.0	0.0	0.0	0.0	82.5

As-Generated	Stored	2774.6	Projected	77.0	Total	2851.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	397.1	0.0	0.0	0.0	0.0	474.0
5'x5'x8' Box	3079.0	0.0	0.0	0.0	0.0	3079.0
Standard Waste Box	0.0	0.0	0.0	0.0	0.0	204.1

Final Form	Stored	3476.1	Projected	281.1	Total	3757.2

TWBIR ID: T001-221H-HET

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is defense related, contact handled TRU waste and is composed of Job Control waste, sludges and resins, HEPA filters and large, metal equipment
Waste Stream Source Description	This stream was produced in various onsite Plutonium production facilities as well as analytical and R&D laboratories.
Current Container Comments	Radionuclide concentrations may vary from 3.2.6.
EPA Comments	N/A
Management Comments	The current plan is to characterize the waste followed by shipment and disposal at WIPP. HEPA filters packaged in polyboxes will be packaged into SWB's. All miscellaneous box waste and waste currently stored in 12'x18x'7' steel boxes will be shipped utilizing 5'x5'x8' or smaller containers that meet TRUPACT III and WIPP disposal limits. Regulatory relief is expected to allow shipment of the higher activity drummed waste without volume expansion. Only physical dimension limitations have been assumed for TRUPACT III. For drums that assay at < 100nCi/g, overpacking with > 100nCi/g, drums into TDOPs is planned; however, TDOPs are not identified in the final waste form container description.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: T001-235F-HET

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	SR-W074	**Handling**	CH	**Stream Name**	CH TRU Heterogeneous debris from 235F			**Inventory Date**	9/30/2002
Local ID	SR-T001	**Waste Type**	TRU	**Generator Site**	SR	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	84.00	0.00	168.00
Aluminum-Base Metal/Alloys	0.01	0.00	0.10
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	15.00	0.00	30.00
Cellulosics	9.00	0.00	18.00
Rubber	0.05	0.00	0.50
Plastics	27.00	0.00	54.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	153.30		
Packaging Material, Plastic	1.75		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

SR225A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.77E-01
Pu-238	7.71E+01
Pu-239	1.28E+01
Pu-240	3.17E-01
Pu-241	1.54E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : T001-235F-HET

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / Misc.	42.0	0.0	0.0	0.0	0.0	42.0
Drum / 55-gallon	12.1	5.2	7.9	0.0	0.0	25.2
Polybox	25.0	0.0	0.0	0.0	0.0	25.0

As-Generated	Stored	79.1	Projected	13.1	Total	92.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	12.1	0.0	0.0	0.0	0.0	25.2
5'x5'x8' Box	50.9	0.0	0.0	0.0	0.0	50.9
Standard Waste Box	0.0	0.0	0.0	0.0	0.0	68.0

Final Form	Stored	63.0	Projected	81.1	Total	144.1

TWBIR ID: T001-235F-HET

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is defense related, contact handled TRU waste and is composed of Job Control waste, sludges and resins, HEPA filters and large, metal equipment
Waste Stream Source Description	This stream was produced in various onsite Plutonium production facilities as well as analytical and R&D laboratories.
Current Container Comments	Radionuclide concentrations may vary from 3.2.6
EPA Comments	N/A
Management Comments	The current plan is to characterize the waste followed by shipment and disposal at WIPP. HEPA filters packaged in polyboxes will be packaged into SWB's. All miscellaneous box waste and waste currently stored in 12'x18x'7' steel boxes will be shipped utilizing 5'x5'x8' or smaller containers that meet TRUPACT III and WIPP disposal limits. Regulatory relief is expected to allow shipment of the higher activity drummed waste without volume expansion. Only physical dimension limitations have been assumed for TRUPACT III. For drums that assay at < 100nCi/g, overpacking with > 100nCi/g, drums into TDOPs is planned; however, TDOPs are not identified in the final waste form container description.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: T001-772F-HET

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	SR-W074	**Handling**	CH	**Stream Name**	CH TRU - Heterogeneous debris from 772F			**Inventory Date**	9/30/2002
Local ID	SR-T001	**Waste Type**	TRU	**Generator Site**	SR	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	4.60	0.00	10.00
Aluminum-Base Metal/Alloys	0.10	0.00	1.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	1.60	0.00	16.00
Cellulosics	0.00	0.00	0.00
Rubber	0.30	0.00	3.00
Plastics	15.20	0.00	152.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.26		
Packaging Material, Plastic	36.59		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

SR225A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.77E-01
Pu-238	7.71E+01
Pu-239	1.28E+01
Pu-240	3.17E-01
Pu-241	1.54E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : T001-772F-HET

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / Misc.	8.4	0.0	0.0	0.0	0.0	8.4
Drum / 55-gallon	93.2	181.6	454.0	272.4	0.0	1001.1

As-Generated	Stored	Projected	Total
	101.6	907.9	1009.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	93.2	0.0	0.0	0.0	0.0	1001.1
5'x5'x8' Box	11.3	0.0	0.0	0.0	0.0	11.3

Final Form	Stored	Projected	Total
	104.5	907.9	1012.4

TWBIR ID: T001-772F-HET

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is defense related, contact handled TRU waste and is composed of Job Control waste, sludges and resins, HEPA filters and large, metal equipment
Waste Stream Source Description	This stream was produced in various onsite Plutonium production facilities as well as analytical and R&D laboratories.
Current Container Comments	Radionuclide concentrations may vary from 3.2.6.
EPA Comments	N/A
Management Comments	The current plan is to characterize the waste followed by shipment and disposal at WIPP. HEPA filters packaged in polyboxes will be packaged into SWB's. All miscellaneous box waste and waste currently stored in 12'x18x'7' steel boxes will be shipped utilizing 5'x5'x8' or smaller containers that meet TRUPACT III and WIPP disposal limits. Regulatory relief is expected to allow shipment of the higher activity drummed waste without volume expansion. Only physical dimension limitations have been assumed for TRUPACT III. For drums that assay at < 100nCi/g, overpacking with > 100nCi/g, drums into TDOPs is planned; however, TDOPs are not identified in the final waste form container description.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: T001-773A-CLAS

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	SR-W074	**Handling**	CH	**Stream Name**	CH TRU - Classified waste from 773A			**Inventory Date**	9/30/2002
Local ID	SR-T001	**Waste Type**	TRU	**Generator Site**	SR	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	129.00	0.00	258.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	32.10	0.00	65.00
Cellulosics	26.70	0.00	54.00
Rubber	0.00	0.00	0.00
Plastics	5.30	0.00	11.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

OT YET ASSIGNE

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.77E-01
Pu-238	7.71E+01
Pu-239	1.28E+01
Pu-240	3.17E-01
Pu-241	1.54E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : T001-773A-CLAS

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / 162 ft3	23.0	0.0	0.0	0.0	0.0	23.0

As-Generated	Stored	23.0	Projected	0.0	Total	23.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
5'x5'x8' Box	22.6	0.0	0.0	0.0	0.0	22.6

Final Form	Stored	22.6	Projected	0.0	Total	22.6

TWBIR ID: T001-773A-CLAS

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is defense related, contact handled TRU waste and is composed of Job Control waste, sludges and resins, HEPA filters and large, metal equipment
Waste Stream Source Description	This stream was produced in various onsite Plutonium production facilities as well as analytical and R&D laboratories.
Current Container Comments	Classified waste
EPA Comments	N/A
Management Comments	The current plan is to characterize the waste followed by shipment and disposal at WIPP. HEPA filters packaged in polyboxes will be packaged into SWB's. All miscellaneous box waste and waste currently stored in 12'x18x'7' steel boxes will be shipped utilizing 5'x5'x8' or smaller containers that meet TRUPACT III and WIPP disposal limits. Regulatory relief is expected to allow shipment of the higher activity drummed waste without volume expansion. Only physical dimension limitations have been assumed for TRUPACT III. For drums that assay at < 100nCi/g, overpacking with > 100nCi/g, drums into TDOPs is planned; however, TDOPs are not identified in the final waste form container description.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: T001-773A-HET

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	SR-W074	**Handling**	CH	**Stream Name**	CH TRU - Heterogeneous debris from 773A	**Inventory Date**	9/30/2002
Local ID	SR-T001	**Waste Type**	TRU	**Generator Site**	SR	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	23.00	0.00	46.00
Aluminum-Base Metal/Alloys	0.06	0.00	0.60
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	5.20	0.00	10.40
Cellulosics	5.00	0.00	10.00
Rubber	0.20	0.00	2.00
Plastics	16.00	0.00	32.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	139.29		
Packaging Material, Plastic	25.42		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

SR225A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.77E-01
Pu-238	7.71E+01
Pu-239	1.28E+01
Pu-240	3.17E-01
Pu-241	1.54E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : T001-773A-HET

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / Misc.	19.6	0.0	0.0	0.0	0.0	19.6
Drum / 55-gallon	42.0	16.9	42.2	25.3	0.0	126.7
Polybox	4.0	0.0	0.0	0.0	0.0	4.0

As-Generated — Stored: 65.6 | Projected: 84.7 | Total: 150.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	42.0	0.0	0.0	0.0	0.0	126.7
5'x5'x8' Box	17.0	0.0	0.0	0.0	0.0	17.0
Standard Waste Box	0.0	0.0	0.0	0.0	0.0	11.3

Final Form — Stored: 59.0 | Projected: 96.0 | Total: 155.0

TWBIR ID: T001-773A-HET

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is defense related, contact handled TRU waste and is composed of Job Control waste, sludges and resins, HEPA filters and large, metal equipment
Waste Stream Source Description	This stream was produced in various onsite Plutonium production facilities as well as analytical and R&D laboratories.
Current Container Comments	Radionuclide concentration may vary from 3.2.6.
EPA Comments	N/A
Management Comments	The current plan is to characterize the waste followed by shipment and disposal at WIPP. HEPA filters packaged in polyboxes will be packaged into SWB's. All miscellaneous box waste and waste currently stored in 12'x18x'7' steel boxes will be shipped utilizing 5'x5'x8' or smaller containers that meet TRUPACT III and WIPP disposal limits. Regulatory relief is expected to allow shipment of the higher activity drummed waste without volume expansion. Only physical dimension limitations have been assumed for TRUPACT III. For drums that assay at < 100nCi/g, overpacking with > 100nCi/g, drums into TDOPs is planned; however, TDOPs are not identified in the final waste form container description.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: T003-773A-HET

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	SR-W076	**Handling**	RH	**Stream Name**	RH TRU Heterogeneous Debris from 773A			**Inventory Date**	9/30/2002
Local ID	SR-T003	**Waste Type**	TRU	**Generator Site**	SR	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	23.00	0.00	46.00
Aluminum-Base Metal/Alloys	0.06	0.00	0.60
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	5.20	0.00	10.40
Cellulosics	5.00	0.00	10.00
Rubber	0.20	0.00	2.00
Plastics	16.00	0.00	32.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	154.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

SR225A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Ba-137m	3.10E+00
Cm-247	2.43E+00
Cs-137	3.28E+00
Pm-147	8.13E-01
Pu-238	1.69E-01
Sr-90	3.10E+00
Y-90	3.28E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : T003-773A-HET

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Cask / 40"x41"x53"	1.4	0.0	0.0	0.0	0.0	17.0

As-Generated	Stored	Projected	Total
	1.4	15.6	17.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
5'x5'x8' Box	0.0	0.0	0.0	0.0	0.0	22.6

Final Form	Stored	Projected	Total
	0.0	22.6	22.6

TWBIR ID: T003-773A-HET

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consists of miscellaneous job control waste such as laboratory supplies used in research programs in the shielded cells, e.g. glassware, paper wipes, stainless steel samples vials, poly bottles, pipettes and small lab equipment (stirrers, heaters). In addition to the job control waste, this stream contains shavings from the cuttings of a Mark 16 fuel element. Presently, this waste stream is stored as RH, but is reported as CH because after processing this stream will be CH.
Waste Stream Source Description	This stream was generated as a result of experiments and activities at SRTC in the 773-A Shielded Cells Facility (E-wing). Work was performed with samples of low activity waste from tanks 42 and 51, high activity waste from 11 and 15, salt from tank 41 and 13, process waste from tank 17, in addition to other isotopes stored in the cells,
Current Container Comments	This box is placed in a cask for storage.
EPA Comments	N/A
Management Comments	This waste will be repackaged for shipment to WIPP.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: W006-773A-VIT

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	SR-W006	**Handling**	CH	**Stream Name**	Contact handled TRU/Liquids from 773A			**Inventory Date**	9/30/2002
Local ID	SR-W006	**Waste Type**	MTRU	**Generator Site**	SR	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	L2000

EPA Codes

As-Generated
D001

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1719.00	1559.00	2375.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	467.00	261.00	516.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Analytical Laboratory Waste

TRUCON Codes

none at this time

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	4.51E-03
Pu-239	8.60E+02

Waste Volume Detail (Cubic meters) for TWBIR ID : W006-773A-VIT

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Stainless Steel can / 1 gal	0.1	0.0	0.0	0.0	0.0	0.1

As-Generated	Stored	Projected	Total
	0.1	0.0	0.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	Projected	Total
	0.6	0.0	0.6

TWBIR ID: W006-773A-VIT

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The stream is a xylene-based chelating agent. It is a homogeneous, flammable liquid containing hazardous constituents. Total activity is 100 nCi/g. The waste is contact handled. TTA stands for Thenoyl Trifluoroacetone.
Waste Stream Source Description	This stream is generated from plutonium extraction analytical procedures at the Savannah River Technology Center. It consists of a homogenous, xylene based, liquid chelating agent.
Current Container Comments	"SAF-T-CAN" Brand, 1 gallon capacity
EPA Comments	This waste is ignitable only - no contaminant concentration values are used, other than xylenes > 99%. This waste will need treatment before it is acceptable at WIPP.
Management Comments	The waste is stored in a stainless steel can, (Safe-T-Can brand for storage of flammable liquids), in a Satellite Accumulation Area (SAA), which is located in a laboratory hood in Lab B-138 of Building 773-A of SRTC. The preferred option in the PSTP is to assay and characterize the waste stream at the TRU Waste Certification/Characterization Facility (TWCCF), followed by preparation for shipment and disposal at WIPP. Because of the small volume of the stream allternative treatment options are being investigated. One alternative is to handle the waste as a 90 day generator, remove the TRU portion of the stream, and treat the ignitable characteristic.
Acceptance Comments	GENOPERATI: Chemical Analysis and experimentation - laboratory conducts experiments on low- and high-level radioactive materials, in addition to non-radioactive testing. RECLASS_CO: NA. CATION: HNO3 = 10E-3 (Molar Based on solubility after contact with 1Molar HNO3) per lab procedure.
Final Form Comments	N/A

TWBIR ID: W026-221F-HET

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	SR-W026	**Handling**	CH	**Stream Name**	CH Mixed TRU/Thirds Heterogeneous debris from 221F	**Inventory Date**	9/30/2002
Local ID	SR-W026	**Waste Type**	MTRU	**Generator Site**	SR	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
D006, D007, D008, D009

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	112.00	0.00	224.00
Aluminum-Base Metal/Alloys	0.01	0.00	0.10
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	28.00	0.00	56.00
Cellulosics	24.00	0.00	48.00
Rubber	0.03	0.00	0.30
Plastics	6.60	0.00	13.20
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	153.61		
Packaging Material, Plastic	0.62		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	Unknown
Source:	Other/Multiple Sources

TRUCON Codes

SR225A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.77E-01
Pu-238	7.71E+01
Pu-239	1.28E+01
Pu-240	3.17E-01
Pu-241	1.54E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : W026-221F-HET

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / 12' x 18' x 7'	513.8	0.0	0.0	0.0	0.0	513.8
Drum / 55-gallon	101.1	0.0	0.0	0.0	0.0	101.1

As-Generated	Stored	Projected	Total
	614.9	0.0	614.9

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	101.1	0.0	0.0	0.0	0.0	101.1
5'x5'x8' Box	684.9	0.0	0.0	0.0	0.0	684.9

Final Form	Stored	Projected	Total
	785.9	0.0	785.9

TWBIR ID: W026-221F-HET

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	200 Areas (F and H Separations Facilities). This waste is primarily solids consisting of mainly booties, lab coats, floor sweepings, rags, labware, and other job control wastes. Small Hepas, liquids, sludges and resins may also be found in this stream. The waste is generated primarily through separation activities in the course of plutonium production, includes small amounts of TRU waste from on site laboratories.
Waste Stream Source Description	This waste is generated primarily through separations activities for Plutonium production. A small fraction comes from research activities.
Current Container Comments	None
EPA Comments	N/A
Management Comments	The current plan is to characterize the waste follower by shipment and disposal at WIPP. HEPA filters packaged in polyboxes will be packaged into Standard Waste Boxes. All miscellaneous box waste and waste currently stored in 12'x18'x7' steel boxes will be shipped utilizing 5'x5'x8' or smaller containers that meet TRUPACT III and WIPP disposal limits. Regulatory relief is expected to allow shipment of the higher activity drummed waste without volume expansion. Only physical dimension limitations have been assumed for TRUPACT III. For drums that assay at <100nCi/g, overpacking with >100nCi/g drums into TDOPs is planned; however, TDOPs are not identified in the final waste form container description.
Acceptance Comments	Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
Final Form Comments	N/A

TWBIR ID: W026-221H-HET

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	SR-W026	**Handling**	CH	**Stream Name**	CH Mixed TRU/Thirds Heterogeneous debris from 221H			**Inventory Date**	9/30/2002
Local ID	SR-W026	**Waste Type**	MTRU	**Generator Site**	SR	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
D007, D008, F003

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	101.00	0.00	140.00
Aluminum-Base Metal/Alloys	0.02	0.00	0.20
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	25.00	0.00	50.00
Cellulosics	21.00	0.00	42.00
Rubber	0.06	0.00	0.60
Plastics	7.50	0.00	15.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	152.90		
Packaging Material, Plastic	1.80		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	Unknown
Source:	Other/Multiple Sources

TRUCON Codes

SR225A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.77E-01
Pu-238	7.71E+01
Pu-239	1.28E+01
Pu-240	3.17E-01
Pu-241	1.54E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : W026-221H-HET

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / 12' x 18' x 7'	342.5	0.0	0.0	0.0	0.0	342.5
Drum / 55-gallon	129.2	0.0	0.0	0.0	0.0	129.2

As-Generated	Stored	Projected	Total
	471.6	0.0	471.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	129.2	0.0	0.0	0.0	0.0	129.2
5'x5'x8' Box	458.5	0.0	0.0	0.0	0.0	458.5

Final Form	Stored	Projected	Total
	587.6	0.0	587.6

TWBIR ID: W026-221H-HET

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	200 Areas (F and H Separations Facilities). This waste is primarily solids consisting of mainly booties, lab coats, floor sweepings, rags, labware, and other job control wastes. Small Hepas, liquids, sludges and resins may also be found in this stream. The waste is generated primarily through separation activities in the course of plutonium production, includes small amounts of TRU waste from on site laboratories.
Waste Stream Source Description	This waste is generated primarily through separations activities for Plutonium production. A small fraction comes from research activities.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	The current plan is to characterize the waste followed by shipment and disposal at WIPP. HEPA filters packaged in polyboxes will be packaged into SWB's. All miscellaneous box waste and waste currently stored in 12'x18x'7' steel boxes will be shipped utilizing 5'x5'x8' or smaller containers that meet TRUPACT III and WIPP disposal limits. Regulatory relief is expected to allow shipment of the higher activity drummed waste without volume expansion. Only physical dimension limitations have been assumed for TRUPACT III. For drums that assay at < 100nCi/g, overpacking with > 100nCi/g, drums into TDOPs is planned; however, TDOPs are not identified in the final waste form container description.
Acceptance Comments	Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
Final Form Comments	N/A

TWBIR ID: W026-235F-HET

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	SR-W026	**Handling**	CH	**Stream Name**	CH Mixed TRU/Thirds Heterogeneous debris from 235F			**Inventory Date**	9/30/2002
Local ID	SR-W026	**Waste Type**	MTRU	**Generator Site**	SR	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
D001, D003, D004, D006, D007, D008, D009, D011, D018, D019, D022, D023, D024, D025, D026, P012, P015, P048, P113, P120, U002, U032, U052, U080, U133, U134, U144, U151, U154, U161, U209, U211, U220, U226, U239

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	3.13	0.00	31.30
Aluminum-Base Metal/Alloys	0.07	0.00	0.70
Other Metal/Alloys	0.04	0.00	0.40
Other Inorganic Materials	1.24	0.00	12.40
Cellulosics	2.20	0.00	22.00
Rubber	0.26	0.00	2.60
Plastics	15.30	0.00	153.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	Unknown
Source:	Other/Multiple Sources

TRUCON Codes

SR225A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.77E-01
Pu-238	7.71E+01
Pu-239	1.28E+01
Pu-240	3.17E-01
Pu-241	1.54E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : W026-235F-HET

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55-gallon	9.2	0.0	0.0	0.0	0.0	9.2

As-Generated	Stored	Projected	Total
	9.2	0.0	9.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	9.2	0.0	0.0	0.0	0.0	9.2

Final Form	Stored	Projected	Total
	9.2	0.0	9.2

TWBIR ID: W026-235F-HET

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	200 Areas (F and H Separations Facilities). This waste is primarily solids consisting of mainly booties, lab coats, floor sweepings, rags, labware, and other job control wastes. Small Hepas, liquids, sludges and resins may also be found in this stream. The waste is generated primarily through separation activities in the course of plutonium production, includes small amounts of TRU waste from on site laboratories.
Waste Stream Source Description	This waste is generated primarily through separations activities for Plutonium production. A small fraction comes from research activities.
Current Container Comments	Radionuclide concentrations may vary from 3.2.6.
EPA Comments	N/A
Management Comments	The current plan is to characterize the waste followed by shipment and disposal at WIPP. HEPA filters packaged in polyboxes will be packaed into SWB's. All miscellaneous box waste and waste currently stored in 12'x18x'7' steel boxes will be shipped utilizing 5'x5'x8' or smaller containers that meet TRUPACT III and WIPP disposal limits. Regulatory relief is expected to allow shipment of the higher activity drummed waste without volume expansion. Only physical dimension limitations have been assumed for TRUPACT III. For drums that assay at < 100nCi/g, overpacking with > 100nCi/g, drums into TDOPs is planned; however, TDOPs are not identified in the final waste form container description.
Acceptance Comments	Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
Final Form Comments	N/A

TWBIR ID: W026-772F-HET

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	SR-W026	**Handling**	CH	**Stream Name**	CH Mixed TRU/Thirds Heterogeneous debris from 772F			**Inventory Date**	9/30/2002
Local ID	SR-W026	**Waste Type**	MTRU	**Generator Site**	SR	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
D001, D003, D004, D006, D007, D008, D009, D011, D018, D019, D022, D023, D024, D025, D026, P012, P015, P048, P113, P120, U002, U032, U052, U080, U133, U134, U144, U151, U154, U161, U209, U211, U220, U226, U239

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	3.13	0.00	31.30
Aluminum-Base Metal/Alloys	0.07	0.00	0.70
Other Metal/Alloys	0.04	0.00	0.40
Other Inorganic Materials	1.24	0.00	12.40
Cellulosics	2.20	0.00	22.00
Rubber	0.26	0.00	2.60
Plastics	15.30	0.00	153.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	Unknown
Source:	Other/Multiple Sources

TRUCON Codes

SR225A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.77E-01
Pu-238	7.71E+01
Pu-239	1.28E+01
Pu-240	3.17E-01
Pu-241	1.54E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : W026-772F-HET

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum / 55-gallon	2.5	0.0	0.0	0.0	0.0	2.5

As-Generated	Stored	Projected	Total
	2.5	0.0	2.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2.5	0.0	0.0	0.0	0.0	2.5

Final Form	Stored	Projected	Total
	2.5	0.0	2.5

TWBIR ID: W026-772F-HET

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	200 Areas (F and H Separations Facilities). This waste is primarily solids consisting of mainly booties, lab coats, floor sweepings, rags, labware, and other job control wastes. Small Hepas, liquids, sludges and resins may also be found in this stream. The waste is generated primarily through separation activities in the course of plutonium production, includes small amounts of TRU waste from on site laboratories.
Waste Stream Source Description	This waste is generated primarily through separations activities for Plutonium production. A small fraction comes from research activities.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	The current plan is to characterize the waste followed by shipment and disposal at WIPP. HEPA filters packaged in polyboxes will be packaged into SWB's. All miscellaneous box waste and waste currently stored in 12'x18x'7' steel boxes will be shipped utilizing 5'x5'x8' or smaller containers that meet TRUPACT III and WIPP disposal limits. Regulatory relief is expected to allow shipment of the higher activity drummed waste without volume expansion. Only physical dimension limitations have been assumed for TRUPACT III. For drums that assay at < 100nCi/g, overpacking with > 100nCi/g, drums into TDOPs is planned; however, TDOPs are not identified in the final waste form container description.
Acceptance Comments	Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
Final Form Comments	N/A

TWBIR ID: W026-773A-HET

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	SR-W026	**Handling**	CH	**Stream Name**	CH Mixed TRU/Thirds Heterogeneous debris from 773A			**Inventory Date**	9/30/2002
Local ID	SR-W026	**Waste Type**	MTRU	**Generator Site**	SR	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
D001, D003, D004, D006, D007, D008, D009, D011, D018, D019, D022, D023, D024, D025, D026, P012, P015, P048, P113, P120, U002, U032, U052, U080, U133, U134, U144, U151, U154, U161, U209, U211, U220, U226, U239

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	190.00	0.00	380.00
Aluminum-Base Metal/Alloys	0.01	0.00	0.10
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	1126.00	0.00	1126.00
Cellulosics	96.00	0.00	192.00
Rubber	0.05	0.00	0.50
Plastics	60.00	0.00	120.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	153.97		
Packaging Material, Plastic	0.03		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	Unknown
Source:	Other/Multiple Sources

TRUCON Codes

SR225A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.77E-01
Pu-238	7.71E+01
Pu-239	1.28E+01
Pu-240	3.17E-01
Pu-241	1.54E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : W026-773A-HET

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
40"X41"X53" CASK	15.6	0.0	0.0	0.0	0.0	15.6
Box / Misc.	1.9	0.0	0.0	0.0	0.0	1.9
Drum / 55-gallon	1.0	0.0	0.0	0.0	0.0	1.0

As-Generated — Stored: 18.6 | Projected: 0.0 | Total: 18.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0
5'x5'x8' Box	39.6	0.0	0.0	0.0	0.0	39.6

Final Form — Stored: 40.7 | Projected: 0.0 | Total: 40.7

TWBIR ID: W026-773A-HET

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	200 Areas (F and H Separations Facilities). This waste is primarily solids consisting of mainly booties, lab coats, floor sweepings, rags, labware, and other job control wastes. Small Hepas, liquids, sludges and resins may also be found in this stream. The waste is generated primarily through separation activities in the course of plutonium production, includes small amounts of TRU waste from on site laboratories.
Waste Stream Source Description	This waste is generated primarily through separations activities for Plutonium production. A small fraction comes from research activities.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	The current plan is to characterize the waste followed by shipment and disposal at WIPP. HEPA filters packaged in polyboxes will be packaged into SWB's. All miscellaneous box waste and waste currently stored in 12'x18x'7' steel boxes will be shipped utilizing 5'x5'x8' or smaller containers that meet TRUPACT III and WIPP disposal limits. Regulatory relief is expected to allow shipment of the higher activity drummed waste without volume expansion. Only physical dimension limitations have been assumed for TRUPACT III. For drums that assay at < 100nCi/g, overpacking with > 100nCi/g, drums into TDOPs is planned; however, TDOPs are not identified in the final waste form container description.
Acceptance Comments	Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
Final Form Comments	N/A

TWBIR ID: W027-221F-HET

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	SR-W027	**Handling**	CH	**Stream Name**	CH Mixed TRU/F listed solvents - Heterogeneous debris from 221F			**Inventory Date**	9/30/2002
Local ID	SR-W0027	**Waste Type**	MTRU	**Generator Site**	SR	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
D005, D006, D007, D008, D009, D011, D018, D019, D022, D029, D039, D040, D043, F001, F002, F003, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	26.00	0.00	52.00
Aluminum-Base Metal/Alloys	0.10	0.00	1.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	6.70	0.00	13.40
Cellulosics	6.60	0.00	13.20
Rubber	0.20	0.00	2.00
Plastics	13.50	0.00	27.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	138.38		
Packaging Material, Plastic	24.99		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

SR225A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.77E-01
Pu-238	7.71E+01
Pu-239	1.28E+01
Pu-240	3.17E-01
Pu-241	1.54E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : W027-221F-HET

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / 12' x 18' x 7'	385.3	0.0	0.0	0.0	0.0	385.3
Box / Misc.	30.8	0.0	0.0	0.0	0.0	30.8
Drum / 55-gallon	2508.1	0.0	0.0	0.0	0.0	2508.1

As-Generated	Stored	Projected	Total
	2924.1	0.0	2924.1

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	2508.1	0.0	0.0	0.0	0.0	2508.1
5'x5'x8' Box	543.4	0.0	0.0	0.0	0.0	543.4

Final Form	Stored	Projected	Total
	3051.4	0.0	3051.4

TWBIR ID: W027-221F-HET

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is primarily solids consisting of booties, lab coats, floor sweeping, labware, rags, and other job control waste. This stream differs from SR-W026 because solvent rags are suspected to be in the waste.
Waste Stream Source Description	This waste is generated primarily through separations activities for Plutonium production. A small fraction comes from research activities.
Current Container Comments	Radionuclide concentration may vary from 3.2.6.
EPA Comments	A conservative interpretation of the mixed waste rule resulted in this waste stream being listed as solvent waste because of the potential presence of solvent rags.
Management Comments	The current plan is to characterize the waste followed by shipment and disposal at WIPP. HEPA filters packaged in polyboxes will be packaged into SWB's. All miscellaneous box waste and waste currently stored in 12'x18x'7' steel boxes will be shipped utilizing 5'x5'x8' or smaller containers that meet TRUPACT III and WIPP disposal limits. Regulatory relief is expected to allow shipment of the higher activity drummed waste without volume expansion. Only physical dimension limitations have been assumed for TRUPACT III. For drums that assay at < 100nCi/g, overpacking with > 100nCi/g, drums into TDOPs is planned; however, TDOPs are not identified in the final waste form container description.
Acceptance Comments	Section 7.1: Breakdown of container #'s is estimated from total # in storage. Boxes and drums in culverts on Pads 7-17 are assumed to be TRU. For other pads and containers, 64% are estimated to be TRU. Waste on Pads 1-6 is assumed to be all solvent rags. Section 7.2: SRS TRU waste is found under TRUCON codes SR116A,B,C, SR122A,B,C and SR125A. GENERAAREA: 221 HB-Line, 221 FB-Line, 773-A, 772-F, 235-FGENOPERATI: Production of plutonium, uranium, neptunium, and laboratory support activities. RECLASS_CO: All waste identified by SR-W025, W026, W027, W033 will be assayed to determine TRU classification. Current classifications are based on process knowledge. CATION: NALDR_DETERM: Wastes placed in storage prior to LDR effective date (11/8/86). WASTE_PACK: Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
Final Form Comments	N/A

TWBIR ID: W027-221H-HET

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	SR-W027	**Handling**	CH	**Stream Name**	CH Mixed TRU/F listed solvents - Heterogeneous debris from 221H			**Inventory Date**	9/30/2002
Local ID	SR-W0027	**Waste Type**	MTRU	**Generator Site**	SR	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
D006, D008, D009, D019, D022, D029, D035, D039, D040, D043, F001, F002, F003, F005, U133

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	36.00	0.00	72.00
Aluminum-Base Metal/Alloys	0.05	0.00	0.50
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	65.00	0.00	130.00
Cellulosics	13.20	0.00	24.00
Rubber	3.00	0.00	6.00
Plastics	16.00	0.00	32.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	140.27		
Packaging Material, Plastic	21.35		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

SR225A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.77E-01
Pu-238	7.71E+01
Pu-239	1.28E+01
Pu-240	3.17E-01
Pu-241	1.54E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : W027-221H-HET

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
40"X41"X53" CASK	14.2	0.0	0.0	0.0	0.0	14.2
Box / 12' x 18' x 7'	171.2	0.0	0.0	0.0	0.0	171.2
Box / Misc.	56.0	0.0	0.0	0.0	0.0	56.0
Drum / 55 gallon	1018.2	0.0	0.0	0.0	0.0	1018.2

As-Generated	Stored	Projected	Total
	1259.6	0.0	1259.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	1018.2	0.0	0.0	0.0	0.0	1018.2
5'x5'x8' Box	317.0	0.0	0.0	0.0	0.0	317.0

Final Form	Stored	Projected	Total
	1335.1	0.0	1335.1

TWBIR ID: W027-221H-HET

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is primarily solids consisting of booties, lab coats, floor sweeping, labware, rags, and other job control waste. This stream differs from SR-W026 because solvent rags are suspected to be in the waste.
Waste Stream Source Description	This waste is generated primarily through separations activities for Plutonium production. A small fraction comes from research activities.
Current Container Comments	Radionuclide concentration may vary from 3.2.6.
EPA Comments	A conservative interpretation of the mixed waste rule resulted in this waste stream being listed as solvent waste because of the potential presence of solvent rags.
Management Comments	The current plan is to characterize the waste followed by shipment and disposal at WIPP. HEPA filters packaged in polyboxes will be packaged into SWB's. All miscellaneous box waste and waste currently stored in 12'x18x'7' steel boxes will be shipped utilizing 5'x5'x8' or smaller containers that meet TRUPACT III and WIPP disposal limits. Regulatory relief is expected to allow shipment of the higher activity drummed waste without volume expansion. Only physical dimension limitations have been assumed for TRUPACT III. For drums that assay at < 100nCi/g, overpacking with > 100nCi/g, drums into TDOPs is planned; however, TDOPs are not identified in the final waste form container description.
Acceptance Comments	Section 7.1: Breakdown of container #'s is estimated from total # in storage. Boxes and drums in culverts on Pads 7-17 are assumed to be TRU. For other pads and containers, 64% are estimated to be TRU. Waste on Pads 1-6 is assumed to be all solvent rags. Section 7.2: SRS TRU waste is found under TRUCON codes SR116A,B,C, SR122A,B,C and SR125A. GENERAAREA: 221 HB-Line, 221 FB-Line, 773-A, 772-F, 235-FGENOPERATI: Production of plutonium, uranium, neptunium, and laboratory support activities. RECLASS_CO: All waste identified by SR-W025, W026, W027, W033 will be assayed to determine TRU classification. Current classifications are based on process knowledge. CATION: NALDR_DETERM: Wastes placed in storage prior to LDR effective date (11/8/86). WASTE_PACK: Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
Final Form Comments	N/A

TWBIR ID: W027-235F-HET

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	SR-W027	**Handling**	CH	**Stream Name**	CH Mixed TRU/F listed solvents - Heterogeneous debris from 235F			**Inventory Date**	9/30/2002
Local ID	SR-W0027	**Waste Type**	MTRU	**Generator Site**	SR	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
D001, D003, D004, D006, D007, D008, D009, D011, D018, D019, D022, D023, D024, D025, D026, F001, F002, F003, F005, P012, P015, P048, P113, P120, U002, U032, U052, U080, U133, U134, U144, U151, U154, U161, U209, U211, U220, U226, U239

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	30.00	0.00	60.00
Aluminum-Base Metal/Alloys	0.05	0.00	0.50
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	8.00	0.00	16.00
Cellulosics	7.50	0.00	15.00
Rubber	0.20	0.00	2.00
Plastics	13.00	0.00	26.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	140.06		
Packaging Material, Plastic	22.46		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

SR225A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.77E-01
Pu-238	7.71E+01
Pu-239	1.28E+01
Pu-240	3.17E-01
Pu-241	1.54E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : W027-235F-HET

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / 12' x 18' x 7'	42.8	0.0	0.0	0.0	0.0	42.8
Box / Misc.	28.0	0.0	0.0	0.0	0.0	28.0
Drum / 55-gallon	311.2	0.0	0.0	0.0	0.0	311.2

As-Generated	Stored	382.0	Projected	0.0	Total	382.0

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	311.2	0.0	0.0	0.0	0.0	311.2
5'x5'x8' Box	90.6	0.0	0.0	0.0	0.0	90.6

Final Form	Stored	401.7	Projected	0.0	Total	401.7

TWBIR ID: W027-235F-HET

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is primarily solids consisting of booties, lab coats, floor sweeping, labware, rags, and other job control waste. This stream differs from SR-W026 because solvent rags are suspected to be in the waste.
Waste Stream Source Description	This waste is generated primarily through separations activities for Plutonium production. A small fraction comes from research activities.
Current Container Comments	N/A
EPA Comments	A conservative interpretation of the mixed waste rule resulted in this waste stream being listed as solvent waste because of the potential presence of solvent rags.
Management Comments	The current plan is to characterize the waste followed by shipment and disposal at WIPP. HEPA filters packaged in polyboxes will be packaged into SWB's. All miscellaneous box waste and waste currently stored in 12'x18x'7' steel boxes will be shipped utilizing 5'x5'x8' or smaller containers that meet TRUPACT III and WIPP disposal limits. Regulatory relief is expected to allow shipment of the higher activity drummed waste without volume expansion. Only physical dimension limitations have been assumed for TRUPACT III. For drums that assay at < 100nCi/g, overpacking with > 100nCi/g, drums into TDOPs is planned; however, TDOPs are not identified in the final waste form container description.
Acceptance Comments	Section 7.2: SRS TRU waste is found under TRUCON codes SR116A,B,C, SR122A,B,C and SR125A. GENERAAREA: 221 HB-Line, 221 FB-Line, 773-A, 772-F, 235-FGENOPERATI: Production of plutonium, uranium, neptunium, and laboratory support activities. RECLASS_CO: All waste identified by SR-W025, W026, W027, W033 will be assayed to determine TRU classification. Current classifications are based on process knowledge. CATION: NALDR_DETERM: Wastes placed in storage prior to LDR effective date (11/8/86). WASTE_PACK: Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
Final Form Comments	N/A

TWBIR ID: W027-772F-HET

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	SR-W027	**Handling**	CH	**Stream Name**	CH Mixed TRU/F listed solvents - Heterogeneous debris from 772F			**Inventory Date**	9/30/2002
Local ID	SR-W0027	**Waste Type**	MTRU	**Generator Site**	SR	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
D001, D003, D004, D006, D007, D008, D009, D011, D018, D019, D022, D023, D024, D025, D026, F001, F002, F003, F005, P012, P015, P048, P113, P120, U002, U032, U052, U080, U133, U134, U144, U151, U154, U161, U209, U211, U220, U226, U239

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	18.00	0.00	36.00
Aluminum-Base Metal/Alloys	0.50	0.00	5.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	5.00	0.00	10.00
Cellulosics	5.00	0.00	10.00
Rubber	0.20	0.00	2.00
Plastics	14.00	0.00	28.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	136.48		
Packaging Material, Plastic	28.90		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

SR225A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.77E-01
Pu-238	7.71E+01
Pu-239	1.28E+01
Pu-240	3.17E-01
Pu-241	1.54E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : W027-772F-HET

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / Misc.	84.0	0.0	0.0	0.0	0.0	84.0
Drum / 55-gallon	639.2	0.0	0.0	0.0	0.0	639.2

As-Generated	Stored	Projected	Total
	723.2	0.0	723.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	639.2	0.0	0.0	0.0	0.0	639.2
5'x5'x8' Box	90.6	0.0	0.0	0.0	0.0	90.6

Final Form	Stored	Projected	Total
	729.7	0.0	729.7

TWBIR ID: W027-772F-HET

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is primarily solids consisting of booties, lab coats, floor sweeping, labware, rags, and other job control waste. This stream differs from SR-W026 because solvent rags are suspected to be in the waste.
Waste Stream Source Description	This waste is generated primarily through separations activities for Plutonium production. A small fraction comes from research activities.
Current Container Comments	Radionuclide concentration may vary from 3.2.6.
EPA Comments	A conservative interpretation of the mixed waste rule resulted in this waste stream being listed as solvent waste because of the potential presence of solvent rags.
Management Comments	The current plan is to characterize the waste followed by shipment and disposal at WIPP. HEPA filters packaged in polyboxes will be packaged into SWB's. All miscellaneous box waste and waste currently stored in 12'x18x'7' steel boxes will be shipped utilizing 5'x5'x8' or smaller containers that meet TRUPACT III and WIPP disposal limits. Regulatory relief is expected to allow shipment of the higher activity drummed waste without volume expansion. Only physical dimension limitations have been assumed for TRUPACT III. For drums that assay at < 100nCi/g, overpacking with > 100nCi/g, drums into TDOPs is planned; however, TDOPs are not identified in the final waste form container description.
Acceptance Comments	Section 7.2: SRS TRU waste is found under TRUCON codes SR116A,B,C, SR122A,B,C and SR125A. GENERAAREA: 221 HB-Line, 221 FB-Line, 773-A, 772-F, 235-FGENOPERATI: Production of plutonium, uranium, neptunium, and laboratory support activities. RECLASS_CO: All waste identified by SR-W025, W026, W027, W033 will be assayed to determine TRU classification. Current classifications are based on process knowledge. CATION: NALDR_DETERM: Wastes placed in storage prior to LDR effective date (11/8/86). WASTE_PACK: Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
Final Form Comments	N/A

TWBIR ID: W027-773A-HET

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	SR-W027	**Handling**	CH	**Stream Name**	CH Mixed TRU/F listed solvents - Heterogeneous debris from 773A			**Inventory Date**	9/30/2002
Local ID	SR-W0027	**Waste Type**	MTRU	**Generator Site**	SR	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5000

EPA Codes

As-Generated
D001, D003, D004, D006, D007, D008, D009, D011, D018, D019, D022, D023, D024, D025, D026, F001, F002, F003, F005, P012, P015, P048, P113, P120, U002, U032, U052, U080, U133, U134, U144, U151, U154, U161, U209, U211, U220, U226, U239

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	139.00	0.00	278.00
Aluminum-Base Metal/Alloys	0.02	0.00	0.10
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	798.00	0.00	798.00
Cellulosics	69.00	0.00	138.00
Rubber	37.00	0.00	74.00
Plastics	46.00	0.00	92.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	152.34		
Packaging Material, Plastic	2.86		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

SR225A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.77E-01
Pu-238	7.71E+01
Pu-239	1.28E+01
Pu-240	3.17E-01
Pu-241	1.54E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : W027-773A-HET

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
40"X41"X53" CASK	324.0	0.0	0.0	0.0	0.0	324.0
Box / Misc.	142.8	0.0	0.0	0.0	0.0	142.8
Drum / 55-gallon	302.0	0.0	0.0	0.0	0.0	302.0

As-Generated	Stored	768.8	Projected	0.0	Total	768.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	302.0	0.0	0.0	0.0	0.0	302.0
5'x5'x8' Box	786.7	0.0	0.0	0.0	0.0	786.7

Final Form	Stored	1088.8	Projected	0.0	Total	1088.8

TWBIR ID: W027-773A-HET

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is primarily solids consisting of booties, lab coats, floor sweeping, labware, rags, and other job control waste. This stream differs from SR-W026 because solvent rags are suspected to be in the waste.
Waste Stream Source Description	This waste is generated primarily through separations activities for Plutonium production. A small fraction comes from research activities.
Current Container Comments	Radionuclide concentration may vary from 3.2.6.
EPA Comments	A conservative interpretation of the mixed waste rule resulted in this waste stream being listed as solvent waste because of the potential presence of solvent rags.
Management Comments	The current plan is to characterize the waste followed by shipment and disposal at WIPP. HEPA filters packaged in polyboxes will be packaged into SWB's. All miscellaneous box waste and waste currently stored in 12'x18x'7' steel boxes will be shipped utilizing 5'x5'x8' or smaller containers that meet TRUPACT III and WIPP disposal limits. Regulatory relief is expected to allow shipment of the higher activity drummed waste without volume expansion. Only physical dimension limitations have been assumed for TRUPACT III. For drums that assay at < 100nCi/g, overpacking with > 100nCi/g, drums into TDOPs is planned; however, TDOPs are not identified in the final waste form container description.
Acceptance Comments	Section 7.2: SRS TRU waste is found under TRUCON codes SR116A,B,C, SR122A,B,C and SR125A. GENERAAREA: 221 HB-Line, 221 FB-Line, 773-A, 772-F, 235-FGENOPERATI: Production of plutonium, uranium, neptunium, and laboratory support activities. RECLASS_CO: All waste identified by SR-W025, W026, W027, W033 will be assayed to determine TRU classification. Current classifications are based on process knowledge. CATION: NALDR_DETERM: Wastes placed in storage prior to LDR effective date (11/8/86). WASTE_PACK: Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
Final Form Comments	N/A

TWBIR ID: W027-999-HET

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	SR-W027	**Handling**	CH	**Stream Name**	CH Mixed TRU/F listed solvents - Heterogeneous debris from offsite	**Inventory Date**	9/30/2002
Local ID	SR-W0027	**Waste Type**	MTRU	**Generator Site**	SR	**Final Waste Form**	Heterogeneous Debris	**Waste Matrix Code**	S5400

EPA Codes

As-Generated
D001, D003, D004, D006, D007, D008, D009, D011, D018, D019, D022, D023, D024, D025, D026, F001, F002, F003, F005, P012, P015, P048, P113, P120, U002, U032, U052, U080, U133, U134, U144, U151, U154, U161, U209, U211, U220, U226, U239

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	55.00	0.00	110.00
Aluminum-Base Metal/Alloys	0.04	0.00	0.40
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	14.00	0.00	28.00
Cellulosics	12.00	0.00	24.00
Rubber	0.20	0.00	2.00
Plastics	11.00	0.00	22.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	145.77		
Packaging Material, Plastic	12.93		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	Yes
Asbestos:	Unknown
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

SR225A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.77E-01
Pu-238	7.71E+01
Pu-239	1.28E+01
Pu-240	3.17E-01
Pu-241	1.54E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : W027-999-HET

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Box / Misc.	100.8	0.0	0.0	0.0	0.0	238.0
Drum / 30 gallon	27.5	0.0	0.0	0.0	0.0	27.5
Drum / 55-gallon	155.0	54.0	81.0	0.0	0.0	290.0
DRUM / 83 gallon	18.8	0.0	0.0	0.0	0.0	18.8

As-Generated	Stored	302.1	Projected	272.2	Total	574.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	346.9
5'x5'x8' Box	0.0	0.0	0.0	0.0	0.0	243.4

Final Form	Stored	0.0	Projected	590.3	Total	590.3

TWBIR ID: W027-999-HET

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream is primarily solids consisting of booties, lab coats, floor sweeping, labware, rags, and other job control waste.
Waste Stream Source Description	This waste is generated primarily through separations activities for Plutonium production. A small fraction comes from research activities.
Current Container Comments	Radionuclide concentration may vary from 3.2.6.
EPA Comments	A conservative interpretation of the mixed waste rule resulted in this waste stream being listed as solvent waste because of the potential presence of solvent rags.
Management Comments	The current plan is to characterize the waste followed by shipment and disposal at WIPP. HEPA filters packaged in polyboxes will be packaged into SWB's. All miscellaneous box waste and waste currently stored in 12'x18x'7' steel boxes will be shipped utilizing 5'x5'x8' or smaller containers that meet TRUPACT III and WIPP disposal limits. Regulatory relief is expected to allow shipment of the higher activity drummed waste without volume expansion. Only physical dimension limitations have been assumed for TRUPACT III. For drums that assay at < 100nCi/g, overpacking with > 100nCi/g, drums into TDOPs is planned; however, TDOPs are not identified in the final waste form container description. This waste stream has been expanded to include the receipt of future Mound waste.
Acceptance Comments	Section 7.2: SRS TRU waste is found under TRUCON codes SR116A,B,C, SR122A,B,C and SR125A. GENERAAREA: 221 HB-Line, 221 FB-Line, 773-A, 772-F, 235-FGENOPERATI: Production of plutonium, uranium, neptunium, and laboratory support activities. GECLASS_CO: All waste identified by SR-W025, W026, W027, W033 will be assayed to determine TRU classification. Current classifications are based on process knowledge. CATION: NADR_DETERM: Wastes placed in storage prior to LDR effective date (11/8/86). WASTE_PACK: Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
Final Form Comments	N/A

TWBIR ID: W053-773A-VIT

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	SR-W053	**Handling**	CH	**Stream Name**	Contact handled mixed TRU/Residues from 773A			**Inventory Date**	9/30/2002
Local ID	SR-W053	**Waste Type**	MTRU	**Generator Site**	N/A	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3111

EPA Codes

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, F001, F002, F005

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	273.00	87.00	944.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	2415.00	2205.00	2473.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	Yes
Asbestos:	No
PCBs:	No
Source:	R&D/R&D Laboratory Waste

TRUCON Codes

OT YET ASSIGNE

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-239	6.40E+02

Waste Volume Detail (Cubic meters) for TWBIR ID : W053-773A-VIT

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
small carton in 30 gal containe	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated	Stored	0.6	Projected	0.0	Total	0.6

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6

Final Form	Stored	0.6	Projected	0.0	Total	0.6

TWBIR ID: W053-773A-VIT

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream consists of Rocky Flats Incinerator Ash and F-listed solvents, and is contaminated with TRU nuclides from SRS laboratories. This waste is classified as contact-handled.
Waste Stream Source Description	This ash was sent to SRS from Rocky Flats for research into plutonium recovery. The ash was classified as hazardous by the Colorado Court System based on chemical analysis of F-listed solvent wste processed in the Rocky Flats Incinerator. SRS subsequently cancelled the research. The ash was declared mixed after SRS handled the waste as a Special Nuclear Material (SNM) in a SRTC vault.
Current Container Comments	paper cartons are placed in 30 gallon shipping containers
EPA Comments	The confidence level is low because process knowledge was used for characterization, no analytical data is available.
Management Comments	The preferred treatment option is to return the ash to Rocky Flats for consolidation and treatment with similar wastes. Treatment (if any) would then be at the discretion of Rocky Flats. Until a full agreement between SRS and RF has been reached, preliminary plans indicate SRS would add this small stream to a larger stream for vitrification. The waste itself is in four small cartons which are placed in 30 gallon shipping containers at a ratio of two small cartons per shipping container.
Acceptance Comments	One-time generation. Went in storage prior to the effective date of May 8, 1992.
Final Form Comments	This stream is currently stored in a total of 4 cartons which are placed in 30 gallon shipping containers (not TRAMPAC approved). 2 cartons per shipping container. The containers are stored in 235-F.