

Title 40 CFR Part 191 Subparts B and C Compliance Recertification Application 2004

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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	0.00	0.00	0.00	Residues:	No		Am-241	2.46E+00
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	Unknown		Cf-252	1.84E-02
	Other Metal/Alloys	111.26	0.00	0.00	PCBs:	No		Pu-239	2.13E-02
	Other Inorganic Materials	0.00	0.00	0.00	Source:	Source Information Not Compiled			
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W372.832													
As-Generated Volumes							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	Total
Drum	0.6	0.0	0.0	0.0	0.0	0.6	SWB used to overpack 55 gall	1.9	0.0	0.0	0.0	0.0	1.9
As-Generated	Stored 0.6	Projected 0.0	Total 0.6			Final Form	Stored 1.9	Projected 0.0	Total 1.9				

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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

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TWBIR ID: IN-W372.918

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	0.00	0.00	0.00	Residues:	No		Am-241	3.54E-02
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	Unknown		Cs-137	5.51E-02
	Other Metal/Alloys	270.87	0.00	0.00	PCBs:	No		Pu-238	3.12E-02
	Other Inorganic Materials	0.00	0.00	0.00	Source:	Source Information Not Compiled		Pu-239	8.20E-04
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W372.918													
As-Generated Volumes							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum	3.0	0.0	0.0	0.0	0.0	3.0	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
As-Generated	Stored 3.0	Projected 0.0			Total 3.0		Final Form	Stored 11.9	Projected 0.0			Total 11.9	

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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.

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TWBIR ID: IN-W375.1096

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	0.00	0.00	0.00	Residues:	No		Pu-238	3.54E-03
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	No		Pu-239	1.00E-01
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	No		Pu-240	2.27E-02
	Other Inorganic Materials	96.11	0.00	0.00	Source:	Pollution Control or Waste Treatment Process		Pu-242	1.63E-06
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W375.1096													
As-Generated Volumes							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Box / Misc.	25.4	0.0	0.0	0.0	0.0	25.4	SWB	32.1	0.0	0.0	0.0	0.0	32.1
Drum / 55 gallon	62.8	0.0	0.0	0.0	0.0	62.8	TDOP	167.6	0.0	0.0	0.0	0.0	167.6
As-Generated	Stored	88.2	Projected	0.0	Total	88.2	Final Form	Stored	199.8	Projected	0.0	Total	199.8

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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

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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			
EPA Codes		Waste Material Parameters (kg/m3)			Final Waste Form Descriptors		TRUCON Codes		Final Form Radionuclides	

As-Generated
N/A

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		

Category:	Defense TRU Waste	TRUCON Codes	N/A
Residues:	No		
Asbestos:	No		
PCBs:	No		
Source:	R&D/R&D Laboratory Waste		

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							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
RH Canister / 5-gallon	3.1	0.9	1.8	1.1	0.0	7.1	RH Canister	0.0	0.0	0.0	0.0	0.0	122.8
As-Generated	Stored 3.1	Projected 4.0	Total 7.1				Final Form	Stored 0.0	Projected 122.8	Total 122.8			

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TWBIR ID: KA-T001

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)		Final Form Radionuclides (Continued)		Final Form Radionuclides (Continued)	
Isotope	Typical Concentration (Ci/m3)	Isotope	Typical Concentration (Ci/m3)	Isotope	Typical Concentration (Ci/m3)
Cs-137	5.83E-01	Pu-244	1.27E-14	U-234	3.55E-05
I-129	2.71E-07	Ra-226	6.64E-11	U-235	5.32E-07
Ni-59	1.29E-06	Ra-228	2.96E-13	U-236	5.05E-06
Ni-63	1.41E-04	Se-79	7.62E-07	U-238	2.34E-09
Np-237	6.29E-06	Sm-151	8.60E-03	Zr-93	1.91E-05
Pa-231	7.06E-10	Sn-121m	2.25E-05		
Pb-210	1.71E-11	Sn-126	2.48E-06		
Pd-107	1.24E-07	Sr-90	5.55E-01		
Pm-147	5.69E-04	Tc-99	1.56E-04		
Pu-238	2.11E-02	Th-229	6.82E-12		
Pu-239	5.59E-05	Th-230	9.93E-09		
Pu-240	1.40E-05	Th-232	3.05E-13		
Pu-241	2.08E-03	U-232	2.55E-07		
Pu-242	5.34E-08	U-233	2.85E-09		

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.

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TWBIR ID: KA-W016

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		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	No	
Asbestos:	No	
PCBs:	No	
Source:	R&D/R&D Laboratory Waste	

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							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	Total
RH Canister / 5-gallon	0.0	0.1	0.2	0.1	0.0	0.7	RH Canister	0.0	0.0	0.0	0.0	0.0	12.5
As-Generated	Stored 0.0	Projected 0.7	Total 0.7				Final Form	Stored 0.0	Projected 12.5	Total 12.5			

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TWBIR ID: KA-W016

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)		Final Form Radionuclides (Continued)		Final Form Radionuclides (Continued)	
Isotope	Typical Concentration (Ci/m3)	Isotope	Typical Concentration (Ci/m3)	Isotope	Typical Concentration (Ci/m3)
Cs-137	5.84E-01	Pu-244	1.27E-14	U-234	3.56E-05
I-129	2.72E-07	Ra-226	6.66E-11	U-235	5.34E-07
Ni-59	1.29E-06	Ra-228	2.97E-13	U-236	5.06E-06
Ni-63	1.41E-04	Se-79	7.64E-07	U-238	2.34E-09
Np-237	6.31E-06	Sm-151	8.62E-03	Zr-93	1.91E-05
Pa-231	7.08E-10	Sn-121m	2.25E-05		
Pb-210	1.71E-11	Sn-126	2.49E-06		
Pd-107	1.25E-07	Sr-90	5.57E-01		
Pm-147	5.71E-04	Tc-99	1.56E-04		
Pu-238	2.12E-02	Th-229	6.84E-12		
Pu-239	5.60E-05	Th-230	9.96E-09		
Pu-240	1.40E-05	Th-232	3.06E-13		
Pu-241	2.09E-03	U-232	2.55E-07		
Pu-242	5.35E-08	U-233	2.85E-09		

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

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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		
EPA Codes		Waste Material Parameters (kg/m3)			Final Waste Form Descriptors		TRUCON Codes		Final Form Radionuclides

As-Generated
N/A

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		

Category:	Defense TRU Waste	TRUCON Codes	N/A
Residues:	No		
Asbestos:	No		
PCBs:	No		
Source:	Remediation/D&D Waste		

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

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

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

As-Generated	Stored 54.9	Projected 170.1	Total 225.0
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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.

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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		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	No	
Asbestos:	Yes	
PCBs:	No	
Source:	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						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
55 Gallon Drum	9.8	0.0	0.0	0.0	0.0	9.8	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	Stored 9.8	Projected 0.0	Total 9.8				

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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

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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	Waste Material Parameters (kg/m3)			Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides		
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	190.24	0.00	0.00	Residues:	No		Am-241	6.25E+01
	Aluminum-Base Metal/Alloys	0.18	0.00	0.00	Asbestos:	Yes		Am-241	1.28E+01
	Other Metal/Alloys	6.07	0.00	0.00	PCBs:	No		Pu-238	2.68E+03
	Other Inorganic Materials	0.66	0.00	0.00	Source:	N/A		Pu-238	6.69E+01
	Cellulosics	0.73	0.00	0.00				Pu-239	1.77E+01
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-OS-00-01													
As-Generated Volumes						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
POC	37.7	248.8	331.8	0.0	0.0	618.3	POC	2.1	0.0	0.0	0.0	0.0	34.1
As-Generated	Stored	37.7	Projected	580.6	Total	618.3	Final Form	Stored	2.1	Projected	32.0	Total	34.1

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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 Contains containers not previously associated with an identified BIR WS

Acceptance Comments N/A

Final Form Comments N/A

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Unknown	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	52.81	0.00	0.00	Residues:	No		Am-241	2.32E-02
	Aluminum-Base Metal/Alloys	0.96	0.00	0.00	Asbestos:	Yes		Pu-238	1.35E-02
	Other Metal/Alloys	0.70	0.00	0.00	PCBs:	No		Pu-239	1.45E-01
	Other Inorganic Materials	4.63	0.00	0.00	Source:	N/A		Pu-240	3.41E-02
	Cellulosics	15.28	0.00	0.00				Pu-241	3.49E-01
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-PX-00-01													
As-Generated Volumes						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6	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	Stored 0.6	Projected 0.0	Total 0.6				

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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

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	20.51	0.18	188.42	Residues:	No		Np-237	1.24E-02
	Aluminum-Base Metal/Alloys	2.80	0.18	33.06	Asbestos:	Yes		Pu-238	5.00E-01
	Other Metal/Alloys	2.28	0.18	27.86	PCBs:	No		Pu-239	3.67E-01
	Other Inorganic Materials	102.54	0.18	226.84	Source:	N/A			
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-SL-00-01													
As-Generated Volumes						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4	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	Stored 0.4	Projected 0.0	Total 0.4				

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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

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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		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	No	
Asbestos:	Yes	
PCBs:	No	
Source:	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							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	Total
55 Gallon Drum	220.5	0.0	0.0	0.0	0.0	220.5	55 Gallon Drum	220.7	0.0	0.0	0.0	0.0	220.7
Drum / 85-gallon	0.6	0.0	0.0	0.0	0.0	0.6	85 Gallon Drum	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	221.1	Projected	0.0	Total	221.1	Final Form	Stored	221.3	Projected	0.0	Total	221.3

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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 contains containers not previously associated with an identified BIR WS.

Acceptance Comments N/A

Final Form Comments N/A

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	3.19	0.00	0.00	Residues:	No		Am-241	4.53E-03
	Aluminum-Base Metal/Alloys	0.27	0.00	0.00	Asbestos:	Yes		Am-243	2.35E-06
	Other Metal/Alloys	0.22	0.00	0.00	PCBs:	No		Np-237	2.16E-07
	Other Inorganic Materials	3.47	0.00	0.00	Source:	N/A		Pu-238	2.98E-01
	Cellulosics	22.75	0.00	0.00				Pu-239	1.47E-02
	Rubber	5.30	0.00	0.00				Pu-240	3.45E-03
	Plastics	88.58	0.00	0.00				Pu-241	5.42E-02
	Solidified, Inorganic Matrix	0.00	0.00	0.00				Pu-242	5.61E-06
	Cement (Solidified)	0.00	0.00	0.00				Pu-244	5.16E-12
	Vitrified	0.00	0.00	0.00				U-234	3.03E-07
	Solidified, Organic Matrix	0.00	0.00	0.00				U-235	1.06E-08
	Soils	0.00	0.00	0.00				U-236	1.26E-09
	Packaging Material, Steel	131.00						U-238	1.69E-09
	Packaging Material, Plastic	0.00							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-03-13													
As-Generated Volumes						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55 gallon	46.4	0.0	0.0	0.0	0.0	46.4	55 Gallon Drum	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	Stored	46.4	Projected	0.0	Total	46.4

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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 contains containers not previously associated with an identified BIR WS

Acceptance Comments N/A

Final Form Comments N/A

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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		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	No	
Asbestos:	Yes	
PCBs:	No	
Source:	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						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
55 Gallon Drum	141.0	0.0	0.0	0.0	0.0	141.0	55 Gallon Drum	141.2	0.0	0.0	0.0	0.0	141.2
Drum / 30-gallon / Pit	4.2	0.0	0.0	0.0	0.0	4.2	55 Gallon Drum/Overpack 30	7.7	0.0	0.0	0.0	0.0	7.7
Drum / 85-gallon	2.6	0.0	0.0	0.0	0.0	2.6	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	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	Stored	179.9	Projected	0.0	Total	179.9

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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

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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			
EPA Codes		Waste Material Parameters (kg/m3)			Final Waste Form Descriptors		TRUCON Codes		Final Form Radionuclides	

As-Generated
N/A

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		

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

TRUCON Codes	N/A
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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							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	Total
55 Gallon Drum	29.7	0.0	0.0	0.0	0.0	29.7	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	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	Stored	30.1	Projected	0.0	Total	30.1

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TWBIR ID: LA-TA-03-20

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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

Title 40 CFR Part 191 Subparts B and C Compliance Recertification Application 2004

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			
EPA Codes		Waste Material Parameters (kg/m3)			Final Waste Form Descriptors		TRUCON Codes		Final Form Radionuclides	

As-Generated
N/A

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		

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

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							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
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	55 Gallon Drum	19.6	0.0	0.0	0.0	0.0	19.6
Drum / 85-gallon	1.0	0.0	0.0	0.0	0.0	1.0	55 Gallon Drum/Overpack 30	1.9	0.0	0.0	0.0	0.0	1.9
Standard Waste Box	7.6	0.0	0.0	0.0	0.0	7.6	85 Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0
Unknown Small	0.0	0.0	0.0	0.0	0.0	0.0	Standard Waste Box	7.6	0.0	0.0	0.0	0.0	7.6

As-Generated	Stored	28.9	Projected	0.0	Total	28.9	Final Form	Stored	29.9	Projected	0.0	Total	29.9
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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 identified BIR WS

Acceptance Comments N/A

Final Form Comments N/A

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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		
EPA Codes		Waste Material Parameters (kg/m3)			Final Waste Form Descriptors		TRUCON Codes		Final Form Radionuclides

As-Generated
N/A

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		

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

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					Final Form Volumes								
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
55 Gallon Drum	7.5	0.0	0.0	0.0	0.0	7.5	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	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	Stored 24.3	Projected 0.0	Total 24.3			

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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

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	15.40	0.00	0.00	Residues:	No		Cs-137	2.58E-01
	Aluminum-Base Metal/Alloys	2.10	0.00	0.00	Asbestos:	Yes		Eu-155	4.82E-03
	Other Metal/Alloys	1.70	0.00	0.00	PCBs:	No		Pu-238	1.37E-04
	Other Inorganic Materials	77.20	0.00	0.00	Source:	N/A		Pu-239	2.03E-02
	Cellulosics	1.70	0.00	0.00				Pu-240	2.21E-04
	Rubber	0.90	0.00	0.00				Pu-241	7.98E-03
	Plastics	3.50	0.00	0.00				Pu-242	1.32E-07
	Solidified, Inorganic Matrix	0.10	0.00	0.00				Ru-106	1.92E-03
	Cement (Solidified)	0.00	0.00	0.00				Sb-125	1.03E-02
	Vitrified	0.00	0.00	0.00				U-234	1.52E-07
	Solidified, Organic Matrix	0.80	0.00	0.00				U-235	8.04E-07
	Soils	0.10	0.00	0.00				U-236	7.00E-10
	Packaging Material, Steel	434.00						U-238	3.53E-09
	Packaging Material, Plastic	0.00							
	Packaging Material, Lead	464.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-03-27						
As-Generated Volumes				Final Form Volumes		
ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036	
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	Projected	Total			
	72.8	0.0	72.8			

ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036	
RH Canister	124.6	0.0	0.0	0.0	0.0	124.6
Final Form	Stored	Projected	Total			
	124.6	0.0	124.6			

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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

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	0.18	0.18	0.18	Residues:	No		Pu-238	1.05E-01
	Aluminum-Base Metal/Alloys	0.18	0.18	0.18	Asbestos:	No		Pu-239	4.24E-02
	Other Metal/Alloys	0.18	0.18	0.18	PCBs:	No			
	Other Inorganic Materials	0.18	0.18	0.18	Source:	N/A			
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-03-28													
As-Generated Volumes							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	Total
55 Gallon Drum	5.2	0.0	0.0	0.0	0.0	5.2	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	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	Stored	5.8	Projected	0.0	Total	5.8

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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

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	0.20	0.00	0.00	Residues:	No		Pu-238	5.22E-01
	Aluminum-Base Metal/Alloys	0.20	0.00	0.00	Asbestos:	No		Pu-239	6.05E+00
	Other Metal/Alloys	0.20	0.00	0.00	PCBs:	No		Pu-240	1.76E+00
	Other Inorganic Materials	0.20	0.00	0.00	Source:	N/A		Pu-241	3.56E+01
	Cellulosics	0.20	0.00	0.00				Pu-242	2.64E-04
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-03-30													
As-Generated Volumes							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
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
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
As-Generated	Stored	0.7	Projected	0.0	Total	0.7	Final Form	Stored	0.8	Projected	0.0	Total	0.8

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TWBIR ID: LA-TA-03-30

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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 contains containers not previously associated with an identified BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

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TWBIR ID: LA-TA-03-31

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	0.18	0.18	0.18	Residues:	No		Pu-238	1.05E-01
	Aluminum-Base Metal/Alloys	0.18	0.18	0.18	Asbestos:	No		Pu-239	4.24E-02
	Other Metal/Alloys	0.18	0.18	0.18	PCBs:	No			
	Other Inorganic Materials	0.18	0.18	0.18	Source:	N/A			
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-03-31													
As-Generated Volumes						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
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 0.2	Projected 0.0	Total 0.2			Final Form	Stored 0.2	Projected 0.0	Total 0.2				

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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

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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			
EPA Codes		Waste Material Parameters (kg/m3)			Final Waste Form Descriptors		TRUCON Codes		Final Form Radionuclides	

As-Generated
N/A

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		

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

TRUCON Codes	N/A
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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

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

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

As-Generated	Stored 157.0	Projected 0.0	Total 157.0
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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

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	8.70	0.00	0.00	Residues:	No		Pu-238	2.91E-06
	Aluminum-Base Metal/Alloys	0.10	0.00	0.00	Asbestos:	Yes		Pu-239	1.14E-05
	Other Metal/Alloys	0.10	0.00	0.00	PCBs:	No		Pu-240	1.51E-07
	Other Inorganic Materials	0.10	0.00	0.00	Source:	N/A		Pu-241	2.28E-06
	Cellulosics	2.40	0.00	0.00				Pu-242	8.70E-12
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-03-42													
As-Generated Volumes							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	Total
Crate	57.6	0.0	0.0	0.0	0.0	57.6	5'x5'x8' Box	300.0	0.0	0.0	0.0	0.0	300.0
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	Stored	300.0	Projected	0.0	Total	300.0

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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

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	2.90	0.00	0.00	Residues:	No		Am-241	4.74E-07
	Aluminum-Base Metal/Alloys	0.20	0.00	0.00	Asbestos:	Yes		Pu-238	4.21E-01
	Other Metal/Alloys	0.20	0.00	0.00	PCBs:	No		Pu-239	4.23E-03
	Other Inorganic Materials	3.20	0.00	0.00	Source:	N/A		Pu-240	1.30E-03
	Cellulosics	20.70	0.00	0.00				Pu-241	2.96E-02
	Rubber	4.80	0.00	0.00				Pu-242	2.41E-07
	Plastics	46.90	0.00	0.00				U-235	1.98E-08
	Solidified, Inorganic Matrix	0.00	0.00	0.00					
	Cement (Solidified)	0.00	0.00	0.00					
	Vitrified	0.00	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-21-06													
As-Generated Volumes						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
55 Gallon Drum	180.8	0.0	0.0	0.0	0.0	180.8	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	55 Gallon Drum/Overpack 30	44.7	0.0	0.0	0.0	0.0	44.7
Drum / 80-gallon	0.9	0.0	0.0	0.0	0.0	0.9	80 Gallon Drum	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	Stored	226.4	Projected	0.0	Total	226.4

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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

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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		
EPA Codes		Waste Material Parameters (kg/m3)			Final Waste Form Descriptors		TRUCON Codes		Final Form Radionuclides

As-Generated
N/A

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		

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

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				Final Form Volumes											
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total		
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036			
55 Gallon Drum & Pit	179.5	0.0	0.0	0.0	0.0	179.5	55 Gallon Drum	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	55 Gallon Drum/Overpack 15	1.7	0.0	0.0	0.0	0.0	1.7		
Drum / 30-gallon	0.2	0.0	0.0	0.0	0.0	0.2	55 Gallon Drum/Overpack 30	65.7	0.0	0.0	0.0	0.0	65.7		
Drum / 30-gallon / Pit	35.5	0.0	0.0	0.0	0.0	35.5	85 Gallon Drum	1.9	0.0	0.0	0.0	0.0	1.9		
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		
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		Stored	263.9	Projected	0.0	Total	263.9

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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 contains containers not previously associated with an identified BIR WS

Acceptance Comments N/A

Final Form Comments N/A

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	0.18	0.18	0.18	Residues:	No		Am-241	8.03E-02
	Aluminum-Base Metal/Alloys	0.18	0.18	0.18	Asbestos:	No		Pu-239	1.81E-02
	Other Metal/Alloys	0.18	0.18	0.18	PCBs:	No			
	Other Inorganic Materials	0.18	0.18	0.18	Source:	N/A			
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-21-13													
As-Generated Volumes						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
55 Gallon Drum	16.2	0.0	0.0	0.0	0.0	16.2	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	Stored 16.2	Projected 0.0	Total 16.2				

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TWBIR ID: LA-TA-21-13

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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

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TWBIR ID: LA-TA-21-14

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	1.15	1.15	1.15	Residues:	No		Am-241	1.19E-05
	Aluminum-Base Metal/Alloys	0.45	0.45	0.45	Asbestos:	No		Pu-238	1.17E+00
	Other Metal/Alloys	0.50	0.50	0.50	PCBs:	No		Pu-239	5.68E-01
	Other Inorganic Materials	0.18	0.18	1.15	Source:	N/A		Pu-240	6.64E-06
	Cellulosics	2.43	2.43	2.43				Pu-241	4.09E-04
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-21-14													
As-Generated Volumes						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
55 Gallon Drum	7.9	0.0	0.0	0.0	0.0	7.9	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	Stored 7.9	Projected 0.0	Total 7.9				

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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

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TWBIR ID: LA-TA-21-15

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	0.20	0.00	0.00	Residues:	No		Am-241	3.17E-04
	Aluminum-Base Metal/Alloys	0.20	0.00	0.00	Asbestos:	No		Pu-238	8.47E-03
	Other Metal/Alloys	0.20	0.00	0.00	PCBs:	No		Pu-239	3.92E-01
	Other Inorganic Materials	0.20	0.00	0.00	Source:	N/A		Pu-240	6.76E-02
	Cellulosics	0.20	0.00	0.00				Pu-241	1.02E+00
	Rubber	0.20	0.00	0.00				Pu-242	3.89E-06
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-21-15													
As-Generated Volumes							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
55 Gallon Drum	3.3	0.0	0.0	0.0	0.0	3.3	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	55 Gallon Drum/Overpack 30	0.2	0.0	0.0	0.0	0.0	0.2
As-Generated	Stored	3.4	Projected	0.0	Total	3.4	Final Form	Stored	3.5	Projected	0.0	Total	3.5

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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

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	0.10	0.00	0.00	Residues:	No		Am-241	1.38E-04
	Aluminum-Base Metal/Alloys	0.10	0.00	0.00	Asbestos:	No		Pu-238	6.54E-03
	Other Metal/Alloys	0.10	0.00	0.00	PCBs:	No		Pu-239	1.48E-01
	Other Inorganic Materials	0.10	0.00	0.00	Source:	N/A		Pu-240	3.55E-02
	Cellulosics	0.10	0.00	0.00				Pu-241	5.85E-01
	Rubber	0.10	0.00	0.00				Pu-242	3.03E-06
	Plastics	0.10	0.00	0.00				U-235	8.72E-07
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-21-16													
As-Generated Volumes							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 30 gallon	22.9	0.0	0.0	0.0	0.0	22.9	55 Gallon Drum	29.1	0.0	0.0	0.0	0.0	29.1
Drum / 55 gallon	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
Drum / 85 gallon	0.3	0.0	0.0	0.0	0.0	0.3	85 Gallon Drum	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	Stored	71.7	Projected	0.0	Total	71.7

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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

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TWBIR ID: LA-TA-21-40

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	52.70	0.00	0.00	Residues:	No		Pu-238	1.94E-03
	Aluminum-Base Metal/Alloys	1.00	0.00	0.00	Asbestos:	Yes		Pu-239	3.26E-04
	Other Metal/Alloys	0.70	0.00	0.00	PCBs:	No		Pu-240	3.63E-07
	Other Inorganic Materials	4.60	0.00	0.00	Source:	N/A		Pu-241	5.47E-06
	Cellulosics	15.30	0.00	0.00				Pu-242	2.09E-11
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-21-40													
As-Generated Volumes							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
crate	732.9	0.0	0.0	0.0	0.0	732.9		0.0	0.0	0.0	0.0	0.0	0.0
FRP Box	288.0	0.0	0.0	0.0	0.0	288.0	Standard Waste Box	1022.5	0.0	0.0	0.0	0.0	1022.5
As-Generated	Stored	1020.9	Projected	0.0	Total	1020.9	Final Form	Stored	1022.5	Projected	0.0	Total	1022.5

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TWBIR ID: LA-TA-21-40

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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

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TWBIR ID: LA-TA-21-41

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	0.80	0.00	0.00	Residues:	No		Pu-239	1.71E-02
	Aluminum-Base Metal/Alloys	0.30	0.00	0.00	Asbestos:	No			
	Other Metal/Alloys	0.30	0.00	0.00	PCBs:	No			
	Other Inorganic Materials	0.10	0.00	0.00	Source:	N/A			
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-21-41													
As-Generated Volumes							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	Total
crate	22.5	0.0	0.0	0.0	0.0	22.5		0.0	0.0	0.0	0.0	0.0	0.0
crate/pit	3.2	0.0	0.0	0.0	0.0	3.2	5'x5'x8' Box	39.6	0.0	0.0	0.0	0.0	39.6
FRP Box	1.6	0.0	0.0	0.0	0.0	1.6	Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9
As-Generated	Stored	27.3	Projected	0.0	Total	27.3	Final Form	Stored	41.5	Projected	0.0	Total	41.5

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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

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TWBIR ID: LA-TA-21-42

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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			
EPA Codes		Waste Material Parameters (kg/m3)			Final Waste Form Descriptors		TRUCON Codes		Final Form Radionuclides	

As-Generated
N/A

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		

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

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

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

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

As-Generated	Stored	597.9	Projected	0.0	Total	597.9
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Final Form	Stored	690.7	Projected	0.0	Total	690.7
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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

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TWBIR ID: LA-TA-21-43

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	0.20	0.00	0.00	Residues:	No		Am-241	1.89E-04
	Aluminum-Base Metal/Alloys	0.20	0.00	0.00	Asbestos:	No		Pu-238	8.92E-03
	Other Metal/Alloys	0.20	0.00	0.00	PCBs:	No		Pu-239	2.02E-01
	Other Inorganic Materials	0.20	0.00	0.00	Source:	N/A		Pu-240	4.85E-02
	Cellulosics	0.50	0.00	0.00				Pu-241	7.99E-01
	Rubber	0.30	0.00	0.00				Pu-242	4.14E-06
	Plastics	1.00	0.00	0.00				U-235	1.19E-06
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-21-43												
As-Generated Volumes				Final Form Volumes								
ContainerType	Stored End of CY 2001	Projected			Total	ContainerType	Stored End of CY 2001	Projected			Total	
		2002-2006	2007-2016	2017-2026				2027-2036	2002-2006	2007-2016		2017-2026
	0.0	0.0	0.0	0.0	0.0		447.1	0.0	0.0	0.0	0.0	447.1
Other/ Area T	2043.3	0.0	0.0	0.0	0.0	Standard Waste Box	2086.6	0.0	0.0	0.0	0.0	2086.6
Other/Pit	442.4	0.0	0.0	0.0	0.0							
Other/Pit 4 Area T	40.2	0.0	0.0	0.0	0.0							
As-Generated	Stored	2525.9	Projected	0.0	Total	2525.9						
							Stored	2533.7	Projected	0.0	Total	2533.7

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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

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TWBIR ID: LA-TA-21-44

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	0.80	0.00	0.00	Residues:	No		Pu-238	2.86E-02
	Aluminum-Base Metal/Alloys	0.30	0.00	0.00	Asbestos:	No		Pu-239	8.38E-01
	Other Metal/Alloys	0.40	0.00	0.00	PCBs:	No		Pu-240	2.24E-03
	Other Inorganic Materials	0.10	0.00	0.00	Source:	N/A		Pu-241	6.84E-02
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-21-44													
As-Generated Volumes							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Crate	79.0	0.0	0.0	0.0	0.0	79.0	5'x5'x8' Box	135.8	0.0	0.0	0.0	0.0	135.8
Crate/Pit	15.9	0.0	0.0	0.0	0.0	15.9	Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9
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	Stored	137.7	Projected	0.0	Total	137.7

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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

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	15.40	0.00	0.00	Residues:	No		Am-241	7.58E-02
	Aluminum-Base Metal/Alloys	3.10	0.00	0.00	Asbestos:	Yes		Cm-244	1.05E+02
	Other Metal/Alloys	2.60	0.00	0.00	PCBs:	No		Np-237	2.48E-05
	Other Inorganic Materials	4.80	0.00	0.00	Source:	N/A		Pu-238	2.71E-02
	Cellulosics	5.40	0.00	0.00				Pu-239	1.90E-01
	Rubber	2.70	0.00	0.00				Pu-240	5.07E-01
	Plastics	8.30	0.00	0.00				Pu-241	2.83E+00
	Solidified, Inorganic Matrix	0.10	0.00	0.00				Pu-242	2.70E-05
	Cement (Solidified)	0.00	0.00	0.00				U-233	3.39E-03
	Vitrified	0.00	0.00	0.00				U-236	1.85E-07
	Solidified, Organic Matrix	0.10	0.00	0.00				U-238	2.36E-04
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-48-01													
As-Generated Volumes							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
CB	0.0	0.0	0.0	0.0	0.0	0.0	55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
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	Stored	0.6	Projected	0.0	Total	0.6

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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

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TWBIR ID: LA-TA-49-01

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	112.70	0.00	0.00	Residues:	No		Am-241	6.08E-02
	Aluminum-Base Metal/Alloys	0.10	0.00	0.00	Asbestos:	Yes		Cm-244	8.45E+01
	Other Metal/Alloys	3.60	0.00	0.00	PCBs:	No		Np-237	1.99E-05
	Other Inorganic Materials	0.40	0.00	0.00	Source:	N/A		Pu-238	2.17E-02
	Cellulosics	0.40	0.00	0.00				Pu-239	1.52E-01
	Rubber	0.20	0.00	0.00				Pu-240	4.07E-01
	Plastics	3.50	0.00	0.00				Pu-241	2.27E+00
	Solidified, Inorganic Matrix	0.30	0.00	0.00				Pu-242	2.17E-05
	Cement (Solidified)	0.00	0.00	0.00				U-233	2.72E-03
	Vitrified	0.00	0.00	0.00				U-236	1.49E-07
	Solidified, Organic Matrix	0.10	0.00	0.00				U-238	1.90E-04
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-49-01													
As-Generated Volumes							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Crate	57.0	0.0	0.0	0.0	0.0	57.0	5'x5'x8' Box	96.2	0.0	0.0	0.0	0.0	96.2
As-Generated	Stored	57.0	Projected	0.0	Total	57.0	Final Form	Stored	96.2	Projected	0.0	Total	96.2

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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 contains containers not previously associated with an identified BIR WS

Acceptance Comments N/A

Final Form Comments N/A

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	0.18	0.18	0.18	Residues:	No		Am-241	3.17E-02
	Aluminum-Base Metal/Alloys	0.18	0.18	0.18	Asbestos:	No		Pu-238	1.27E-02
	Other Metal/Alloys	0.18	0.18	0.18	PCBs:	No		Pu-239	4.42E-02
	Other Inorganic Materials	0.18	0.18	0.18	Source:	N/A			
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-50-10													
As-Generated Volumes						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55 gallon	1.0	0.0	0.0	0.0	0.0	1.0	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	Stored 1.0	Projected 0.0	Total 1.0				

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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

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	3.10	0.00	0.00	Residues:	No		Am-241	1.55E-03
	Aluminum-Base Metal/Alloys	0.80	0.00	0.00	Asbestos:	Yes		Pu-238	2.32E-03
	Other Metal/Alloys	0.50	0.00	0.00	PCBs:	No		Pu-239	5.44E-02
	Other Inorganic Materials	3.60	0.00	0.00	Source:	N/A		Pu-240	1.22E-02
	Cellulosics	6.60	0.00	0.00				Pu-241	1.85E-01
	Rubber	3.00	0.00	0.00				Pu-242	7.03E-07
	Plastics	11.20	0.00	0.00				U-238	2.13E-02
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-50-11													
As-Generated Volumes							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55 gallon	2.9	0.0	0.0	0.0	0.0	2.9	55 Gallon Drum	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	5'x5'x8' Box	5.7	0.0	0.0	0.0	0.0	5.7
As-Generated	Stored	5.3	Projected	0.0	Total	5.3	Final Form	Stored	8.6	Projected	0.0	Total	8.6

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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

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TWBIR ID: LA-TA-50-15

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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		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	No	
Asbestos:	Yes	
PCBs:	No	
Source:	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						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
55 Gallon Drum	2.5	0.0	0.0	0.0	0.0	2.5	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	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	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	Stored	159.1	Projected	0.0	Total	159.1

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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

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	0.18	0.18	0.18	Residues:	No		Am-241	8.57E-02
	Aluminum-Base Metal/Alloys	0.18	0.18	0.18	Asbestos:	No		Am-243	3.94E-13
	Other Metal/Alloys	0.18	0.18	0.18	PCBs:	No		Cs-137	4.01E-05
	Other Inorganic Materials	0.18	0.18	0.18	Source:	N/A		Np-237	3.53E-09
	Cellulosics	0.18	0.18	0.18				Pu-238	8.34E-03
	Rubber	0.18	0.18	0.18				Pu-239	8.43E-02
	Plastics	0.20	0.18	0.69				Pu-240	1.99E-06
	Solidified, Inorganic Matrix	723.21	133.36	905.54				Pu-241	4.69E-04
	Cement (Solidified)	0.00	0.00	0.00				Pu-242	5.01E-10
	Vitrified	0.00	0.00	0.00				U-232	6.20E-09
	Solidified, Organic Matrix	85.91	0.18	672.77				U-233	2.41E-06
	Soils	11.61	0.18	89.86				U-234	1.63E-06
	Packaging Material, Steel	130.64						U-235	7.63E-07
	Packaging Material, Plastic	36.91							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-50-17													
As-Generated Volumes							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55 gallon	70.3	0.0	0.0	0.0	0.0	138.9	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	Drum / 85-gallon	1.3	0.0	0.0	0.0	0.0	1.3
As-Generated	Stored	71.6	Projected	68.6	Total	140.2	Final Form	Stored	71.6	Projected	68.6	Total	140.2

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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

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TWBIR ID: LA-TA-50-18

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	0.18	0.18	0.18	Residues:	No		Am-241	1.14E-02
	Aluminum-Base Metal/Alloys	0.18	0.18	0.18	Asbestos:	No		Pu-238	2.66E-03
	Other Metal/Alloys	0.18	0.18	0.18	PCBs:	No		Pu-239	3.02E-02
	Other Inorganic Materials	0.18	0.18	0.18	Source:	N/A		Pu-240	5.46E-08
	Cellulosics	0.18	0.18	0.18				Pu-241	5.41E-05
	Rubber	0.18	0.18	0.18				Pu-242	1.64E-11
	Plastics	0.22	0.18	0.95				U-233	2.09E-06
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-50-18													
As-Generated Volumes							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
55 Gallon Drum	92.4	0.0	0.0	0.0	0.0	92.4	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	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	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	Stored	98.4	Projected	0.0	Total	98.4

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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

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	0.23	0.00	70.71	Residues:	No		Am-241	3.02E-04
	Aluminum-Base Metal/Alloys	0.19	0.00	12.15	Asbestos:	No		Cs-137	6.32E-13
	Other Metal/Alloys	0.18	0.00	9.58	PCBs:	No		Np-237	3.31E-10
	Other Inorganic Materials	0.21	0.00	29.52	Source:	N/A		Pu-238	9.94E-05
	Cellulosics	0.48	0.00	161.20				Pu-239	3.36E-04
	Rubber	0.34	0.00	77.05				Pu-240	3.90E-06
	Plastics	1.05	0.00	264.87				Pu-241	5.89E-05
	Solidified, Inorganic Matrix	173.85	0.00	690.66				Pu-242	2.24E-10
	Cement (Solidified)	0.00	0.00	0.00				Ra-226	1.15E-12
	Vitrified	0.00	0.00	0.00				U-234	2.24E-08
	Solidified, Organic Matrix	339.60	0.00	690.98				U-235	2.70E-09
	Soils	48.86	0.00	92.29				U-238	1.29E-11
	Packaging Material, Steel	130.30							
	Packaging Material, Plastic	36.82							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-50-19													
As-Generated Volumes							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55 gallon	1158.6	0.0	0.0	0.0	0.0	1158.6	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 / 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	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	Stored	1179.8	Projected	0.0	Total	1179.8

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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 contains containers not previously associated with an identified BIR WS

Acceptance Comments N/A

Final Form Comments N/A

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	1.15	1.15	1.15	Residues:	No		Am-241	1.56E-02
	Aluminum-Base Metal/Alloys	0.45	0.45	0.45	Asbestos:	No		Pu-239	1.56E-02
	Other Metal/Alloys	0.50	0.50	0.50	PCBs:	No			
	Other Inorganic Materials	0.18	0.18	1.15	Source:	N/A			
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-50-20													
As-Generated Volumes						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55 gallon	0.6	0.0	0.0	0.0	0.0	0.6	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	Stored 0.6	Projected 0.0	Total 0.6				

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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

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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			
EPA Codes		Waste Material Parameters (kg/m3)			Final Waste Form Descriptors		TRUCON Codes		Final Form Radionuclides	

As-Generated
N/A

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		

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

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							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Crate	0.6	0.0	0.0	0.0	0.0	0.6	5'x5'x8' Box	22.6	0.0	0.0	0.0	0.0	22.6
Crate/Pit	15.3	0.0	0.0	0.0	0.0	15.3	Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9
As-Generated	Stored 15.9	Projected 0.0	Total 15.9					Final Form	Stored 24.5	Projected 0.0	Total 24.5		

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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

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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		
EPA Codes		Waste Material Parameters (kg/m3)			Final Waste Form Descriptors		TRUCON Codes		Final Form Radionuclides

As-Generated
N/A

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		

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

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						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
FRP Box	34.3	0.0	0.0	0.0	0.0	34.3	Standard Waste Box	35.9	0.0	0.0	0.0	0.0	35.9
As-Generated	Stored 34.3	Projected 0.0	Total 34.3			Final Form	Stored 35.9	Projected 0.0	Total 35.9				

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TWBIR ID: LA-TA-50-41

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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

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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		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	No	
Asbestos:	Yes	
PCBs:	No	
Source:	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							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
55 Gallon Drum	875.9	0.0	0.0	0.0	0.0	1974.1	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	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	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	Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9
As-Generated	Stored	927.2	Projected	1098.2	Total	2025.4	Final Form	Stored	927.2	Projected	1098.2	Total	2025.4

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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 contains containers not previously associated with an identified BIR WS

Acceptance Comments N/A

Final Form Comments N/A

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	6.37	0.18	28.19	Residues:	No		Am-241	9.19E-02
	Aluminum-Base Metal/Alloys	0.18	0.18	0.18	Asbestos:	Yes		Np-237	2.72E-05
	Other Metal/Alloys	0.38	0.18	2.65	PCBs:	No		Pu-238	3.33E-02
	Other Inorganic Materials	2.75	0.18	25.39	Source:	N/A		Pu-239	1.01E+00
	Cellulosics	18.97	0.18	132.35				Pu-240	2.45E-01
	Rubber	0.89	0.18	3.99				Pu-241	3.94E+00
	Plastics	78.42	5.33	206.83				Pu-242	1.82E-05
	Solidified, Inorganic Matrix	0.18	0.18	0.18				U-234	1.50E-04
	Cement (Solidified)	0.00	0.00	0.00				U-235	5.71E-06
	Vitrified	0.00	0.00	0.00				U-236	8.11E-07
	Solidified, Organic Matrix	0.18	0.18	0.18				U-238	6.46E-07
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-20													
As-Generated Volumes						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55 gallon	7.5	0.0	0.0	0.0	0.0	302.6	55 Gallon Drum	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	Stored 7.5	Projected 295.2	Total 302.6			

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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

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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			
EPA Codes		Waste Material Parameters (kg/m3)			Final Waste Form Descriptors		TRUCON Codes		Final Form Radionuclides	

As-Generated
D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D035, D038, D039, D040, F001, F002, F003, F005, P120

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		

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

TRUCON Codes	N/A
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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						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55 gallon	57.4	0.0	0.0	0.0	0.0	57.4	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	Standard Waste Box	41.6	0.0	0.0	0.0	0.0	41.6
As-Generated	Stored 99.0	Projected 0.0	Total 99.0						Final Form	Stored 99.0	Projected 0.0	Total 99.0	

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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 contains containers not previously associated with an identified BIR WS

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: LA-TA-55-22

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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			
EPA Codes		Waste Material Parameters (kg/m3)			Final Waste Form Descriptors		TRUCON Codes		Final Form Radionuclides	

As-Generated
N/A

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		

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

TRUCON Codes	N/A
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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

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

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

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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

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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		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	No	
Asbestos:	Yes	
PCBs:	No	
Source:	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						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55 gallon	12.5	0.0	0.0	0.0	0.0	12.5	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	Stored 12.5	Projected 0.0	Total 12.5				

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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 contains containers not previously associated with an identified BIR WS

Acceptance Comments N/A

Final Form Comments N/A

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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		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	No	
Asbestos:	Yes	
PCBs:	No	
Source:	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						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55 gallon	1.2	0.0	0.0	0.0	0.0	1.2	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	Stored 1.2	Projected 0.0	Total 1.2				

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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 contains containers not previously associated with an identified BIR WS

Acceptance Comments N/A

Final Form Comments N/A

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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	Waste Material Parameters (kg/m3)			Final Waste Form Descriptors	TRUCON Codes	Final Form Radionuclides		
As-Generated	Material Parameter	Average	Lower	Upper	Category:	N/A	Isotope	Typical Concentration (Ci/m3)
D004, D005, D006, D007, D008, D009, D010, D011, D019, D022, D035, D039, D040, F001, F002, F003, F005, P120	Iron-Base Metal/Alloys	14.79	14.79	14.79	Residues:	No	Am-241	1.21E-01
	Aluminum-Base Metal/Alloys	0.18	0.18	0.18	Asbestos:	Yes	Pu-238	4.32E-02
	Other Metal/Alloys	0.18	0.18	0.18	PCBs:	No	Pu-239	1.26E+00
	Other Inorganic Materials	0.18	0.18	14.80	Source:	N/A	Pu-240	2.95E-01
	Cellulosics	4.09	4.09	4.09			Pu-241	4.56E+00
	Rubber	0.18	0.18	0.18			Pu-242	1.34E-04
	Plastics	3.57	3.57	3.57			U-235	1.42E-06
	Solidified, Inorganic Matrix	0.18	0.18	0.18			U-238	1.41E-08
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-25													
As-Generated Volumes						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55 gallon	3.7	0.0	0.0	0.0	0.0	3.7	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	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	Stored 22.6	Projected 0.0	Total 22.6				

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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 contains containers not previously associated with an identified BIR WS

Acceptance Comments N/A

Final Form Comments N/A

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:		N/A	Isotope	Typical Concentration (Ci/m3)
D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D035, D038, D039, D040, F001, F002, F003, F005, P120	Iron-Base Metal/Alloys	38.24	0.00	0.00	Residues:	No		Am-241	2.50E-01
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	Yes		Pu-238	1.46E-01
	Other Metal/Alloys	335.43	0.00	0.00	PCBs:	No		Pu-239	2.33E+00
	Other Inorganic Materials	95.47	0.00	0.00	Source:	N/A		Pu-240	5.54E-01
	Cellulosics	12.89	0.00	0.00				Pu-241	9.40E+00
	Rubber	4.30	0.00	0.00				Pu-242	2.82E-03
	Plastics	20.00	0.00	0.00				Pu-244	1.84E-09
	Solidified, Inorganic Matrix	0.00	0.00	0.00				U-235	1.63E-06
	Cement (Solidified)	0.00	0.00	0.00				U-238	2.56E-09
	Vitrified	0.00	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-28													
As-Generated Volumes							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	Total
Drum / 55 gallon	3.7	0.0	0.0	0.0	0.0	3.7	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	Stored 3.7	Projected 0.0	Total 3.7			

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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 contains containers not previously associated with an identified BIR WS

Acceptance Comments N/A

Final Form Comments N/A

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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		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	No	
Asbestos:	Yes	
PCBs:	No	
Source:	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							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	Total
55 Gallon Drum	1029.2	0.0	0.0	0.0	0.0	2017.6	55 Gallon Drum	1088.0	0.0	0.0	0.0	0.0	2076.5
Drum / 85-gallon	27.0	0.0	0.0	0.0	0.0	27.0	85 Gallon Drum	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	Standard Waste Box	113.4	0.0	0.0	0.0	0.0	113.4
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	Stored	1228.5	Projected	988.4	Total	2216.9

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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 contains containers not previously associated with an identified BIR WS

Acceptance Comments N/A

Final Form Comments N/A

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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		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	No	
Asbestos:	No	
PCBs:	No	
Source:	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						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55 gallon	4.8	0.0	0.0	0.0	0.0	4.8	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	Stored 4.8	Projected 0.0	Total 4.8				

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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 contains containers not previously associated with an identified BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

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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	TRUCON Codes	N/A
Residues:	No		
Asbestos:	No		
PCBs:	No		
Source:	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							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55 gallon	6.7	0.0	0.0	0.0	0.0	6.7	55 Gallon Drum	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	Stored 6.7	Projected 0.0			Total 6.7	

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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 contains containers not previously associated with an identified BIR WS

Acceptance Comments N/A

Final Form Comments N/A

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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		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	No	
Asbestos:	No	
PCBs:	No	
Source:	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							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	Total
Drum / 55 gallon	49.7	0.0	0.0	0.0	0.0	152.7	55 Gallon Drum	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	Drum / 85-gallon	1.3	0.0	0.0	0.0	0.0	1.3
As-Generated	Stored 51.0	Projected 103.0	Total 154.0				Final Form	Stored 51.0	Projected 103.0	Total 154.0			

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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

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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	Waste Material Parameters (kg/m3)			
As-Generated	Material Parameter	Average	Lower	Upper
D004, D005, D006, D007, D008, D009, D011, D019, D021, D022, D035, D039, D040, F001, F002, F003, F005	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	TRUCON Codes
Category: Defense TRU Waste	N/A
Residues: No	
Asbestos: No	
PCBs: No	
Source: 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						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55 gallon	401.2	0.0	0.0	0.0	0.0	572.8	55 Gallon Drum	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	85 Gallon Drum	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	Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9
As-Generated	Stored 484.9	Projected 171.6	Total 656.6			Final Form	Stored 486.5	Projected 171.6	Total 658.1				

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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 contains containers not previously associated with an identified BIR WS

Acceptance Comments N/A

Final Form Comments N/A

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	0.00	0.00	0.00	Residues:	No		Am-241	2.35E+00
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	No		Pu-238	7.46E-01
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	No		Pu-239	2.61E+01
	Other Inorganic Materials	0.00	0.00	0.00	Source:	N/A		Pu-240	5.92E+00
	Cellulosics	0.00	0.00	0.00				Pu-241	8.84E+01
	Rubber	0.00	0.00	0.00				Pu-242	3.49E-04
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-39													
As-Generated Volumes						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
55 Gallon Drum	2.9	0.0	0.0	0.0	0.0	2.9	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	Stored 2.9	Projected 0.0	Total 2.9				

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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

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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		
EPA Codes		Waste Material Parameters (kg/m3)			Final Waste Form Descriptors		TRUCON Codes		Final Form Radionuclides

As-Generated
D004, D005, D006, D007, D008, D009, D011, D018, D019, D021, D022, D035, D038, D039, D040, F002, F003, F005

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		

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

TRUCON Codes	N/A
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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						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
55 Gallon Drum	8.3	1.7	4.2	4.2	3.7	22.0	55 Gallon Drum	8.3	0.0	0.0	0.0	0.0	22.0
Drum / 85-gallon	4.2	0.0	0.0	0.0	0.0	4.2	Drum / 85-gallon	6.4	0.0	0.0	0.0	0.0	6.4
As-Generated	Stored	12.5	Projected	13.7	Total	26.2	Final Form	Stored	14.8	Projected	13.7	Total	28.5

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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 contains containers not previously associated with an identified BIR WS

Acceptance Comments N/A

Final Form Comments N/A

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	92.64	0.18	524.46	Residues:	No		Am-241	7.20E-04
	Aluminum-Base Metal/Alloys	0.51	0.18	20.27	Asbestos:	Yes		Pu-238	4.53E+00
	Other Metal/Alloys	0.21	0.18	2.96	PCBs:	No		Pu-239	2.19E-03
	Other Inorganic Materials	0.34	0.18	7.90	Source:	N/A		Pu-240	7.72E-04
	Cellulosics	20.17	0.18	151.12				Pu-241	4.17E-02
	Rubber	0.62	0.18	10.34				Pu-242	5.15E-07
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-43													
As-Generated Volumes						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55 gallon	64.9	0.0	0.0	0.0	0.0	64.9	55 Gallon Drum	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	Stored 64.9	Projected 0.0	Total 64.9				

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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 contains containers not previously associated with an identified BIR WS

Acceptance Comments N/A

Final Form Comments N/A

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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	Waste Material Parameters (kg/m3)			Final Waste Form Descriptors	TRUCON Codes	Final Form Radionuclides		
As-Generated D005, D006, D007, D008, D009, D011, D022, D035, D040, F001, F002, F005	Material Parameter	Average	Lower	Upper	Category: Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
	Iron-Base Metal/Alloys	12.10	0.00	0.00	Residues: No		Am-241	2.94E-03
	Aluminum-Base Metal/Alloys	1.30	0.00	0.00	Asbestos: Yes		Pu-238	3.37E+00
	Other Metal/Alloys	1.10	0.00	0.00	PCBs: No		Pu-239	1.14E-02
	Other Inorganic Materials	8.30	0.00	0.00	Source: N/A		Pu-240	3.19E-03
	Cellulosics	9.60	0.00	0.00			Pu-241	7.16E-02
	Rubber	4.40	0.00	0.00			Pu-242	9.94E-07
	Plastics	17.70	0.00	0.00			Pu-244	2.10E-13
	Solidified, Inorganic Matrix	2.70	0.00	0.00			U-234	7.72E-08
	Cement (Solidified)	0.00	0.00	0.00			U-235	2.94E-09
	Vitrified	0.00	0.00	0.00			U-236	2.23E-10
	Solidified, Organic Matrix	1.70	0.00	0.00			U-238	6.83E-08
	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						

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-44													
As-Generated Volumes						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 30 gallon	19.9	0.0	0.0	0.0	0.0	19.9	55 Gallon Drum	187.4	0.0	0.0	0.0	0.0	187.4
Drum / 55 gallon	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
Drum / 80 gallon	1.2	0.0	0.0	0.0	0.0	1.2	80-Gallon Drum	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	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	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	Stored	230.7	Projected	0.0	Total	230.7

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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 contains containers not previously associated with an identified BIR WS

Acceptance Comments N/A

Final Form Comments N/A

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:		N/A	Isotope	Typical Concentration (Ci/m3)
D005, D006, D007, D008, D009, D011	Iron-Base Metal/Alloys	0.18	0.18	0.18	Residues:	No		Am-241	1.28E+02
	Aluminum-Base Metal/Alloys	0.18	0.18	0.18	Asbestos:	No		Pu-238	9.68E+01
	Other Metal/Alloys	0.18	0.18	0.18	PCBs:	No		Pu-239	5.45E+02
	Other Inorganic Materials	0.18	0.18	0.18	Source:	N/A		Pu-240	2.05E+02
	Cellulosics	0.18	0.18	0.18				Pu-241	4.82E+03
	Rubber	0.18	0.18	0.18				Pu-242	4.02E-02
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-48													
As-Generated Volumes						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55 gallon	2.1	0.0	0.0	0.0	0.0	15.8	55 Gallon Drum	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	Stored 2.1	Projected 13.7	Total 15.8			

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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 contains containers not previously associated with an identified BIR WS

Acceptance Comments N/A

Final Form Comments N/A

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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	Waste Material Parameters (kg/m3)			
As-Generated	Material Parameter	Average	Lower	Upper
D005, D006, D007, D008, D009, D011	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	TRUCON Codes
Category: Defense TRU Waste	N/A
Residues: No	
Asbestos: No	
PCBs: No	
Source: 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							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
55 Gallon Drum	15.6	0.0	0.0	0.0	0.0	15.6	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	55 Gallon Drum/Overpack 30	2.7	0.0	0.0	0.0	0.0	2.7
As-Generated	Stored 17.1	Projected 0.0	Total 17.1			Final Form	Stored 18.3	Projected 0.0	Total 18.3				

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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 contains containers not previously associated with an identified BIR WS
Acceptance Comments	N/A
Final Form Comments	N/A

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
D005, D006, D007, D008, D009, D011, D019, D021, D022, D039, F002, F003	Iron-Base Metal/Alloys	0.40	0.18	0.90	Residues:	No		Am-241	2.73E-01
	Aluminum-Base Metal/Alloys	0.18	0.18	0.18	Asbestos:	No		Pu-238	3.77E-02
	Other Metal/Alloys	0.21	0.18	0.32	PCBs:	No		Pu-239	1.22E+00
	Other Inorganic Materials	3.72	0.18	8.48	Source:	N/A		Pu-240	2.87E-01
	Cellulosics	0.18	0.18	0.18				Pu-241	4.42E+00
	Rubber	0.18	0.18	0.18				Pu-242	4.89E-05
	Plastics	0.35	0.18	1.01				Pu-244	4.19E-11
	Solidified, Inorganic Matrix	127.04	0.18	412.44				U-234	5.06E-08
	Cement (Solidified)	0.00	0.00	0.00				U-235	1.78E-09
	Vitrified	0.00	0.00	0.00				U-236	2.14E-10
	Solidified, Organic Matrix	162.88	0.18	300.47				U-238	1.46E-11
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-53													
As-Generated Volumes							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
55 Gallon Drum	60.9	8.3	20.8	20.8	18.7	129.6	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	Drum / 85-gallon	10.6	0.0	0.0	0.0	0.0	10.6
As-Generated	Stored	71.6	Projected	68.6	Total	140.2	Final Form	Stored	71.6	Projected	68.6	Total	140.2

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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

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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		
EPA Codes		Waste Material Parameters (kg/m3)			Final Waste Form Descriptors		TRUCON Codes		Final Form Radionuclides

As-Generated
N/A

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		

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

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						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
55 Gallon Drum	33.7	52.4	131.0	131.0	117.9	466.1	55 Gallon Drum	33.7	0.0	0.0	0.0	0.0	466.1
Other	1.5	0.0	0.0	0.0	0.0	1.5	Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9
As-Generated	Stored	35.2	Projected	432.4	Total	467.6	Final Form	Stored	35.6	Projected	432.4	Total	468.0

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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 contains containers not previously associated with an identified BIR WS

Acceptance Comments N/A

Final Form Comments N/A

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	143.00	0.00	0.00	Residues:	No		Am-241	2.80E-05
	Aluminum-Base Metal/Alloys	0.10	0.00	0.00	Asbestos:	Yes		Np-237	1.10E-07
	Other Metal/Alloys	4.60	0.00	0.00	PCBs:	No		Pu-238	3.68E-04
	Other Inorganic Materials	0.50	0.00	0.00	Source:	N/A		Pu-239	3.41E-04
	Cellulosics	0.50	0.00	0.00				Pu-240	1.22E-04
	Rubber	0.20	0.00	0.00				Pu-241	6.79E-03
	Plastics	4.40	0.00	0.00				Pu-242	1.22E-05
	Solidified, Inorganic Matrix	0.40	0.00	0.00				Pu-244	1.16E-11
	Cement (Solidified)	0.00	0.00	0.00				U-238	1.05E-11
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-60													
As-Generated Volumes						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Crate	62.4	0.0	0.0	0.0	0.0	62.4	5'x5'x8' Box	209.4	0.0	0.0	0.0	0.0	209.4
FRP Box	1.1	0.0	0.0	0.0	0.0	1.1	Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9
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	Stored	211.3	Projected	0.0	Total	211.3

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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

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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		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	No	
Asbestos:	Yes	
PCBs:	No	
Source:	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							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	Total
Crate	120.1	0.0	0.0	0.0	0.0	120.1	5'x5'x8' Box	175.5	0.0	0.0	0.0	0.0	175.5
FRP Box	15.0	0.0	0.0	0.0	0.0	15.0	Standard Waste Box	51.0	0.0	0.0	0.0	0.0	51.0
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	Stored	226.5	Projected	0.0	Total	226.5

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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

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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	Waste Material Parameters (kg/m3)			Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:		Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	29.90	0.00	0.00	Defense TRU Waste	N/A	Pu-238	4.59E-05
	Aluminum-Base Metal/Alloys	0.50	0.00	0.00	Residues:	No	Pu-239	3.17E-04
	Other Metal/Alloys	0.40	0.00	0.00	Asbestos:	Yes	Pu-240	1.53E-04
	Other Inorganic Materials	2.60	0.00	0.00	PCBs:	No	Pu-241	4.86E-03
	Cellulosics	8.60	0.00	0.00	Source:	N/A	Pu-242	5.03E-08
	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						

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-62													
As-Generated Volumes						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Crate	41.6	0.0	0.0	0.0	0.0	41.6	5'x5'x8' Box	73.6	0.0	0.0	0.0	0.0	73.6
As-Generated	Stored 41.6	Projected 0.0	Total 41.6			Final Form	Stored 73.6	Projected 0.0	Total 73.6				

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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

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	8.30	0.00	0.00	Residues:	No		Pu-238	3.86E-04
	Aluminum-Base Metal/Alloys	0.10	0.00	0.00	Asbestos:	Yes		Pu-239	1.32E-02
	Other Metal/Alloys	0.10	0.00	0.00	PCBs:	No		Pu-240	3.08E-03
	Other Inorganic Materials	0.10	0.00	0.00	Source:	N/A		Pu-241	4.64E-02
	Cellulosics	2.30	0.00	0.00				Pu-242	1.77E-07
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LA-TA-55-63													
As-Generated Volumes						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Crate	3.2	0.0	0.0	0.0	0.0	3.2	5'x5'x8' Box	5.7	0.0	0.0	0.0	0.0	5.7
As-Generated	Stored 3.2	Projected 0.0	Total 3.2			Final Form	Stored 5.7	Projected 0.0	Total 5.7				

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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

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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	TRUCON Codes
Category: Defense TRU Waste	LL 116A
Residues: No	
Asbestos: Yes	
PCBs: No	
Source: R&D/R&D Laboratory Waste	

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						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55 gallon	23.9	0.8	2.1	1.9	0.0	28.7	55 Gallon Drum	23.9	0.0	0.0	0.0	0.0	28.7
As-Generated	Stored 23.9	Projected 4.8	Total 28.7				Final Form	Stored 23.9	Projected 4.8	Total 28.7			

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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.

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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		TRUCON Codes
Category:	Defense TRU Waste	LL 111A
Residues:	No	LL 113A
Asbestos:	No	
PCBs:	No	
Source:	R&D/R&D Laboratory Waste	

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						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55-gallon	13.7	32.3	75.5	67.4	0.0	188.9	55 Gallon Drum	13.7	0.0	0.0	0.0	0.0	188.9
As-Generated	Stored 13.7	Projected 175.1	Total 188.9				Final Form	Stored 13.7	Projected 175.1	Total 188.9			

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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.

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	LL 116A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	6.82	0.00	0.00	Residues:	No		Am-241	1.79E+00
	Aluminum-Base Metal/Alloys	5.00	0.00	0.00	Asbestos:	No		Pu-238	3.20E-01
	Other Metal/Alloys	2.00	0.00	0.00	PCBs:	No		Pu-239	2.49E+00
	Other Inorganic Materials	1.00	0.00	0.00	Source:	R&D/R&D Laboratory Waste		Pu-240	1.03E+00
	Cellulosics	99.70	0.00	0.00				Pu-241	3.16E+01
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : LL-T002													
As-Generated Volumes							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Box / Misc.	7.7	0.0	0.0	0.0	0.0	7.7	55 Gallon Drum	74.0	0.0	0.0	0.0	0.0	1018.4
Box / Misc. 2	4.6	0.0	0.0	0.0	0.0	4.6	5x5x8 Box	5.7	0.0	0.0	0.0	0.0	5.7
Drum / 55 gallon	74.0	174.4	406.8	363.2	0.0	1018.4	Standard Waste Box	9.4	0.0	0.0	0.0	0.0	9.4
As-Generated	Stored	86.3	Projected	944.3	Total	1030.6	Final Form	Stored	89.2	Projected	944.3	Total	1033.5

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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.

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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		TRUCON Codes
Category:	Defense TRU Waste	LL 125A
Residues:	No	
Asbestos:	No	
PCBs:	No	
Source:	R&D/R&D Laboratory Waste	

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						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55 gallon	4.6	10.6	25.1	22.5	0.0	62.8	55 Gallon Drum	4.6	0.0	0.0	0.0	0.0	62.8
Standard Waste Box /	13.3	76.0	190.0	171.0	0.0	450.3	Standard Waste Box	13.3	0.0	0.0	0.0	0.0	450.3
As-Generated	Stored 17.9	Projected 495.2	Total 513.1				Final Form	Stored 17.9	Projected 495.2	Total 513.1			

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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.

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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		TRUCON Codes
Category:	Defense TRU Waste	LL 124A
Residues:	No	
Asbestos:	No	
PCBs:	No	
Source:	R&D/R&D Laboratory Waste	

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						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55-gallon	1.2	2.8	6.3	5.6	0.0	16.0	55 Gallon Drum	1.2	0.0	0.0	0.0	0.0	16.0
As-Generated	Stored 1.2	Projected 14.8	Total 16.0										
Final Form	Stored 1.2	Projected 14.8	Total 16.0										

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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.

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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	TRUCON Codes
Category: Defense TRU Waste	Unassigned
Residues: No	
Asbestos: Yes	
PCBs: No	
Source: R&D/R&D Laboratory Waste	

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				Total
		2002-2006	2007-2016	2017-2026	2027-2036	
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

Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036	
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
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As-Generated	Stored	142.5	Projected	456.6	Total	599.1
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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.

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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		TRUCON Codes
Category:	Defense TRU Waste	LL 125A
Residues:	No	
Asbestos:	No	
PCBs:	No	
Source:	R&D/R&D Laboratory Waste	

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							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	Total
Drum / 55 gallon	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
Standard Waste Box /	1.9	0.0	0.0	0.0	0.0	1.9	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	Stored 2.1	Projected 0.0	Total 2.1			

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TWBIR ID: LL-W018

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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.

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TWBIR ID: LL-W019

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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		TRUCON Codes
Category:	Defense TRU Waste	LL 111A
Residues:	No	
Asbestos:	No	
PCBs:	No	
Source:	R&D/R&D Laboratory Waste	

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						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55-gallon	8.1	0.8	2.1	1.9	0.0	12.9	55 Gallon Drum	8.1	0.0	0.0	0.0	0.0	12.9
As-Generated	Stored 8.1	Projected 4.8	Total 12.9				Final Form	Stored 8.1	Projected 4.8	Total 12.9			

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TWBIR ID: LL-W019

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.

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TWBIR ID: LL-W034

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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		TRUCON Codes
Category:	Defense TRU Waste	LL119
Residues:	No	
Asbestos:	Yes	
PCBs:	No	
Source:	R&D/R&D Laboratory Waste	

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							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	Total
Box / Rogers Chem. #4	5.6	0.0	0.0	0.0	0.0	5.6	55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Box / Rogers Chem. #5	8.0	0.0	0.0	0.0	0.0	8.0	5X5X8 Box	11.3	0.0	0.0	0.0	0.0	11.3
Capital Indus. Box #2	4.6	0.0	0.0	0.0	0.0	4.6	Standard Waste Box	9.4	0.0	0.0	0.0	0.0	9.4
Drum / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2							
As-Generated	Stored 18.4	Projected 0.0	Total 18.4				Final Form	Stored 21.0	Projected 0.0	Total 21.0			

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TWBIR ID: LL-W034

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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

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TWBIR ID: MC-W001

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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	190.24	0.00	0.00	Residues:	No		Am-241	6.21E-02
	Aluminum-Base Metal/Alloys	0.18	0.00	0.00	Asbestos:	No		Pu-239	2.43E-02
	Other Metal/Alloys	6.07	0.00	0.00	PCBs:	No		Pu-241	1.11E-01
	Other Inorganic Materials	0.66	0.00	0.00	Source:	N/A			
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : MC-W001													
As-Generated Volumes						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
55 Gallon Drum	2.5	0.0	0.0	0.0	0.0	2.5	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	Stored 2.5	Projected 0.0	Total 2.5				

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TWBIR ID: **MC-W001**

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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

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TWBIR ID: **MU-W002**

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

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

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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 of 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

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

- 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

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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	TBD	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	20.00	0.00	30.00	Residues:	No		Am-241	1.35E-01
	Aluminum-Base Metal/Alloys	3.00	0.00	30.00	Asbestos:	No		Pu-238	7.02E-02
	Other Metal/Alloys	1.00	0.00	30.00	PCBs:	No		Pu-239	9.92E-02
	Other Inorganic Materials	1.00	0.00	5.00	Source:	R&D/R&D Laboratory Waste		Pu-240	8.02E-02
	Cellulosics	1.00	0.00	5.00				Pu-241	2.45E+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							

Waste Volume Detail (Cubic meters) for TWBIR ID : NT-JAS-01													
As-Generated Volumes						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Standard Waste Box	0.0	90.7	226.8	136.1	0.0	453.6	Standard Waste Box	0.0	0.0	0.0	0.0	0.0	453.6
As-Generated	Stored	0.0	Projected	453.6	Total	453.6	Final Form	Stored	0.0	Projected	453.6	Total	453.6

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TWBIR ID: NT-JAS-01

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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

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TWBIR ID: NT-W001

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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	TRUCON Codes	11A; 116A; 211A; 4
Residues:	No		
Asbestos:	No		
PCBs:	No		
Source:	Materials Production/Recovery Effluents		

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							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55 gallon	343.0	0.8	2.7	1.7	0.0	348.2	55 Gallon Drum	343.0	0.0	0.0	0.0	0.0	348.2
Drum / 85 gallon	0.3	0.0	0.3	0.0	0.0	0.6	Standard Waste Box	270.3	0.0	0.0	0.0	0.0	274.0
Nonstandard Box	271.4	0.0	0.0	0.0	0.0	271.4							
As-Generated	Stored	Projected	Total				Final Form	Stored	Projected	Total			
	614.8	5.5	620.3					613.3	9.0	622.2			

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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.

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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 aiseways 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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	None	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	0.00	0.00	0.00	Residues:	No		Pu-238	1.92E-01
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	No		Pu-239	5.69E+00
	Other Metal/Alloys	272.00	0.00	544.00	PCBs:	No		Pu-240	1.30E+00
	Other Inorganic Materials	0.00	0.00	0.00	Source:	R&D/R&D Laboratory Waste		Pu-241	3.19E+01
	Cellulosics	0.00	0.00	0.00				Pu-242	1.15E-04
	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							

Waste Volume Detail (Cubic meters) for TWBIR ID : NT-W021													
As-Generated Volumes							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	Total
Sphere/3-ft. dia X 4-ft. dia Stai	0.9	0.0	0.0	0.0	0.0	0.9	Standard Waste Box	5.7	0.0	0.0	0.0	0.0	5.7
As-Generated	Stored 0.9	Projected 0.0	Total 0.9				Final Form	Stored 5.7	Projected 0.0	Total 5.7			

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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.

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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		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	N/A	
Asbestos:	Unknown	
PCBs:	Unknown	
Source:	Source Unknown	

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							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55 gallon	0.0	23.3	34.9	0.0	0.0	57.4	55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	57.4
As-Generated	Stored 0.0	Projected 57.4	Total 57.4					Final Form	Stored 0.0	Projected 57.4	Total 57.4		

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)		Final Form Radionuclides (Continued)	
Isotope	Typical Concentration (Ci/m3)	Isotope	Typical Concentration (Ci/m3)
Fe-59	8.63E-02	Te-123	5.60E-07
Ni-63	2.39E-06	Te-123m	1.71E-05
Np-237	6.60E-04	Th-232	4.72E-07
Pa-231	2.58E-05	U-232	1.79E-06
Pm-147	2.16E-04	U-233	4.50E-01
Po-209	4.31E-08	U-234	3.59E-01
Pu-238	2.72E+01	U-235	4.27E-05
Pu-239	1.78E+01	U-236	1.75E-07
Pu-240	1.77E+01	U-238	3.77E-04
Pu-241	1.65E+03	Y-90	7.32E-08
Pu-242	1.46E-03		
Ra-223	2.58E-05		
Ra-226	1.01E-04		
Sr-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

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TWBIR ID: OR-W202

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	Waste Material Parameters (kg/m3)			
As-Generated	Material Parameter	Average	Lower	Upper
N/A	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	TRUCON Codes
Category: Defense TRU Waste	N/A
Residues: N/A	
Asbestos: Unknown	
PCBs: Unknown	
Source: 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						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55 gallon	0.0	111.2	166.9	0.0	0.0	278.1	55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	278.1
As-Generated	Stored 0.0	Projected 278.1	Total 278.1			Final Form	Stored 0.0	Projected 278.1	Total 278.1				

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)		Final Form Radionuclides (Continued)	
Isotope	Typical Concentration (Ci/m3)	Isotope	Typical Concentration (Ci/m3)
Pa-231	2.05E-03	U-234	3.86E-05
Pm-147	3.03E-02	U-235	2.84E-05
Pu-238	1.62E+01	U-236	5.81E-07
Pu-239	9.46E-01	U-238	1.64E-04
Pu-240	9.04E-01	Zn-65	1.83E-05
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		

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

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TWBIR ID: OR-W203

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		
EPA Codes		Waste Material Parameters (kg/m3)			Final Waste Form Descriptors		TRUCON Codes		Final Form Radionuclides

As-Generated
N/A

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		

Category:	Defense TRU Waste	TRUCON Codes	N/A
Residues:	N/A		
Asbestos:	Unknown		
PCBs:	Unknown		
Source:	N/A		

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						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55 gallon	0.0	18.0	46.9	30.0	0.0	95.1	55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	95.1
As-Generated	Stored 0.0	Projected 95.1	Total 95.1				Final Form	Stored 0.0	Projected 95.1	Total 95.1			

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TWBIR ID: **OR-W203**

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)		Final Form Radionuclides (Continued)	
Isotope	Typical Concentration (Ci/m3)	Isotope	Typical Concentration (Ci/m3)
Cs-134	2.57E-03	Sr-90	2.49E-01
Cs-137	3.36E-02	Zr-95	3.62E-03
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		

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

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TWBIR ID: OR-W204

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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		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	N/A	
Asbestos:	Unknown	
PCBs:	Yes	
Source:	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						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55 gallon	0.0	7.3	11.0	0.0	0.0	18.3	55 Gallon Drum	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	Stored 0.0	Projected 18.3	Total 18.3			

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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

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TWBIR ID: OR-W211

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		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	N/A	
Asbestos:	Unknown	
PCBs:	Unknown	
Source:	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							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
RH Canister	0.0	30.6	45.9	0.0	0.0	76.5	RH Canister	0.0	0.0	0.0	0.0	0.0	76.5
As-Generated	Stored 0.0	Projected 76.5	Total 76.5				Final Form	Stored 0.0	Projected 76.5	Total 76.5			

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)		Final Form Radionuclides (Continued)	
Isotope	Typical Concentration (Ci/m3)	Isotope	Typical Concentration (Ci/m3)
Cs-134	4.86E-03	Sr-90	4.70E-01
Cs-137	6.33E-02	Zr-95	6.81E-03
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		

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

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TWBIR ID: OR-W212

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			
EPA Codes		Waste Material Parameters (kg/m3)			Final Waste Form Descriptors		TRUCON Codes		Final Form Radionuclides	

As-Generated
N/A

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		

Category:	Defense TRU Waste
Residues:	N/A
Asbestos:	Unknown
PCBs:	Unknown
Source:	N/A

TRUCON Codes	N/A
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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							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
RH Canister	0.0	49.1	101.8	42.2	0.0	193.1	RH Canister	0.0	0.0	0.0	0.0	0.0	193.1
As-Generated	Stored 0.0	Projected 193.1	Total 193.1					Final Form	Stored 0.0	Projected 193.1	Total 193.1		

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)		Final Form Radionuclides (Continued)	
Isotope	Typical Concentration (Ci/m3)	Isotope	Typical Concentration (Ci/m3)
Cs-134	4.86E-03	Sr-90	4.70E-01
Cs-137	6.33E-02	Zr-95	6.81E-03
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		

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

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TWBIR ID: OR-W213

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	Waste Material Parameters (kg/m3)			
As-Generated	Material Parameter	Average	Lower	Upper
N/A	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	TRUCON Codes
Category: Defense TRU Waste	N/A
Residues: N/A	
Asbestos: Unknown	
PCBs: Unknown	
Source: 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						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
RH Canister	0.0	78.7	118.0	0.0	0.0	196.7	RH Canister	0.0	0.0	0.0	0.0	0.0	196.7
As-Generated	Stored 0.0	Projected 196.7	Total 196.7				Final Form	Stored 0.0	Projected 196.7	Total 196.7			

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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

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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		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	N/A	
Asbestos:	Unknown	
PCBs:	Yes	
Source:	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							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
RH Canister	0.0	0.7	1.1	0.0	0.0	1.8	RH Canister	0.0	0.0	0.0	0.0	0.0	1.8
As-Generated	Stored 0.0	Projected 1.8	Total 1.8				Final Form	Stored 0.0	Projected 1.8	Total 1.8			

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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

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TWBIR ID: OR-W215

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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	0.00	0.00	0.00	Residues:	N/A		Am-241	1.67E+00
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	Unknown		Cf-252	3.49E-03
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	Unknown		Cm-244	8.88E+00
	Other Inorganic Materials	0.00	0.00	0.00	Source:	Pollution Control or Waste Treatment Process		Co-60	8.48E+00
	Cellulosics	0.00	0.00	0.00				Cs-137	1.23E+02
	Rubber	0.00	0.00	0.00				Eu-152	2.99E+01
	Plastics	0.00	0.00	0.00				Eu-154	1.68E+01
	Solidified, Inorganic Matrix	1710.00	0.00	1710.00				Eu-155	4.59E+00
	Cement (Solidified)	0.00	0.00	0.00				H-3	3.56E-03
	Vitrified	0.00	0.00	0.00				Pu-238	1.46E+00
	Solidified, Organic Matrix	0.00	0.00	0.00				Pu-239	7.05E-01
	Soils	0.00	0.00	0.00				Pu-240	1.47E-01
	Packaging Material, Steel	900.00						Pu-241	1.56E+00
	Packaging Material, Plastic	0.00						Pu-242	2.96E-04
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : OR-W215													
As-Generated Volumes						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
RH Canister	0.0	76.9	115.3	0.0	0.0	192.2	RH Canister	0.0	0.0	0.0	0.0	0.0	192.2
As-Generated	Stored 0.0	Projected 192.2	Total 192.2				Final Form	Stored 0.0	Projected 192.2	Total 192.2			

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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

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TWBIR ID: PA-A015

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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	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated D007	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	N/A	Isotope	Typical Concentration (Ci/m3)
	Iron-Base Metal/Alloys	23.30	0.00	0.00	Residues:	No		Np-237	3.65E-03
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	No		Pu-239	2.42E-02
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	No		Tc-99	2.60E-01
	Other Inorganic Materials	0.00	0.00	0.00	Source:	Other/Multiple Sources		Th-230	4.90E-03
	Cellulosics	0.00	0.00	0.00				U	2.42E+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							

Waste Volume Detail (Cubic meters) for TWBIR ID : PA-A015													
As-Generated Volumes						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum/55-gallon in overpack	2.1	0.0	0.0	0.0	0.0	2.1	Standard Waste Box	5.7	0.0	0.0	0.0	0.0	11.3
As-Generated	Stored 2.1	Projected 0.0	Total 2.1			Final Form	Stored 5.7	Projected 5.7	Total 11.3				

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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

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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		TRUCON Codes
Category:	Defense TRU Waste	111
Residues:	No	
Asbestos:	No	
PCBs:	No	
Source:	Pollution Control or Waste Treatment Process	

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							Final Form Volumes						
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55 gallon	7.5	0.0	0.0	0.0	0.0	7.5	55 Gallon Drum	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	85 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
As-Generated	Stored	8.1	Projected	0.0	Total	8.1	Final Form	Stored	8.1	Projected	0.0	Total	8.1

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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.

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

1. Basis for determining LDR storage prohibition status is based primarily 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

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		TRUCON Codes
Category:	Defense TRU Waste	111
Residues:	N/A	
Asbestos:	N	
PCBs:	N	
Source:	Waste Treatment	

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

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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

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TWBIR ID: RF-MT0003

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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		TRUCON Codes
Category:	Defense TRU Waste	112
Residues:	No	
Asbestos:	No	
PCBs:	No	
Source:	Facility/Equipment Operation and Maintenance Waste	

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						Final Form Volumes							
ContainerType	Stored End of CY 2001	Projected				Total	ContainerType	Stored End of CY 2001	Projected				Total
		2002-2006	2007-2016	2017-2026	2027-2036				2002-2006	2007-2016	2017-2026	2027-2036	
Drum / 55 gallon	1.7	0.0	0.0	0.0	0.0	1.7	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	Stored 1.7	Projected 0.0	Total 1.7				

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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

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

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 headspace 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 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.

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Comments N/A