

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

Annex J

TWBIR ID: RF-TT0886

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W112	Handling	CH	Stream Name	Solidified Lab Waste/TRU			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	RF	Final Waste Form	Solidified Inorganics		Waste Matrix Code	S3160

EPA Codes	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	17.34	9.07	28.64	Residues:	N/A		Pu-238	3.53E-02
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	N		Pu-239	7.51E-01
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	N		Pu-240	1.72E-01
	Other Inorganic Materials	31.82	22.44	43.44	Source:	Decontamination and Decommissioning		Pu-241	4.40E+00
	Cellulosics	167.07	167.07	167.07				Pu-242	2.18E-05
	Rubber	0.00	0.00	0.00					
	Plastics	0.00	0.00	0.00					
	Solidified, Inorganic Matrix	0.00	0.00	0.00					
	Cement (Solidified)	0.00	0.00	0.00					
	Vitrified	0.00	0.00	0.00					
	Solidified, Organic Matrix	0.00	0.00	0.00					
	Soils	0.00	0.00	0.00					
	Packaging Material, Steel	131.00							
	Packaging Material, Plastic	37.00							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT0886													
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	
8804 Can	0.0	0.0	0.0	0.0	0.0	0.0	55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
As-Generated	Stored 0.0	Projected 0.0	Total 0.0			Final Form	Stored 0.2	Projected 0.0	Total 0.2				

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Waste Stream Description Non-hazardous solid excess chemicals contaminated with plutonium to TRU concentrations. Chemicals are expired or off-specification in some manner and are therefore not useable.

Waste Stream Source Description N/A

Current Container Comments N/A

EPA Comments N/A

Management Comments New Waste Stream being added to TWBIR

Acceptance Comments N/A

Final Form Comments N/A

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W106	Handling	CH	Stream Name	Supercompacted Combustibles/TRU			Inventory Date	9/30/2002	
Local ID	None	Waste Type	TRU	Generator Site	RF	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5390

EPA Codes
As-Generated
N/A

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	269.39	0.00	0.00	
Aluminum-Base Metal/Alloys	1.52	0.00	0.00	
Other Metal/Alloys	5.33	0.00	0.00	
Other Inorganic Materials	13.90	0.00	0.00	
Cellulosics	24.37	0.00	0.00	
Rubber	82.63	0.00	0.00	
Plastics	260.45	0.00	0.00	
Solidified, Inorganic Matrix	5.33	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	26.27	0.00	0.00	
Soils	0.00	0.00	0.00	
Packaging Material, Steel	131.00			
Packaging Material, Plastic	37.00			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors		TRUCON Codes
Category:	Defense TRU Waste	116
Residues:	No	
Asbestos:	No	
PCBs:	No	
Source:	Pollution Control or Waste Treatment Process	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	1.83E+00
Np-237	1.18E-05
Pu-238	2.69E-01
Pu-239	6.07E+00
Pu-240	1.38E+00
Pu-241	3.17E+01
Pu-242	1.69E-04
U-234	1.72E-04
U-235	5.59E-06
U-238	5.48E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT2216													
As-Generated Volumes						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	3.1	0.0	0.0	0.0	0.0	3.1	55 Gallon Drum	3.1	0.0	0.0	0.0	0.0	3.1
As-Generated	Stored 3.1	Projected 0.0	Total 3.1			Final Form	Stored 3.1	Projected 0.0	Total 3.1				

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description N/A

Waste Stream Source Description This waste consists of cloth and paper products from cleanup of gloveboxes and spills which has been supercompacted for volume reduction.

IDC 2116 is supercompacted combustible waste consisting of any combination of IDC 831, 832, or 833 waste. IDC 2216 is supercompacted combustible waste consisting of any combination of 821, 822, or 825.

IDC 2116 is supercompacted combustible waste consisting of any combination of IDC 831, 832, or 833 waste. IDC 2216 is supercompacted combustible waste consisting of any combination of 821, 822, or 825.

Current Container Comments N/A

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RF-TT3010

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W109	Handling	CH	Stream Name	Metal/TRU			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	RF	Final Waste Form	Heterogeneous Debris			
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	259.62	38.45	585.72
Aluminum-Base Metal/Alloys	19.27	0.96	41.03
Other Metal/Alloys	12.97	0.11	52.65
Other Inorganic Materials	15.25	1.04	32.26
Cellulosics	4.88	4.31	12.89
Rubber	3.26	0.86	12.24
Plastics	15.26	2.05	87.35
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	151.71		
Packaging Material, Plastic	7.48		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Category:	Defense TRU Waste	130
Residues:	N/A	
Asbestos:	Y	
PCBs:	N	
Source:	Decontamination and Decommissioning	

Isotope	Typical Concentration (Ci/m3)
Am-241	2.47E-01
Np-237	5.72E-06
Pu-238	1.04E-01
Pu-239	2.25E+00
Pu-240	5.16E-01
Pu-241	1.27E+01
Pu-242	6.27E-05
U-234	7.03E-06
U-235	2.27E-07
U-238	9.27E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT3010													
As-Generated Volumes						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	20.0	0.0	0.0	0.0	23.7	55 Gallon Drum	3.8	0.0	0.0	0.0	0.0	23.8
Standard Waste Box	34.2	302.1	0.0	0.0	0.0	336.3	Standard Waste Box	34.0	0.0	0.0	0.0	0.0	334.5
As-Generated	Stored	37.9	Projected	322.1	Total	360.0	Final Form	Stored	37.8	Projected	320.5	Total	358.3

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description "This IDC is assigned to composite debris, rubble, or material composed of such things as gloveboxes, process equipment and other inorganic materials, such as concrete, glass, firebrick, ceramics, asbestos, etc. The materials contain up to 10 weight percent hydrogenous (organic) material such as cellulose, Plexiglas, rubber, small quantities of nonhazardous liquid (e.g., Texaco 650 oil) absorbed or solidified using Oil Dri or Nochar polymer, or other organic materials associated with the waste items."

Waste Stream Source Description N/A

Current Container Comments N/A

EPA Comments N/A

Management Comments New Waste Stream being added to TWBIR

Acceptance Comments N/A

Final Form Comments N/A

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W109	Handling	CH	Stream Name	Metal/TRU			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	RF	Final Waste Form	Heterogeneous Debris		
Waste Matrix Code		S5490							

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	121	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	201.02	4.02	712.33	Residues:	N/A		Am-241	2.57E-01
	Aluminum-Base Metal/Alloys	7.15	0.16	32.94	Asbestos:	Y		Np-237	6.84E-06
	Other Metal/Alloys	69.19	0.76	566.71	PCBs:	N		Pu-238	7.20E-02
	Other Inorganic Materials	36.29	0.14	358.76	Source:	Decontamination and Decommissioning		Pu-239	1.53E+00
	Cellulosics	4.42	4.31	12.89				Pu-240	3.52E-01
	Rubber	4.22	0.11	47.72				Pu-241	8.98E+00
	Plastics	29.68	0.43	225.63				Pu-242	4.44E-05
	Solidified, Inorganic Matrix	4.72	0.53	10.67				U-234	1.55E-05
	Cement (Solidified)	0.00	0.00	0.00				U-235	5.03E-07
	Vitrified	0.00	0.00	0.00				U-238	3.87E-07
	Solidified, Organic Matrix	16.27	0.71	52.54					
	Soils	0.00	0.00	0.00					
	Packaging Material, Steel	152.42							
	Packaging Material, Plastic	5.24							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT3011													
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	17.1	1.0	0.0	0.0	0.0	18.1	55 Gallon Drum	17.1	0.0	0.0	0.0	0.0	18.1
Standard Waste Box	723.9	685.9	0.0	0.0	0.0	1409.8	Standard Waste Box	720.1	0.0	0.0	0.0	0.0	1402.4
As-Generated	Stored	741.0	Projected	686.9	Total	1427.9	Final Form	Stored	737.2	Projected	683.3	Total	1420.5

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description "This IDC is assigned to composite debris, rubble, or material composed of such things as gloveboxes, process equipment and other inorganic materials, such as concrete, glass, firebrick, ceramics, asbestos, etc. This material typically contains greater than 10 weight percent hydrogenous (organic) material such as cellulose, plastic, Plexiglas, rubber, small quantities of nonhazardous liquid (e.g., Texaco 650 oil) absorbed or solidified using Oil Dri or Nochar polymer, or other organic materials associated with the waste items; however, there is no upper limit for the amount of hydrogenous material. "

Waste Stream Source Description N/A

Current Container Comments N/A

EPA Comments N/A

Management Comments New Waste Stream being added to TWBIR

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RF-TT301U

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W117	Handling	CH	Stream Name	Coarse Graphite/TRU			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	RF	Final Waste Form	Graphite	Waste Matrix Code	S5126

EPA Codes	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	115	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	84.62	35.80	114.56	Residues:	N/A		Am-241	2.31E+00
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	N		Np-237	1.38E-05
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	N		Pu-238	1.06E+00
	Other Inorganic Materials	288.22	229.60	332.23	Source:	Residue Repackaging		Pu-239	2.32E+01
	Cellulosics	12.89	12.89	12.89				Pu-240	5.41E+00
	Rubber	0.00	0.00	0.00				Pu-241	1.24E+02
	Plastics	19.44	10.50	23.39				Pu-242	6.60E-04
	Solidified, Inorganic Matrix	0.00	0.00	0.00				U-234	1.01E-05
	Cement (Solidified)	0.00	0.00	0.00				U-235	3.88E-07
	Vitrified	0.00	0.00	0.00				U-238	6.54E-06
	Solidified, Organic Matrix	0.00	0.00	0.00					
	Soils	0.00	0.00	0.00					
	Packaging Material, Steel	138.53							
	Packaging Material, Plastic	30.36							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT301U													
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	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
As-Generated	Stored 15.6	Projected 0.0	Total 15.6			Final Form	Stored 15.6	Projected 0.0	Total 15.6				

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Classified graphite shapes that have been sanitized by crushing in a hammermill to a size of less than ½-inch in diameter.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

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TWBIR ID: RF-TT310P

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W117	Handling	CH	Stream Name	Coarse Graphite/TRU			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	RF	Final Waste Form	Graphite	Waste Matrix Code	S5126

EPA Codes	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	115	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	8.22	3.68	16.23	Residues:	N/A		Am-241	5.80E+00
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	N		Np-237	3.12E-06
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	N		Pu-238	1.60E+00
	Other Inorganic Materials	33.05	12.75	63.49	Source:	Residue Repackaging		Pu-239	4.50E+01
	Cellulosics	167.07	167.07	167.07				Pu-240	9.80E+00
	Rubber	0.00	0.00	0.00				Pu-241	1.49E+02
	Plastics	1.91	1.91	1.91				Pu-242	7.15E-04
	Solidified, Inorganic Matrix	0.00	0.00	0.00				U-234	1.36E-06
	Cement (Solidified)	0.00	0.00	0.00				U-235	4.38E-08
	Vitrified	0.00	0.00	0.00				U-238	3.87E-10
	Solidified, Organic Matrix	0.00	0.00	0.00					
	Soils	0.00	0.00	0.00					
	Packaging Material, Steel	525.17							
	Packaging Material, Plastic	23.87							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT310P													
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 / 55 gallon	2.7	0.0	0.0	0.0	0.0	2.7	55 Gallon POCs	2.7	0.0	0.0	0.0	0.0	2.7
As-Generated	Stored	2.7	Projected	0.0	Total	2.7	Final Form	Stored	2.7	Projected	0.0	Total	2.7

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	A blended product of IDC 310 and IDC 301U
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

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TWBIR ID: RF-TT338S

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W115	Handling	CH	Stream Name	Coarse Graphite/TRU			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	RF	Final Waste Form	Solidified Inorganics		Waste Matrix Code	S3119

EPA Codes	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	121	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	19.44	0.96	42.96	Residues:	N/A		Am-241	4.21E-02
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	N		Pu-238	4.74E-01
	Other Metal/Alloys	23.87	23.87	23.87	PCBs:	N		Pu-239	1.01E+01
	Other Inorganic Materials	92.37	1.43	493.57	Source:	Residue Repackaging		Pu-240	2.31E+00
	Cellulosics	12.89	12.89	12.89				Pu-241	5.92E+01
	Rubber	0.00	0.00	0.00				Pu-242	2.92E-04
	Plastics	15.87	2.20	41.05					
	Solidified, Inorganic Matrix	80.40	0.48	339.39					
	Cement (Solidified)	0.00	0.00	0.00					
	Vitrified	0.00	0.00	0.00					
	Solidified, Organic Matrix	0.00	0.00	0.00					
	Soils	0.00	0.00	0.00					
	Packaging Material, Steel	138.51							
	Packaging Material, Plastic	29.39							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT338S													
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	
Slip Lid Can	0.0	0.0	0.0	0.0	0.0	0.0	55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
As-Generated	Stored	0.0	Projected	0.0	Total	0.0	Final Form	Stored	0.4	Projected	0.0	Total	0.4

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Insulation standards discovered during residue repackaging.
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

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TWBIR ID: RF-TT390P

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W116	Handling	CH	Stream Name	"Sand, Slag, and Crucible/TRU"			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	RF	Final Waste Form	Inorganic Non-Metal	Waste Matrix Code	S5129

EPA Codes	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	122	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	9.07	9.07	9.07	Residues:	N/A		Am-241	6.61E+00
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	N		Pu-238	1.29E+00
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	N		Pu-239	4.91E+01
	Other Inorganic Materials	23.39	23.39	23.39	Source:	Materials		Pu-240	1.04E+01
	Cellulosics	167.07	167.07	167.07		Production/Repackaging		Pu-241	1.47E+02
	Rubber	0.00	0.00	0.00				Pu-242	5.42E-04
	Plastics	0.00	0.00	0.00				U-234	6.91E-05
	Solidified, Inorganic Matrix	0.00	0.00	0.00				U-235	2.23E-06
	Cement (Solidified)	0.00	0.00	0.00				U-238	1.97E-08
	Vitrified	0.00	0.00	0.00					
	Solidified, Organic Matrix	0.00	0.00	0.00					
	Soils	0.00	0.00	0.00					
	Packaging Material, Steel	525.22							
	Packaging Material, Plastic	23.87							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT390P													
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 / 55 gallon	0.4	0.0	0.0	0.0	0.0	0.4	55 Gallon POCs	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 "Unpulverized calcium fluoride slag processed for shipment to the Savannah River Site (SRS). The SRS project was cancelled, and this IDC is now considered waste."

Waste Stream Source Description N/A

Current Container Comments N/A

EPA Comments N/A

Management Comments New Waste Stream being added to TWBIR

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RF-TT391P

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W116	Handling	CH	Stream Name	"Sand, Slag, and Crucible/TRU"			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	RF	Final Waste Form	Inorganic Non-Metal	Waste Matrix Code	S5129

EPA Codes	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	122	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	28.20	16.23	45.35	Residues:	N/A		Am-241	6.21E+00
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	N		Np-237	8.90E-06
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	N		Pu-238	1.06E+00
	Other Inorganic Materials	26.93	15.75	39.14	Source:	Materials		Pu-239	4.05E+01
	Cellulosics	167.07	167.07	167.07		Production/Repackaging		Pu-240	9.14E+00
	Rubber	0.00	0.00	0.00				Pu-241	1.64E+02
	Plastics	0.00	0.00	0.00				Pu-242	6.57E-04
	Solidified, Inorganic Matrix	0.00	0.00	0.00					
	Cement (Solidified)	0.00	0.00	0.00					
	Vitrified	0.00	0.00	0.00					
	Solidified, Organic Matrix	0.00	0.00	0.00					
	Soils	0.00	0.00	0.00					
	Packaging Material, Steel	525.22							
	Packaging Material, Plastic	23.87							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT391P													
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 / 55 gallon	22.7	0.0	0.0	0.0	0.0	22.7	55 Gallon POCs	22.7	0.0	0.0	0.0	0.0	22.7
As-Generated	Stored	22.7	Projected	0.0	Total	22.7	Final Form	Stored	22.7	Projected	0.0	Total	22.7

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Unpulverized magnesium oxide sand and crucible processed for shipment to the SRS. The SRS project was cancelled, and this IDC is now considered waste."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

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TWBIR ID: RF-TT392P

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W116	Handling	CH	Stream Name	"Sand, Slag, and Crucible/TRU"			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	RF	Final Waste Form	Inorganic Non-Metal	Waste Matrix Code	S5129

EPA Codes	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	122	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	26.82	5.73	57.28	Residues:	N/A		Am-241	4.44E+00
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	N		Pu-238	1.33E+00
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	N		Pu-239	4.24E+01
	Other Inorganic Materials	25.48	4.30	45.83	Source:	Materials		Pu-240	9.66E+00
	Cellulosics	167.07	167.07	167.07		Production/Repackaging		Pu-241	1.13E+02
	Rubber	0.00	0.00	0.00				Pu-242	6.19E-04
	Plastics	0.00	0.00	0.00				U-234	7.91E-07
	Solidified, Inorganic Matrix	0.00	0.00	0.00				U-235	2.55E-08
	Cement (Solidified)	0.00	0.00	0.00				U-238	2.26E-10
	Vitrified	0.00	0.00	0.00					
	Solidified, Organic Matrix	0.00	0.00	0.00					
	Soils	0.00	0.00	0.00					
	Packaging Material, Steel	525.22							
	Packaging Material, Plastic	23.87							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT392P													
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
POC / 55 gallon	65.1	0.0	0.0	0.0	0.0	65.1	55 Gallon POCs	65.2	0.0	0.0	0.0	0.0	65.2
As-Generated	Stored	65.1	Projected	0.0	Total	65.1	Final Form	Stored	65.2	Projected	0.0	Total	65.2

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TWBIR ID: RF-TT392P

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Unpulverized magnesium oxide sand, calcium fluoride slag, and magnesium oxide crucible processed for shipment to the SRS."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W116	Handling	CH	Stream Name	"Sand, Slag, and Crucible/TRU"			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	RF	Final Waste Form	Solidified Inorganics		Waste Matrix Code	S5129

EPA Codes	Waste Material Parameters (kg/m3)			
As-Generated	Material Parameter	Average	Lower	Upper
N/A	Iron-Base Metal/Alloys	51.47	17.18	76.85
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00
	Other Metal/Alloys	0.00	0.00	0.00
	Other Inorganic Materials	45.01	15.28	93.56
	Cellulosics	167.07	167.07	167.07
	Rubber	0.00	0.00	0.00
	Plastics	0.00	0.00	0.00
	Solidified, Inorganic Matrix	0.00	0.00	0.00
	Cement (Solidified)	0.00	0.00	0.00
	Vitrified	0.00	0.00	0.00
	Solidified, Organic Matrix	0.00	0.00	0.00
	Soils	0.00	0.00	0.00
	Packaging Material, Steel	525.22		
	Packaging Material, Plastic	23.87		
	Packaging Material, Lead	0.00		
	Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors	TRUCON Codes
Category: Defense TRU Waste	130
Residues: N/A	
Asbestos: N	
PCBs: N	
Source: Materials Recovery/Repackaging	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	3.14E+00
Np-237	1.03E-06
Pu-238	1.18E+00
Pu-239	3.37E+01
Pu-240	7.75E+00
Pu-241	9.56E+01
Pu-242	4.91E-04
U-234	1.38E-05
U-235	4.46E-07
U-238	3.94E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT393R													
As-Generated Volumes						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	
8802 Can	0.0	0.0	0.0	0.0	0.0	0.0	55 Gallon POCs	12.5	0.0	0.0	0.0	0.0	12.5
POC / 55 gallon	12.3	0.0	0.0	0.0	0.0	12.3							
As-Generated	Stored	Projected	Total				Final Form	Stored	Projected	Total			
	12.3	0.0	12.3					12.5	0.0	12.5			

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description "Repackaged/blended sand, slag, and crucible heel. These materials may be blended with reagent magnesium oxide sand. Materials which may become IDC 393R for disposal include sand, slag, and crucible heel (IDC 393), ground/blended sand, slag, and crucible heel (IDC 393P), and SS&C heel repack/processed (IDC 393R)."

Waste Stream Source Description N/A

Current Container Comments N/A

EPA Comments N/A

Management Comments New Waste Stream being added to TWBIR

Acceptance Comments N/A

Final Form Comments N/A

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W116	Handling	CH	Stream Name	"Sand, Slag, and Crucible/TRU"			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	RF	Final Waste Form	Inorganic Non-Metal	Waste Matrix Code	S5129

EPA Codes	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	122	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	26.82	5.73	57.28	Residues:	N/A		Am-241	1.13E+01
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	N		Np-237	8.81E-05
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	N		Pu-238	1.46E+00
	Other Inorganic Materials	25.48	4.30	45.83	Source:	Materials		Pu-239	5.23E+01
	Cellulosics	167.07	167.07	167.07		Production/Repackaging		Pu-240	1.11E+01
	Rubber	0.00	0.00	0.00				Pu-241	1.38E+02
	Plastics	0.00	0.00	0.00				Pu-242	5.89E-04
	Solidified, Inorganic Matrix	0.00	0.00	0.00				U-234	1.14E-05
	Cement (Solidified)	0.00	0.00	0.00				U-235	3.67E-07
	Vitrified	0.00	0.00	0.00				U-238	3.25E-09
	Solidified, Organic Matrix	0.00	0.00	0.00					
	Soils	0.00	0.00	0.00					
	Packaging Material, Steel	525.22							
	Packaging Material, Plastic	23.87							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT394P													
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 / 55 gallon	0.6	0.0	0.0	0.0	0.0	0.6	55 Gallon POCs	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 "Magnesium oxide sand processed for shipment to the SRS. The SRS project was cancelled, and this IDC is now considered waste. The sand will contain small particles of calcium fluoride slag and small pieces of magnesium oxide crucible."

Waste Stream Source Description N/A

Current Container Comments N/A

EPA Comments N/A

Management Comments New Waste Stream being added to TWBIR

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RF-TT395P

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W116	Handling	CH	Stream Name	"Sand, Slag, and Crucible/TRU"			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	RF	Final Waste Form	Inorganic Non-Metal	Waste Matrix Code	S5129

EPA Codes	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	122	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	19.09	19.09	19.09	Residues:	N/A		Am-241	1.13E+01
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	N		Np-237	8.81E-05
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	N		Pu-238	1.46E+00
	Other Inorganic Materials	28.64	28.64	28.64	Source:	Materials		Pu-239	5.23E+01
	Cellulosics	167.07	167.07	167.07		Production/Repackaging		Pu-240	1.11E+01
	Rubber	0.00	0.00	0.00				Pu-241	1.38E+02
	Plastics	0.00	0.00	0.00				Pu-242	5.89E-04
	Solidified, Inorganic Matrix	0.00	0.00	0.00				U-234	1.14E-05
	Cement (Solidified)	0.00	0.00	0.00				U-235	3.67E-07
	Vitrified	0.00	0.00	0.00				U-238	3.25E-09
	Solidified, Organic Matrix	0.00	0.00	0.00					
	Soils	0.00	0.00	0.00					
	Packaging Material, Steel	525.22							
	Packaging Material, Plastic	23.87							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT395P													
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 / 55 gallon	0.8	0.0	0.0	0.0	0.0	0.8	55 Gallon POCs	0.8	0.0	0.0	0.0	0.0	0.8
As-Generated	Stored 0.8	Projected 0.0	Total 0.8			Final Form	Stored 0.8	Projected 0.0	Total 0.8				

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description "Unpulverized calcium fluoride slag and magnesium oxide crucible processed for shipment to the SRS. The SRS project was cancelled, and this IDC is now considered waste."

Waste Stream Source Description N/A

Current Container Comments N/A

EPA Comments N/A

Management Comments New Waste Stream being added to TWBIR

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RF-TT396P

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W116	Handling	CH	Stream Name	"Sand, Slag, and Crucible/TRU"			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	RF	Final Waste Form	Inorganic Non-Metal	Waste Matrix Code	S5129

EPA Codes	
As-Generated	
N/A	

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	26.82	5.73	57.28	
Aluminum-Base Metal/Alloys	0.00	0.00	0.00	
Other Metal/Alloys	0.00	0.00	0.00	
Other Inorganic Materials	25.48	4.30	45.83	
Cellulosics	167.07	167.07	167.07	
Rubber	0.00	0.00	0.00	
Plastics	0.00	0.00	0.00	
Solidified, Inorganic Matrix	0.00	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	0.00	0.00	0.00	
Packaging Material, Steel	525.22			
Packaging Material, Plastic	23.87			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors		TRUCON Codes
Category:	Defense TRU Waste	122
Residues:	N/A	
Asbestos:	N	
PCBs:	N	
Source:	Materials Production/Repackaging	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	1.13E+01
Np-237	8.81E-05
Pu-238	1.46E+00
Pu-239	5.23E+01
Pu-240	1.11E+01
Pu-241	1.38E+02
Pu-242	5.89E-04
U-234	1.14E-05
U-235	3.67E-07
U-238	3.25E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT396P													
As-Generated Volumes							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 / 55 gallon	0.2	0.0	0.0	0.0	0.0	0.2	55 Gallon POCs	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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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	"Pulverized calcium fluoride slag processed for shipment to the SRS. The SRS project was cancelled, and this IDC is now considered waste."
Waste Stream Source Description	N/A
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	New Waste Stream being added to TWBIR
Acceptance Comments	N/A
Final Form Comments	N/A

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W116	Handling	CH	Stream Name	"Sand, Slag, and Crucible/TRU"			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	RF	Final Waste Form	Inorganic Non-Metal	Waste Matrix Code	S5129

EPA Codes	
As-Generated	N/A

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	21.60	8.12	45.35	
Aluminum-Base Metal/Alloys	0.00	0.00	0.00	
Other Metal/Alloys	0.00	0.00	0.00	
Other Inorganic Materials	22.49	9.07	45.35	
Cellulosics	167.07	167.07	167.07	
Rubber	0.00	0.00	0.00	
Plastics	0.96	0.96	0.96	
Solidified, Inorganic Matrix	0.00	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	0.00	0.00	0.00	
Packaging Material, Steel	525.22			
Packaging Material, Plastic	23.87			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors		TRUCON Codes
Category:	Defense TRU Waste	122
Residues:	N/A	
Asbestos:	N	
PCBs:	N	
Source:	Materials Recovery/Repackaging	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	3.80E+00
Pu-238	1.22E+00
Pu-239	3.97E+01
Pu-240	8.98E+00
Pu-241	1.07E+02
Pu-242	5.44E-04
U-234	2.12E-07
U-235	6.82E-09
U-238	6.04E-11

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT398P													
As-Generated Volumes						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 / 55 gallon	43.1	0.0	0.0	0.0	0.0	43.1	55 Gallon POCs	43.1	0.0	0.0	0.0	0.0	43.1
As-Generated	Stored 43.1	Projected 0.0	Total 43.1			Final Form	Stored 43.1	Projected 0.0	Total 43.1				

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description "Pulverized sand, slag, and crucible processed for shipment to the SRS. The SRS project was cancelled, and this IDC is now considered waste. This waste stream may also include ground/blended sand, slag and crucible consisting of repackaged pulverized material or fines. Sand, slag, and crucible materials which may become IDC 398P for disposal include reburned sand, slag, and crucible sweepings (IDC 387); ground/blended reburned sand, slag, and crucible sweepings (IDC 387P); ground/blended slag (IDC 390P); ground/blended sand and crucible (IDC 391P); ground/blended sand, slag, and crucible (IDC 392P); magnesium oxide sand (IDC 394); ground/blended magnesium oxide sand (IDC 394P); ground/blended slag and crucible (IDC 395P); pulverized slag (IDC 396); ground/blended slag (IDC 396P); pulverized sand, slag, and crucible (IDC 398); and ground/blended sand, slag, and crucible (IDC 398P)."

Waste Stream Source Description N/A

Current Container Comments N/A

EPA Comments N/A

Management Comments New Waste Stream being added to TWBIR

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RF-TT398R

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W116	Handling	CH	Stream Name	"Sand, Slag, and Crucible/TRU"			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	RF	Final Waste Form	Inorganic Non-Metal	Waste Matrix Code	S5129

EPA Codes	Waste Material Parameters (kg/m3)			
As-Generated	Material Parameter	Average	Lower	Upper
N/A	Iron-Base Metal/Alloys	29.06	5.73	64.92
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00
	Other Metal/Alloys	0.00	0.00	0.00
	Other Inorganic Materials	24.80	8.12	59.67
	Cellulosics	167.07	167.07	167.07
	Rubber	0.00	0.00	0.00
	Plastics	0.00	0.00	0.00
	Solidified, Inorganic Matrix	0.00	0.00	0.00
	Cement (Solidified)	0.00	0.00	0.00
	Vitrified	0.00	0.00	0.00
	Solidified, Organic Matrix	0.00	0.00	0.00
	Soils	0.00	0.00	0.00
	Packaging Material, Steel	525.22		
	Packaging Material, Plastic	23.87		
	Packaging Material, Lead	0.00		
	Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors	TRUCON Codes
Category: Defense TRU Waste	122
Residues: N/A	
Asbestos: N	
PCBs: N	
Source: Materials Recovery/Repackaging	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	3.38E+01
Np-237	3.05E-04
Pu-238	1.41E+00
Pu-239	3.96E+01
Pu-240	8.98E+00
Pu-241	1.29E+02
Pu-242	6.83E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT398R													
As-Generated Volumes						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 / 55 gallon	69.7	0.0	0.0	0.0	0.0	69.7	55 Gallon POCs	69.8	0.0	0.0	0.0	0.0	69.8
As-Generated	Stored 69.7	Projected 0.0	Total 69.7			Final Form	Stored 69.8	Projected 0.0	Total 69.8				

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TWBIR ID: RF-TT398R

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description "Repackaged/blended sand slag and crucible consisting of unpulverized material or unpulverized material mixed with pulverized material or fines. Any sand, slag, and crucible IDC may become IDC 398R for disposal."

Waste Stream Source Description N/A

Current Container Comments N/A

EPA Comments N/A

Management Comments New Waste Stream being added to TWBIR

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RF-TT411R

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W103	Handling	CH	Stream Name	Miscellaneous Plutonium Recovery Byproduct/TRU			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	RF	Final Waste Form	Salt	Waste Matrix Code	S3141

EPA Codes	Waste Material Parameters (kg/m3)			
As-Generated	Material Parameter	Average	Lower	Upper
N/A	Iron-Base Metal/Alloys	11.20	3.34	35.80
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00
	Other Metal/Alloys	6.51	5.73	11.46
	Other Inorganic Materials	18.41	4.30	44.39
	Cellulosics	167.07	167.07	167.07
	Rubber	0.00	0.00	0.00
	Plastics	1.27	1.15	2.29
	Solidified, Inorganic Matrix	0.00	0.00	0.00
	Cement (Solidified)	0.00	0.00	0.00
	Vitrified	0.00	0.00	0.00
	Solidified, Organic Matrix	0.00	0.00	0.00
	Soils	0.00	0.00	0.00
	Packaging Material, Steel	525.14		
	Packaging Material, Plastic	23.87		
	Packaging Material, Lead	0.00		
	Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors	TRUCON Codes
Category: Defense TRU Waste	124
Residues: N/A	
Asbestos: N	
PCBs: N	
Source: Materials Recovery/Repackaging	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	9.69E+00
Pu-238	1.14E+00
Pu-239	4.09E+01
Pu-240	9.26E+00
Pu-241	8.25E+01
Pu-242	7.25E-04
U-234	3.02E-06
U-235	9.75E-08
U-238	8.62E-10

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT411R													
As-Generated Volumes							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 / 55 gallon	7.7	0.0	0.0	0.0	0.0	7.7		0.0	0.0	0.0	0.0	0.0	0.0
As-Generated	Stored 7.7	Projected 0.0	Total 7.7					0.0	0.0	0.0	0.0	0.0	0.0
						55 Gallon POCs	7.7	0.0	0.0	0.0	0.0	0.0	7.7
						Final Form	Stored 7.7	Projected 0.0	Total 7.7				

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TWBIR ID: RF-TT411R

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description "Repackaged spent salt from the ER processes. Salts which become IDC 411R for disposal include electrorefining salt, first use (IDC 363), electrorefining salt, second use (IDC 364), electrorefining salt – final disposition (IDC 411), impure salt from cell clean-out (IDC 413), returned salt from cell cleanout (IDC 426), stabilized electrorefining salt (IDC 411X), and electrorefining salt packaged for LANL (IDC 473). This output may also contain some broken or irregularly shaped pieces of magnesium oxide ceramic crucible coated with pyrochemical salt."

Waste Stream Source Description N/A

Current Container Comments N/A

EPA Comments N/A

Management Comments New Waste Stream being added to TWBIR

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RF-TT429R

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W103	Handling	CH	Stream Name	Miscellaneous Plutonium Recovery Byproduct/TRU			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	RF	Final Waste Form	Salt	Waste Matrix Code	S3141

EPA Codes	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	124	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	9.12	6.54	12.89	Residues:	N/A		Am-241	9.57E+01
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	N		Np-237	5.08E-04
	Other Metal/Alloys	5.74	5.73	5.82	PCBs:	N		Pu-238	9.06E-01
	Other Inorganic Materials	11.94	6.25	26.25	Source:	Materials		Pu-239	3.50E+01
	Cellulosics	167.07	167.07	167.07		Recovery/Repackaging		Pu-240	7.79E+00
	Rubber	0.00	0.00	0.00				Pu-241	5.32E+01
	Plastics	1.15	1.15	1.15				Pu-242	3.93E-04
	Solidified, Inorganic Matrix	0.00	0.00	0.00					
	Cement (Solidified)	0.00	0.00	0.00					
	Vitrified	0.00	0.00	0.00					
	Solidified, Organic Matrix	0.00	0.00	0.00					
	Soils	0.00	0.00	0.00					
	Packaging Material, Steel	525.18							
	Packaging Material, Plastic	23.87							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT429R													
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 / 55 gallon	2.1	0.0	0.0	0.0	0.0	2.1	55 Gallon POCs	2.1	0.0	0.0	0.0	0.0	2.1
As-Generated	Stored	2.1	Projected	0.0	Total	2.1	Final Form	Stored	2.1	Projected	0.0	Total	2.1

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TWBIR ID: RF-TT429R

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description "Repackaged spent salt from the MSE scrub alloy process including materials from failed production runs. Salts which become IDC 429R for disposal include MSE, unknown percent unpulverized (IDC 405), MSE, unknown percent pulverized (IDC 406), MSE, 8 percent unpulverized (IDC 407), MSE, 8 percent pulverized (IDC 408), MSE, 30 percent unpulverized (IDC 409), MSE, 30 percent pulverized (IDC 410), plutonium chloride mixed salt (IDC 415), MSE salt packaged for LANL (IDC 418), stabilized scrub alloy spent salt (IDC 429X), and scrub alloy spent salt (IDC 429). This output may also contain some broken or irregularly shaped pieces of magnesium oxide ceramic crucible coated with pyrochemical salt."

Waste Stream Source Description N/A

Current Container Comments N/A

EPA Comments N/A

Management Comments New Waste Stream being added to TWBIR

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RF-TT433X

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W103	Handling	CH	Stream Name	Miscellaneous Plutonium Recovery Byproduct/TRU			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	RF	Final Waste Form	Salt	Waste Matrix Code	S3141

EPA Codes
As-Generated
N/A

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	17.34	9.07	28.64	
Aluminum-Base Metal/Alloys	0.00	0.00	0.00	
Other Metal/Alloys	0.00	0.00	0.00	
Other Inorganic Materials	31.82	22.44	43.44	
Cellulosics	167.07	167.07	167.07	
Rubber	0.00	0.00	0.00	
Plastics	0.00	0.00	0.00	
Solidified, Inorganic Matrix	0.00	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	0.00	0.00	0.00	
Packaging Material, Steel	525.22			
Packaging Material, Plastic	23.87			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors		TRUCON Codes
Category:	Defense TRU Waste	124
Residues:	N/A	
Asbestos:	N	
PCBs:	N	
Source:	Materials Recovery/Repackaging	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	9.98E+01
Pu-238	8.37E-01
Pu-239	3.35E+01
Pu-240	6.74E+00
Pu-241	7.05E+01
Pu-242	3.24E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT433X													
As-Generated Volumes							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
POC / 55 gallon	0.6	0.0	0.0	0.0	0.0	0.6	55 Gallon POCs	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 "Spent salt from the MSE scrub alloy process that used dicesium salt. Other salts, which become IDC 433X for disposal, include MSE spent dicesium salt (IDC 427), scrub alloy spent dicesium salt (IDC 433), free calcium containing spent salt (IDC 434), and cerium/calcium spent salt (IDC 435). Salts which also may become IDC 433X for disposal include salt from bad DOR run (IDC 365), MSE Salt, Ca, Zn, K (IDC 404), Gibson salt (IDC 412), DOR salt – unoxidized calcium (IDC 414), Zn-Mg alloy metal (IDC 416) and DOR salt oxidized calcium (IDC 454)."

Waste Stream Source Description N/A

Current Container Comments N/A

EPA Comments N/A

Management Comments New Waste Stream being added to TWBIR

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RF-TT436R

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W103	Handling	CH	Stream Name	Miscellaneous Plutonium Recovery Byproduct/TRU			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	RF	Final Waste Form	Salt	Waste Matrix Code	S3141

EPA Codes	Waste Material Parameters (kg/m3)			
As-Generated	Material Parameter	Average	Lower	Upper
N/A	Iron-Base Metal/Alloys	11.25	7.16	21.48
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00
	Other Metal/Alloys	7.77	5.73	17.18
	Other Inorganic Materials	14.32	8.59	32.46
	Cellulosics	167.07	167.07	167.07
	Rubber	0.00	0.00	0.00
	Plastics	1.56	1.15	3.44
	Solidified, Inorganic Matrix	0.00	0.00	0.00
	Cement (Solidified)	0.00	0.00	0.00
	Vitrified	0.00	0.00	0.00
	Solidified, Organic Matrix	0.00	0.00	0.00
	Soils	0.00	0.00	0.00
	Packaging Material, Steel	525.22		
	Packaging Material, Plastic	23.87		
	Packaging Material, Lead	0.00		
	Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors	TRUCON Codes
Category: Defense TRU Waste	124
Residues: N/A	
Asbestos: N	
PCBs: N	
Source: Materials Recovery/Repackaging	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	6.19E+01
Np-237	4.47E-04
Pu-238	1.07E+00
Pu-239	3.88E+01
Pu-240	8.78E+00
Pu-241	1.20E+02
Pu-242	5.56E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT436R													
As-Generated Volumes						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 / 55 gallon	7.1	0.0	0.0	0.0	0.0	7.1	55 Gallon POCs	7.1	0.0	0.0	0.0	0.0	7.1
As-Generated	Stored 7.1	Projected 0.0	Total 7.1			Final Form	Stored 7.1	Projected 0.0	Total 7.1				

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description This output consists of repackaged Salt Residue Project material including any salt historically generated by pyrochemistry operations that contains less than 6 percent by weight moisture. This output may also contain some broken or irregularly shaped pieces of magnesium oxide ceramic crucible coated with pyrochemical salt.

Waste Stream Source Description N/A

Current Container Comments N/A

EPA Comments N/A

Management Comments New Waste Stream being added to TWBIR

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RF-TT454X

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RF-W103	Handling	CH	Stream Name	Miscellaneous Plutonium Recovery Byproduct/TRU			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	RF	Final Waste Form	Salt	Waste Matrix Code	S3141

EPA Codes	
As-Generated	
	N/A

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	11.20	3.34	35.80	
Aluminum-Base Metal/Alloys	0.00	0.00	0.00	
Other Metal/Alloys	6.51	5.73	11.46	
Other Inorganic Materials	18.41	4.30	44.39	
Cellulosics	167.07	167.07	167.07	
Rubber	0.00	0.00	0.00	
Plastics	1.27	1.15	2.29	
Solidified, Inorganic Matrix	0.00	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	0.00	0.00	0.00	
Packaging Material, Steel	525.14			
Packaging Material, Plastic	23.87			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors		TRUCON Codes
Category:	Defense TRU Waste	124
Residues:	N/A	
Asbestos:	N	
PCBs:	N	
Source:	Materials Recovery/Repackaging	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	6.19E+01
Np-237	4.47E-04
Pu-238	1.07E+00
Pu-239	3.88E+01
Pu-240	8.78E+00
Pu-241	1.20E+02
Pu-242	5.56E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RF-TT454X													
As-Generated Volumes							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
POC / 55 gallon	0.4	0.0	0.0	0.0	0.0	0.4	55 Gallon POCs	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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TWBIR ID: RF-TT454X

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description "Spent salt from the direct oxide reduction (DOR) process. Other salts which become IDC 454X for disposal include salt from bad DOR run (IDC 365), MSE salt, Ca, Zn, K (IDC 404), Gibson salt (IDC 412), DOR salt-unoxidized calcium (IDC 414), Zn-Mg alloy metal (IDC 416), Pu chloride mixed salt (IDC 415) and DOR salt – oxidized calcium (IDC 454)"

Waste Stream Source Description N/A

Current Container Comments N/A

EPA Comments N/A

Management Comments New Waste Stream being added to TWBIR

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RL-T101

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W236	Handling	CH	Stream Name	202A Bldg TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	RL	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5440

EPA Codes	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	Unassigned	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	619.28	0.00	0.00	Residues:	No		Ba-137m	4.08E-02
	Aluminum-Base Metal/Alloys	122.62	0.00	0.00	Asbestos:	No		Cs-137	4.42E-02
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	No		Pu-238	4.33E-02
	Other Inorganic Materials	41.43	0.00	0.00	Source:	Facility/Equipment Operation and Maintenance Waste		Pu-239	1.54E+00
	Cellulosics	64.29	0.00	0.00				Pu-240	3.46E-01
	Rubber	25.55	0.00	0.00				Pu-241	6.98E+00
	Plastics	70.99	0.00	0.00				Pu-242	2.08E-05
	Solidified, Inorganic Matrix	10.39	0.00	0.00				Sr-90	4.13E-02
	Cement (Solidified)	0.00	0.00	0.00				U-234	3.51E-13
	Vitrified	0.00	0.00	0.00				U-235	1.57E-14
	Solidified, Organic Matrix	0.00	0.00	0.00				U-238	3.42E-13
	Soils	10.17	0.00	0.00				Y-90	4.13E-02
	Packaging Material, Steel	141.00							
	Packaging Material, Plastic	21.43							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T101													
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	320.9	0.0	0.0	0.0	0.0	320.9	55 Gallon Drum	320.9	0.0	0.0	0.0	0.0	320.9
Standard Waste Box	247.0	0.0	0.0	0.0	0.0	247.0	Standard Waste Box	247.0	0.0	0.0	0.0	0.0	247.0
As-Generated	Stored	567.9	Projected	0.0	Total	567.9	Final Form	Stored	567.9	Projected	0.0	Total	567.9

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TWBIR ID: RL-T101

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
Waste Stream Source Description	This waste stream consists of contact-handled TRU waste from the Fuel Reprocessing Plant using the Plutonium/Uranium Solvent Extraction Process.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights of final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights of final waste form are unknown.

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TWBIR ID: RL-T102

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W237	Handling	CH	Stream Name	202-AL Bldg TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	RL	Final Waste Form	Heterogeneous Debris			
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	553.47	0.00	0.00
Aluminum-Base Metal/Alloys	87.78	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	42.97	0.00	0.00
Cellulosics	104.11	0.00	0.00
Rubber	44.58	0.00	0.00
Plastics	106.21	0.00	0.00
Solidified, Inorganic Matrix	14.90	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	17.83	0.00	0.00
Packaging Material, Steel	131.22		
Packaging Material, Plastic	36.66		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

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

Isotope	Typical Concentration (Ci/m3)
Ba-137m	5.65E-04
Cs-137	6.15E-04
Pu-238	1.56E-06
Pu-239	5.58E-05
Pu-240	1.25E-05
Pu-241	2.52E-04
Pu-242	7.52E-10
Sr-90	5.73E-04
U-234	5.74E-09
U-235	2.57E-10
U-238	5.57E-09
Y-90	5.73E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T102													
As-Generated Volumes						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	198.2	0.0	0.0	0.0	0.0	198.2	55 Gallon Drum	198.2	0.0	0.0	0.0	0.0	198.2
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9	Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9
As-Generated	Stored	200.1	Projected	0.0	Total	200.1	Final Form	Stored	200.1	Projected	0.0	Total	200.1

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TWBIR ID: RL-T102

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description This waste stream consists of contact-handled TRU waste from the laboratory at the Fuel Reprocessing Plant.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified waste in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights of final waste form are unknown.

Acceptance Comments N/A

Final Form Comments Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified waste in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights of final waste form are unknown.

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TWBIR ID: RL-T103

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W238	Handling	CH	Stream Name	216-Z-9 Retrieved Soil			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	RL	Final Waste Form	Soils	Waste Matrix Code	S4100

EPA Codes	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	Unassigned	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	0.00	0.00	0.00	Residues:	No		Am-241	5.05E-01
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	No		Ba-137m	2.68E-03
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	No		Cs-137	2.91E-03
	Other Inorganic Materials	0.00	0.00	0.00	Source:	Facility/Equipment Operation and Maintenance Waste		Pu-238	2.99E-01
	Cellulosics	0.00	0.00	0.00				Pu-239	3.84E+00
	Rubber	0.00	0.00	0.00				Pu-240	8.53E-01
	Plastics	0.00	0.00	0.00				Pu-241	2.12E+01
	Solidified, Inorganic Matrix	0.00	0.00	0.00				Pu-242	4.93E-05
	Cement (Solidified)	0.00	0.00	0.00				Sr-90	2.67E-03
	Vitrified	0.00	0.00	0.00				Tc-99	5.73E-07
	Solidified, Organic Matrix	0.00	0.00	0.00				Y-90	2.67E-03
	Soils	324.00	162.00	324.00					
	Packaging Material, Steel	131.00							
	Packaging Material, Plastic	37.00							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T103													
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	99.6	0.0	0.0	0.0	0.0	99.6	55 Gallon Drum	99.6	0.0	0.0	0.0	0.0	99.6
As-Generated	Stored 99.6	Projected 0.0	Total 99.6			Final Form	Stored 99.6	Projected 0.0	Total 99.6				

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TWBIR ID: RL-T103

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Waste consists of soil contaminated with TRU solutions. Soil is contained in a 0.3 mm polyethylene bag within an inner container. The outer container is a standard 55-gallon drum. Vermiculite is a packing material between the inner and outer container.
Waste Stream Source Description	This waste stream consists of TRU waste from the retrieved contaminated soil from the 216-Z-9 Trench. Soil is contaminated by TRU liquid waste.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights of final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights of final waste form are unknown.

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TWBIR ID: RL-T104

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W239	Handling	CH	Stream Name	221-T TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	RL	Final Waste Form	Heterogeneous Debris			
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	552.00	0.00	0.00
Aluminum-Base Metal/Alloys	87.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	43.00	0.00	0.00
Cellulosics	105.00	0.00	0.00
Rubber	45.00	0.00	0.00
Plastics	107.00	0.00	0.00
Solidified, Inorganic Matrix	15.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	18.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

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

Isotope	Typical Concentration (Ci/m3)
Ba-137m	7.92E-05
Cs-137	8.61E-05
Pu-238	8.95E-05
Pu-239	3.19E-03
Pu-240	7.17E-04
Pu-241	1.45E-02
Pu-242	4.32E-08
Sr-90	8.03E-05
U-234	6.53E-09
U-235	2.92E-10
U-238	6.34E-09
Y-90	8.03E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T104													
As-Generated Volumes						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	5.0	0.0	0.0	0.0	0.0	5.0	55 Gallon Drum	5.0	0.0	0.0	0.0	0.0	5.0
As-Generated	Stored 5.0	Projected 0.0	Total 5.0			Final Form	Stored 5.0	Projected 0.0	Total 5.0				

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TWBIR ID: RL-T104

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.
Waste Stream Source Description	This waste stream consists of TRU waste from the T Plant Fuel Reprocessing Plant.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights of final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights of final waste form are unknown.

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TWBIR ID: RL-T105

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W240	Handling	CH	Stream Name	222-S TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	RL	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5440

EPA Codes	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	Unassigned	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	621.46	0.00	0.00	Residues:	No		Am-241	1.70E-04
	Aluminum-Base Metal/Alloys	123.77	0.00	0.00	Asbestos:	No		Ba-137m	4.47E-04
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	No		Cs-137	4.86E-04
	Other Inorganic Materials	41.38	0.00	0.00	Source:	Facility/Equipment Operation and Maintenance Waste		Pu-238	2.11E-03
	Cellulosics	62.98	0.00	0.00				Pu-239	7.51E-02
	Rubber	24.92	0.00	0.00				Pu-240	1.68E-02
	Plastics	69.82	0.00	0.00				Pu-241	3.39E-01
	Solidified, Inorganic Matrix	10.24	0.00	0.00				Pu-242	1.01E-06
	Cement (Solidified)	0.00	0.00	0.00				Sr-90	4.53E-04
	Vitrified	0.00	0.00	0.00				U-233	1.17E-02
	Solidified, Organic Matrix	0.00	0.00	0.00				U-234	5.57E-07
	Soils	9.92	0.00	0.00				U-235	5.72E-08
	Packaging Material, Steel	141.33						U-238	6.16E-10
	Packaging Material, Plastic	20.93						Y-90	4.53E-04
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T105													
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	44.3	0.0	0.0	0.0	0.0	44.3	55 Gallon Drum	44.3	0.0	0.0	0.0	0.0	44.3
Standard Waste Box	36.1	0.0	0.0	0.0	0.0	36.1	Standard Waste Box	36.1	0.0	0.0	0.0	0.0	36.1
As-Generated	Stored	80.4	Projected	0.0	Total	80.4	Final Form	Stored	80.4	Projected	0.0	Total	80.4

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TWBIR ID: RL-T105

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description This waste stream consists of TRU waste from the Chemical Separation Areas Operations Laboratory.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified waste in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights of final waste form are unknown.

Acceptance Comments N/A

Final Form Comments Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified waste in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights of final waste form are unknown.

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TWBIR ID: RL-T106

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W241	Handling	CH	Stream Name	233-S TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	RL	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5440

EPA Codes	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated N/A	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	Unassigned	Isotope	Typical Concentration (Ci/m3)
	Iron-Base Metal/Alloys	552.00	0.00	0.00	Residues:	No		Ba-137m	8.08E-05
	Aluminum-Base Metal/Alloys	87.00	0.00	0.00	Asbestos:	No		Cs-137	8.80E-05
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	No		Pu-238	2.04E-02
	Other Inorganic Materials	43.00	0.00	0.00	Source:	Facility/Equipment Operation and Maintenance Waste		Pu-239	7.28E-01
	Cellulosics	105.00	0.00	0.00				Pu-240	1.63E-01
	Rubber	45.00	0.00	0.00				Pu-241	3.30E+00
	Plastics	107.00	0.00	0.00				Pu-242	9.80E-06
	Solidified, Inorganic Matrix	15.00	0.00	0.00				Sr-90	8.19E-05
	Cement (Solidified)	0.00	0.00	0.00				Y-90	8.19E-05
	Vitrified	0.00	0.00	0.00					
	Solidified, Organic Matrix	0.00	0.00	0.00					
	Soils	18.00	0.00	0.00					
	Packaging Material, Steel	131.00							
	Packaging Material, Plastic	37.00							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T106													
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	8.1	0.0	0.0	0.0	0.0	8.1	55 Gallon Drum	8.1	0.0	0.0	0.0	0.0	8.1
As-Generated	Stored 8.1	Projected 0.0	Total 8.1			Final Form	Stored 8.1	Projected 0.0	Total 8.1				

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TWBIR ID: RL-T106

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.

Waste Stream Source Description This waste stream consists of TRU waste from the REDOX Fuel Reprocessing Facility.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

Acceptance Comments N/A

Final Form Comments Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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TWBIR ID: RL-T107

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W242	Handling	CH	Stream Name	234-5Z TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	RL	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5440

EPA Codes
As-Generated
N/A

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	633.79	0.00	0.00	
Aluminum-Base Metal/Alloys	130.30	0.00	0.00	
Other Metal/Alloys	0.00	0.00	0.00	
Other Inorganic Materials	41.10	0.00	0.00	
Cellulosics	55.51	0.00	0.00	
Rubber	21.36	0.00	0.00	
Plastics	63.22	0.00	0.00	
Solidified, Inorganic Matrix	9.40	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	8.48	0.00	0.00	
Packaging Material, Steel	143.16			
Packaging Material, Plastic	18.07			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors		TRUCON Codes
Category:	Defense TRU Waste	Unassigned
Residues:	No	
Asbestos:	No	
PCBs:	No	
Source:	Facility/Equipment Operation and Maintenance Waste	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	6.42E-04
Ba-137m	5.54E-03
Cs-137	6.03E-03
Pu-238	1.58E+01
Pu-239	2.65E+00
Pu-240	5.92E-01
Pu-241	1.19E+01
Pu-242	3.57E-05
Sr-90	5.62E-03
Th-232	1.01E-08
U-233	6.76E-05
U-234	1.37E-04
U-235	3.07E-06
U-238	5.70E-05

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T107													
As-Generated Volumes							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	2901.4	0.0	0.0	0.0	0.0	2901.4	55 Gallon Drum	2901.4	0.0	0.0	0.0	0.0	2901.4
Standard Waste Box	3254.7	0.0	0.0	0.0	0.0	3254.7	Standard Waste Box	3254.7	0.0	0.0	0.0	0.0	3254.7
As-Generated	Stored	6156.1	Projected	0.0	Total	6156.1	Final Form	Stored	6156.1	Projected	0.0	Total	6156.1

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TWBIR ID: RL-T107

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides
(Continued)

Isotope	Typical Concentration (Ci/m3)
Y-90	5.62E-03

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description This waste stream consists of TRU waste from the Plutonium Finishing Plant.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.

Acceptance Comments The contact-handled TRU waste from Building 2345Z was reported in Waste Nos. RL-T146 and RL-T150 in Revision 1 of the WTWBIR. This waste is reported in RL-T107 in Revision 2; RL-T146 and RL-T150 have been deleted in Revision 2.

Final Form Comments Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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TWBIR ID: RL-T108

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W243	Handling	CH	Stream Name	Misc 200 West Area TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	RL	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5440

EPA Codes	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	Unassigned	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	700.02	0.00	0.00	Residues:	No		Ba-137m	9.32E-05
	Aluminum-Base Metal/Alloys	165.36	0.00	0.00	Asbestos:	No		Cs-137	1.02E-04
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	No		Pu-238	8.72E-02
	Other Inorganic Materials	39.56	0.00	0.00	Source:	Facility/Equipment Operation and Maintenance Waste		Pu-239	4.82E-02
	Cellulosics	15.44	0.00	0.00				Pu-240	1.08E-02
	Rubber	4.62	0.00	0.00				Pu-241	2.18E-01
	Plastics	27.78	0.00	0.00				Pu-242	6.51E-07
	Solidified, Inorganic Matrix	4.86	0.00	0.00				Sr-90	9.45E-05
	Cement (Solidified)	0.00	0.00	0.00				U-234	1.52E-07
	Vitrified	0.00	0.00	0.00				U-235	6.79E-09
	Solidified, Organic Matrix	0.00	0.00	0.00				U-238	1.48E-07
	Soils	0.78	0.00	0.00				Y-90	9.45E-05
	Packaging Material, Steel	153.01							
	Packaging Material, Plastic	2.75							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T108													
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	0.0	0.0	0.0	0.0	8.3	55 Gallon Drum	8.3	0.0	0.0	0.0	0.0	8.3
Standard Waste Box	184.3	0.0	0.0	0.0	0.0	184.3	Standard Waste Box	184.3	0.0	0.0	0.0	0.0	184.3
As-Generated	Stored	192.6	Projected	0.0	Total	192.6	Final Form	Stored	192.6	Projected	0.0	Total	192.6

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TWBIR ID: RL-T108

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixtures, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
Waste Stream Source Description	This waste stream consists of TRU waste from the 200 Area Waste Tank Farms and other miscellaneous sources in the Chemical Separations Area.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights of final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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TWBIR ID: RL-T109

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W244	Handling	CH	Stream Name	308 Bldg TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	RL	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5440

EPA Codes	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated N/A	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	Unassigned	Isotope	Typical Concentration (Ci/m3)
	Iron-Base Metal/Alloys	641.43	0.00	0.00	Residues:	No		Am-241	3.71E-03
	Aluminum-Base Metal/Alloys	134.35	0.00	0.00	Asbestos:	No		Ba-137m	4.97E-04
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	No		Cs-137	5.41E-04
	Other Inorganic Materials	40.92	0.00	0.00	Source:	Other/Multiple Sources		Pu-238	1.75E-02
	Cellulosics	50.89	0.00	0.00				Pu-239	6.24E-01
	Rubber	19.15	0.00	0.00				Pu-240	1.40E-01
	Plastics	59.13	0.00	0.00				Pu-241	2.82E+00
	Solidified, Inorganic Matrix	8.87	0.00	0.00				Pu-242	8.43E-06
	Cement (Solidified)	0.00	0.00	0.00				Sr-90	5.04E-04
	Vitrified	0.00	0.00	0.00				U-233	5.54E-03
	Solidified, Organic Matrix	0.00	0.00	0.00				U-234	1.18E-03
	Soils	7.59	0.00	0.00				U-235	1.57E-05
	Packaging Material, Steel	144.30						U-238	4.03E-04
	Packaging Material, Plastic	16.30						Y-90	5.04E-04
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T109													
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	0.0	0.0	0.0	0.0	8.3	55 Gallon Drum	8.3	0.0	0.0	0.0	0.0	8.3
Standard Waste Box	11.4	0.0	0.0	0.0	0.0	11.4	Standard Waste Box	11.4	0.0	0.0	0.0	0.0	11.4
As-Generated	Stored 19.7	Projected 0.0	Total 19.7			Final Form	Stored 19.7	Projected 0.0	Total 19.7				

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TWBIR ID: RL-T109

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description This waste stream consists of TRU waste from the Fuels Development Laboratory.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Wastes in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.

Acceptance Comments N/A

Final Form Comments Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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TWBIR ID: RL-T110

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W245	Handling	CH	Stream Name	324, 325 and 327 Bldg Oper TRU Waste			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	RL	Final Waste Form	Heterogeneous Debris	Waste Matrix Code	S5440

EPA Codes	Waste Material Parameters (kg/m3)			
As-Generated	Material Parameter	Average	Lower	Upper
N/A	Iron-Base Metal/Alloys	592.46	0.00	0.00
	Aluminum-Base Metal/Alloys	108.42	0.00	0.00
	Other Metal/Alloys	0.00	0.00	0.00
	Other Inorganic Materials	42.06	0.00	0.00
	Cellulosics	80.52	0.00	0.00
	Rubber	33.30	0.00	0.00
	Plastics	85.35	0.00	0.00
	Solidified, Inorganic Matrix	12.23	0.00	0.00
	Cement (Solidified)	0.00	0.00	0.00
	Vitrified	0.00	0.00	0.00
	Solidified, Organic Matrix	0.00	0.00	0.00
	Soils	13.29	0.00	0.00
	Packaging Material, Steel	137.01		
	Packaging Material, Plastic	27.64		
	Packaging Material, Lead	0.00		
	Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors		TRUCON Codes
Category:	Defense TRU Waste	Unassigned
Residues:	No	
Asbestos:	No	
PCBs:	No	
Source:	Facility/Equipment Operation and Maintenance Waste	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	5.62E-03
Ba-137m	9.67E-03
Cs-137	1.05E-02
Pu-238	1.34E-01
Pu-239	2.86E+00
Pu-240	6.41E-01
Pu-241	1.30E+01
Pu-242	3.86E-05
Sr-90	9.80E-03
Th-232	5.17E-06
U-233	2.30E-04
U-234	2.76E-03
U-235	1.33E-04
U-238	3.86E-04

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T110													
As-Generated Volumes						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	364.8	0.0	0.0	0.0	0.0	364.8	55 Gallon Drum	364.8	0.0	0.0	0.0	0.0	364.8
Standard Waste Box	129.2	0.0	0.0	0.0	0.0	129.2	Standard Waste Box	129.2	0.0	0.0	0.0	0.0	129.2
As-Generated	Stored 494.0	Projected 0.0	Total 494.0			Final Form	Stored 494.0	Projected 0.0	Total 494.0				

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TWBIR ID: RL-T110

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides
(Continued)

Isotope	Typical Concentration (Ci/m3)
Y-90	9.80E-03

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description This waste stream consists of contact-handled TRU waste from the Chemical Materials Engineering Laboratory and Post Irradiation Test Laboratory.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.

Acceptance Comments The contact-handled TRU waste from Building 327C was reported as Waste No. RL-T111A in Revision 1 of the WTWBIR. RL-T111A has been deleted in Revision 2 of the WTWBIR.

Final Form Comments Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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TWBIR ID: RL-T112

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W246	Handling	CH	Stream Name	340 Bldg Oper and R&D TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	RL	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5440

EPA Codes
As-Generated
N/A

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	650.16	0.00	0.00	
Aluminum-Base Metal/Alloys	138.97	0.00	0.00	
Other Metal/Alloys	0.00	0.00	0.00	
Other Inorganic Materials	40.72	0.00	0.00	
Cellulosics	45.61	0.00	0.00	
Rubber	16.62	0.00	0.00	
Plastics	54.46	0.00	0.00	
Solidified, Inorganic Matrix	8.27	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	6.58	0.00	0.00	
Packaging Material, Steel	145.59			
Packaging Material, Plastic	14.28			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors		TRUCON Codes
Category:	Defense TRU Waste	Unassigned
Residues:	No	
Asbestos:	No	
PCBs:	No	
Source:	Other/Multiple Sources	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	4.42E-01
Ba-137m	7.80E-04
Cs-137	8.48E-04
Pu-238	2.02E-01
Pu-239	1.36E+00
Pu-240	3.04E-01
Pu-241	6.15E+00
Pu-242	1.83E-05
Sr-90	7.91E-04
Th-232	1.95E-06
U-233	5.71E-05
U-234	5.34E-03
U-235	3.71E-04
U-238	2.32E-04

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T112													
As-Generated Volumes							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	50.3	0.0	0.0	0.0	0.0	50.3	55 Gallon Drum	50.3	0.0	0.0	0.0	0.0	50.3
Standard Waste Box	87.4	0.0	0.0	0.0	0.0	87.4	Standard Waste Box	87.4	0.0	0.0	0.0	0.0	87.4
As-Generated	Stored 137.7	Projected 0.0	Total 137.7					Final Form	Stored 137.7	Projected 0.0	Total 137.7		

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TWBIR ID: RL-T112

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides
(Continued)

Isotope	Typical Concentration (Ci/m3)
Y-90	7.91E-04

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description This waste stream consists of TRU waste from the Retention and Neutralization Facility.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.

Acceptance Comments N/A

Final Form Comments Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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TWBIR ID: RL-T113

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W247	Handling	CH	Stream Name	100 Areas and 200 Areas R&D TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	RL	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5440

EPA Codes	Waste Material Parameters (kg/m3)			
As-Generated	Material Parameter	Average	Lower	Upper
N/A	Iron-Base Metal/Alloys	641.29	0.00	0.00
	Aluminum-Base Metal/Alloys	134.27	0.00	0.00
	Other Metal/Alloys	0.00	0.00	0.00
	Other Inorganic Materials	40.92	0.00	0.00
	Cellulosics	50.98	0.00	0.00
	Rubber	19.19	0.00	0.00
	Plastics	59.21	0.00	0.00
	Solidified, Inorganic Matrix	8.88	0.00	0.00
	Cement (Solidified)	0.00	0.00	0.00
	Vitrified	0.00	0.00	0.00
	Solidified, Organic Matrix	0.00	0.00	0.00
	Soils	7.61	0.00	0.00
	Packaging Material, Steel	144.27		
	Packaging Material, Plastic	16.34		
	Packaging Material, Lead	0.00		
	Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors	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)
Ba-137m	1.86E-04
Cs-137	2.02E-04
Pu-238	1.26E-03
Pu-239	1.44E-02
Pu-240	3.23E-03
Pu-241	6.52E-02
Pu-242	1.95E-07
Sr-90	1.89E-04
Y-90	1.89E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T113													
As-Generated Volumes							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	18.1	0.0	0.0	0.0	0.0	18.1	55 Gallon Drum	18.1	0.0	0.0	0.0	0.0	18.1
Standard Waste Box	24.7	0.0	0.0	0.0	0.0	24.7	Standard Waste Box	24.7	0.0	0.0	0.0	0.0	24.7
As-Generated	Stored 42.8	Projected 0.0	Total 42.8				Final Form	Stored 42.8	Projected 0.0	Total 42.8			

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TWBIR ID: RL-T113

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
Waste Stream Source Description	This waste stream consists of TRU waste from the Biological Laboratory, Radioactive Particle Research Laboratory, and other R&D Sources in the Reactor and Chemical Separation Areas.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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Annex J

TWBIR ID: RL-T114

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W248	Handling	CH	Stream Name	209 E Bldg TRU Waste			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	RL	Final Waste Form	Heterogeneous Debris		
Waste Matrix Code		S5440							

EPA Codes	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	Unassigned	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	567.01	0.00	0.00	Residues:	No		Ba-137m	2.39E-03
	Aluminum-Base Metal/Alloys	94.95	0.00	0.00	Asbestos:	No		Cs-137	2.60E-03
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	No		Pu-238	1.34E-01
	Other Inorganic Materials	42.65	0.00	0.00	Source:	R&D/R&D Laboratory Waste		Pu-239	4.78E+00
	Cellulosics	95.92	0.00	0.00				Pu-240	1.07E+00
	Rubber	40.66	0.00	0.00				Pu-241	2.16E+01
	Plastics	98.97	0.00	0.00				Pu-242	6.45E-05
	Solidified, Inorganic Matrix	13.97	0.00	0.00				Sr-90	2.43E-03
	Cement (Solidified)	0.00	0.00	0.00				Y-90	2.43E-03
	Vitrified	0.00	0.00	0.00					
	Solidified, Organic Matrix	0.00	0.00	0.00					
	Soils	16.25	0.00	0.00					
	Packaging Material, Steel	133.23							
	Packaging Material, Plastic	33.53							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T114													
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	17.7	0.0	0.0	0.0	0.0	17.7	55 Gallon Drum	17.7	0.0	0.0	0.0	0.0	17.7
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9	Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9
As-Generated	Stored 19.6	Projected 0.0	Total 19.6				Final Form	Stored 19.6	Projected 0.0	Total 19.6			

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TWBIR ID: RL-T114

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description This waste stream consists of TRU waste from the Critical Mass Laboratory.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.

Acceptance Comments N/A

Final Form Comments Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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TWBIR ID: RL-T115

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W249	Handling	CH	Stream Name	231-Z Bldg TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	RL	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5440

EPA Codes
As-Generated
N/A

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	677.55	0.00	0.00	
Aluminum-Base Metal/Alloys	153.47	0.00	0.00	
Other Metal/Alloys	0.00	0.00	0.00	
Other Inorganic Materials	40.08	0.00	0.00	
Cellulosics	29.04	0.00	0.00	
Rubber	8.71	0.00	0.00	
Plastics	39.80	0.00	0.00	
Solidified, Inorganic Matrix	6.40	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	3.39	0.00	0.00	
Packaging Material, Steel	149.67			
Packaging Material, Plastic	7.95			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors		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	1.53E-01
Ba-137m	1.74E-04
Cs-137	1.89E-04
Pu-238	8.31E-02
Pu-239	1.20E+00
Pu-240	2.69E-01
Pu-241	6.08E+00
Pu-242	1.62E-05
Sr-90	1.73E-04
Tc-99	3.96E-08
Th-232	4.35E-08
U-234	4.03E-04
U-235	1.14E-06
U-238	4.45E-05

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T115													
As-Generated Volumes							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	193.2	0.0	0.0	0.0	0.0	193.2	55 Gallon Drum	193.2	0.0	0.0	0.0	0.0	193.2
Standard Waste Box	832.2	0.0	0.0	0.0	0.0	832.2	Standard Waste Box	832.2	0.0	0.0	0.0	0.0	832.2
As-Generated	Stored	1025.4	Projected	0.0	Total	1025.4	Final Form	Stored	1025.4	Projected	0.0	Total	1025.4

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TWBIR ID: RL-T115

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides
(Continued)

Isotope	Typical Concentration (Ci/m3)
Y-90	1.73E-04

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description This waste stream consists of TRU waste from the Materials Engineering Laboratory.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.

Acceptance Comments N/A

Final Form Comments Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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TWBIR ID: RL-T116

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W250	Handling	CH	Stream Name	303C Bldg TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	RL	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5440

EPA Codes	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated N/A	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	Unassigned	Isotope	Typical Concentration (Ci/m3)
	Iron-Base Metal/Alloys	552.00	0.00	0.00	Residues:	No		Ba-137m	8.71E-01
	Aluminum-Base Metal/Alloys	87.00	0.00	0.00	Asbestos:	No		Cs-137	9.49E-01
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	No		Pu-238	3.92E-01
	Other Inorganic Materials	43.00	0.00	0.00	Source:	R&D/R&D Laboratory Waste		Pu-239	1.39E+01
	Cellulosics	105.00	0.00	0.00				Pu-240	3.12E+00
	Rubber	45.00	0.00	0.00				Pu-241	6.31E+01
	Plastics	107.00	0.00	0.00				Pu-242	1.88E-04
	Solidified, Inorganic Matrix	15.00	0.00	0.00				Sr-90	8.84E-01
	Cement (Solidified)	0.00	0.00	0.00				Th-232	3.21E-03
	Vitrified	0.00	0.00	0.00				U-233	4.27E+00
	Solidified, Organic Matrix	0.00	0.00	0.00				U-234	5.10E-03
	Soils	18.00	0.00	0.00				U-235	5.24E-04
	Packaging Material, Steel	131.00						U-238	5.64E-06
	Packaging Material, Plastic	37.00						Y-90	8.84E-01
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T116													
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	11.0	0.0	0.0	0.0	0.0	11.0	55 Gallon Drum	11.0	0.0	0.0	0.0	0.0	11.0
As-Generated	Stored 11.0	Projected 0.0	Total 11.0			Final Form	Stored 11.0	Projected 0.0	Total 11.0				

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TWBIR ID: RL-T116

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.

Waste Stream Source Description This waste stream consists of TRU waste from the Material Evaluation Laboratory.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

Acceptance Comments N/A

Final Form Comments Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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TWBIR ID: RL-T118

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W251	Handling	CH	Stream Name	300 Area R&D TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	RL	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5440

EPA Codes	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated N/A	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	Unassigned	Isotope	Typical Concentration (Ci/m3)
	Iron-Base Metal/Alloys	572.20	0.00	0.00	Residues:	No		Am-241	1.45E-01
	Aluminum-Base Metal/Alloys	97.69	0.00	0.00	Asbestos:	No		Ba-137m	1.40E-03
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	No		Cs-137	1.52E-03
	Other Inorganic Materials	42.53	0.00	0.00	Source:	R&D/R&D Laboratory Waste		Pu-238	1.32E-01
	Cellulosics	92.78	0.00	0.00				Pu-239	5.82E-01
	Rubber	39.16	0.00	0.00				Pu-240	1.30E-01
	Plastics	96.19	0.00	0.00				Pu-241	2.63E+00
	Solidified, Inorganic Matrix	13.62	0.00	0.00				Pu-242	7.85E-06
	Cement (Solidified)	0.00	0.00	0.00				Sr-90	1.42E-03
	Vitrified	0.00	0.00	0.00				Th-232	1.26E-05
	Solidified, Organic Matrix	0.00	0.00	0.00				U-233	9.48E-05
	Soils	15.65	0.00	0.00				U-234	3.18E-03
	Packaging Material, Steel	134.00						U-235	6.33E-05
	Packaging Material, Plastic	32.33						U-238	6.00E-04
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T118													
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	227.8	0.0	0.0	0.0	0.0	227.8	55 Gallon Drum	227.8	0.0	0.0	0.0	0.0	227.8
Standard Waste Box	34.2	0.0	0.0	0.0	0.0	34.2	Standard Waste Box	34.2	0.0	0.0	0.0	0.0	34.2
As-Generated	Stored	262.0	Projected	0.0	Total	262.0	Final Form	Stored	262.0	Projected	0.0	Total	262.0

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TWBIR ID: RL-T118

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides
(Continued)

Isotope	Typical Concentration (Ci/m3)
Y-90	1.42E-03

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description This waste stream consists of contact-handled TRU waste from the Radiological Calibrations Laboratory, Chemical Engineering Building, Radiochemistry Building laboratory and hot cells, and cesium recovery facility of the Radiochemistry Building, and Radioanalytical Laboratory.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.

Acceptance Comments The contact-handled TRU waste from Building 318 was reported as Waste No. RL-T117 in Revision 1 of the WTWBIR. This waste is reported in RL-T118 in Revision 2; RL-T117 has been deleted.

Final Form Comments Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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TWBIR ID: RL-T120

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W252	Handling	CH	Stream Name	TRU Construction Debris			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	RL	Final Waste Form	Heterogeneous Debris		
Waste Matrix Code		S5440							

EPA Codes	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	Unassigned	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	655.24	0.00	0.00	Residues:	No		Am-241	4.93E-02
	Aluminum-Base Metal/Alloys	141.66	0.00	0.00	Asbestos:	No		Ba-137m	4.96E-04
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	No		Cs-137	5.40E-04
	Other Inorganic Materials	40.60	0.00	0.00	Source:	Facility/Equipment Operation and Maintenance Waste		Pu-238	2.71E-02
	Cellulosics	42.54	0.00	0.00				Pu-239	3.37E-01
	Rubber	15.16	0.00	0.00				Pu-240	7.49E-02
	Plastics	51.74	0.00	0.00				Pu-241	1.81E+00
	Solidified, Inorganic Matrix	7.93	0.00	0.00				Pu-242	4.45E-06
	Cement (Solidified)	0.00	0.00	0.00				Sr-90	4.92E-04
	Vitrified	0.00	0.00	0.00				Tc-99	1.15E-07
	Solidified, Organic Matrix	0.00	0.00	0.00				U-234	4.22E-09
	Soils	5.99	0.00	0.00				U-235	1.89E-10
	Packaging Material, Steel	146.35						U-238	4.11E-09
	Packaging Material, Plastic	13.11						Y-90	4.92E-04
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T120													
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	44.5	0.0	0.0	0.0	0.0	44.5	55 Gallon Drum	44.5	0.0	0.0	0.0	0.0	44.5
Standard Waste Box	89.3	0.0	0.0	0.0	0.0	89.3	Standard Waste Box	89.3	0.0	0.0	0.0	0.0	89.3
As-Generated	Stored	133.8	Projected	0.0	Total	133.8	Final Form	Stored	133.8	Projected	0.0	Total	133.8

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TWBIR ID: RL-T120

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description This waste stream consists of TRU waste from the construction activities.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.

Acceptance Comments N/A

Final Form Comments Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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TWBIR ID: RL-T121

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W253	Handling	RH	Stream Name	105-KE Bldg TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	RL	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5440

EPA Codes	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	Unassigned	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	710.00	0.00	0.00	Residues:	No		Ba-137m	5.19E-01
	Aluminum-Base Metal/Alloys	164.50	0.00	0.00	Asbestos:	No		Cs-137	5.63E-01
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	No		Pu-238	1.78E-02
	Other Inorganic Materials	41.00	0.00	0.00	Source:	Facility/Equipment Operation and Maintenance Waste		Pu-239	1.17E-01
	Cellulosics	22.50	0.00	0.00				Pu-240	5.83E-02
	Rubber	6.60	0.00	0.00				Pu-241	2.89E+00
	Plastics	34.60	0.00	0.00				Pu-242	1.72E-06
	Solidified, Inorganic Matrix	5.70	0.00	0.00				Sr-90	5.25E-01
	Cement (Solidified)	0.00	0.00	0.00				Y-90	5.25E-01
	Vitrified	0.00	0.00	0.00					
	Solidified, Organic Matrix	0.00	0.00	0.00					
	Soils	2.10	0.00	0.00					
	Packaging Material, Steel	434.00							
	Packaging Material, Plastic	0.00							
	Packaging Material, Lead	464.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T121													
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	53.4	0.0	0.0	0.0	0.0	53.4	RH Canister	53.4	0.0	0.0	0.0	0.0	53.4
As-Generated	Stored 53.4	Projected 0.0	Total 53.4			Final Form	Stored 53.4	Projected 0.0	Total 53.4				

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

TWBIR ID: RL-T121

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description This waste stream consists of remote-handled TRU waste from the operation of the Fuel Storage Basins.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.2A, Radioactive Waste Management. Upper and lower weights of final waste form are unknown.

Acceptance Comments N/A

Final Form Comments Upper and lower weights of final waste form are unknown.

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

TWBIR ID: RL-T122

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W254	Handling	CH	Stream Name	105-C, 105KE, and 105-N Bldg TRU Waste			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	RL	Final Waste Form	Heterogeneous Debris	Waste Matrix Code	S5440

EPA Codes	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated N/A	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	Unassigned	Isotope	Typical Concentration (Ci/m3)
	Iron-Base Metal/Alloys	692.43	0.00	0.00	Residues:	No		Ba-137m	2.82E-01
	Aluminum-Base Metal/Alloys	161.34	0.00	0.00	Asbestos:	No		Cs-137	3.07E-01
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	No		Pu-238	5.22E-03
	Other Inorganic Materials	39.73	0.00	0.00	Source:	Facility/Equipment Operation and Maintenance Waste		Pu-239	1.85E-01
	Cellulosics	20.04	0.00	0.00				Pu-240	4.17E-02
	Rubber	4.41	0.00	0.00				Pu-241	8.39E-01
	Plastics	31.84	0.00	0.00				Pu-242	2.50E-06
	Solidified, Inorganic Matrix	5.38	0.00	0.00				Sr-90	2.85E-01
	Cement (Solidified)	0.00	0.00	0.00				Th-232	3.78E-06
	Vitrified	0.00	0.00	0.00				U-234	4.98E-02
	Solidified, Organic Matrix	0.00	0.00	0.00				U-235	5.13E-03
	Soils	1.66	0.00	0.00				U-238	5.52E-05
	Packaging Material, Steel	151.88						Y-90	2.85E-01
	Packaging Material, Plastic	4.50							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T122													
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	2.7	0.0	0.0	0.0	0.0	2.7	55 Gallon Drum	2.7	0.0	0.0	0.0	0.0	2.7
Standard Waste Box	26.6	0.0	0.0	0.0	0.0	26.6	Standard Waste Box	26.6	0.0	0.0	0.0	0.0	26.6
As-Generated	Stored 29.3	Projected 0.0	Total 29.3				Final Form	Stored 29.3	Projected 0.0	Total 29.3			

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TWBIR ID: RL-T122

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description This waste stream consists of TRU waste from the operation of the reactors.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.

Acceptance Comments N/A

Final Form Comments Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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TWBIR ID: RL-T123

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W255	Handling	CH	Stream Name	Argonne Nat Lab Type 1 TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	AE	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5440

EPA Codes	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	Unassigned	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	552.00	0.00	0.00	Residues:	No		Pu-238	7.18E-01
	Aluminum-Base Metal/Alloys	87.00	0.00	0.00	Asbestos:	No		Pu-239	2.55E+01
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	No		Pu-240	5.74E+00
	Other Inorganic Materials	43.00	0.00	0.00	Source:	R&D/R&D Laboratory Waste		Pu-241	1.16E+02
	Cellulosics	105.00	0.00	0.00				Pu-242	3.46E-04
	Rubber	45.00	0.00	0.00				Th-232	1.44E-05
	Plastics	107.00	0.00	0.00				U-234	9.56E-02
	Solidified, Inorganic Matrix	15.00	0.00	0.00				U-235	9.81E-03
	Cement (Solidified)	0.00	0.00	0.00				U-238	1.06E-04
	Vitrified	0.00	0.00	0.00					
	Solidified, Organic Matrix	0.00	0.00	0.00					
	Soils	18.00	0.00	0.00					
	Packaging Material, Steel	131.00							
	Packaging Material, Plastic	37.00							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T123													
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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TWBIR ID: RL-T123

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.
Waste Stream Source Description	This waste stream consists of contact-handled TRU waste from the Argonne National Laboratory-East.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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TWBIR ID: RL-T124

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W256	Handling	RH	Stream Name	Argonne Nat Lab Type II TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	AE	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5440

EPA Codes	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	Unassigned	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	744.80	0.00	0.00	Residues:	No		Ba-137m	2.55E+01
	Aluminum-Base Metal/Alloys	117.60	0.00	0.00	Asbestos:	No		Cs-137	2.78E+01
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	No		Sr-90	2.58E+01
	Other Inorganic Materials	57.50	0.00	0.00	Source:	R&D/R&D Laboratory Waste		Th-232	1.56E-04
	Cellulosics	141.30	0.00	0.00				U-233	2.03E-01
	Rubber	60.30	0.00	0.00				Y-90	2.58E+01
	Plastics	144.70	0.00	0.00					
	Solidified, Inorganic Matrix	20.70	0.00	0.00					
	Cement (Solidified)	0.00	0.00	0.00					
	Vitrified	0.00	0.00	0.00					
	Solidified, Organic Matrix	0.00	0.00	0.00					
	Soils	24.40	0.00	0.00					
	Packaging Material, Steel	434.00							
	Packaging Material, Plastic	0.00							
	Packaging Material, Lead	464.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T124													
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	0.9	0.0	0.0	0.0	0.0	0.9	RH Canister	0.9	0.0	0.0	0.0	0.0	0.9
As-Generated	Stored 0.9	Projected 0.0	Total 0.9			Final Form	Stored 0.9	Projected 0.0	Total 0.9				

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TWBIR ID: RL-T124

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.

Waste Stream Source Description This waste stream consists of remote-handled TRU waste from the Argonne National Laboratory-East.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.2A, Radioactive Waste Management. Upper and lower weights of final waste form are unknown.

Acceptance Comments This waste stream was erroneously identified as contact-handled TRU waste in Revision 1 of the WTWBIR. It has been reclassified as remote-handled waste in Revision 2 of the WTWBIR.

Final Form Comments Upper and lower weights of final waste form are unknown.

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TWBIR ID: RL-T125

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W257	Handling	CH	Stream Name	Argonne Nat Lab Type III TRU Waste			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	AE	Final Waste Form	Heterogeneous Debris	Waste Matrix Code	S5440

EPA Codes	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	Unassigned	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	552.00	0.00	0.00	Residues:	No		Am-241	7.06E+00
	Aluminum-Base Metal/Alloys	87.00	0.00	0.00	Asbestos:	No		Ba-137m	9.62E-05
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	No		Cs-137	1.05E-04
	Other Inorganic Materials	43.00	0.00	0.00	Source:	R&D/R&D Laboratory Waste		Pu-238	7.30E+00
	Cellulosics	105.00	0.00	0.00				Pu-239	2.19E+01
	Rubber	45.00	0.00	0.00				Pu-240	1.13E+01
	Plastics	107.00	0.00	0.00				Pu-241	7.47E+02
	Solidified, Inorganic Matrix	15.00	0.00	0.00				Pu-242	4.93E-03
	Cement (Solidified)	0.00	0.00	0.00				Sr-90	9.58E-05
	Vitrified	0.00	0.00	0.00				Tc-99	2.08E-08
	Solidified, Organic Matrix	0.00	0.00	0.00				Th-232	1.70E-04
	Soils	18.00	0.00	0.00				U-233	2.92E-01
	Packaging Material, Steel	131.00						Y-90	9.58E-05
	Packaging Material, Plastic	37.00							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T125													
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	15.2	0.0	0.0	0.0	0.0	15.2	55 Gallon Drum	15.2	0.0	0.0	0.0	0.0	15.2
As-Generated	Stored	15.2	Projected	0.0	Total	15.2	Final Form	Stored	15.2	Projected	0.0	Total	15.2

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TWBIR ID: RL-T125

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.

Waste Stream Source Description This waste stream consists of contact-handled TRU waste from the Argonne National Laboratory-East.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

Acceptance Comments N/A

Final Form Comments Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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TWBIR ID: RL-T127

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W258	Handling	CH	Stream Name	Babcock Wilcox TRU Waste			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	N/A	Final Waste Form	Heterogeneous Debris	Waste Matrix Code	S5440

EPA Codes	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	Unassigned	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	617.29	0.00	0.00	Residues:	No		Am-241	1.14E+00
	Aluminum-Base Metal/Alloys	121.57	0.00	0.00	Asbestos:	No		Ba-137m	2.94E-03
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	No		Cs-137	3.20E-03
	Other Inorganic Materials	41.48	0.00	0.00	Source:	R&D/R&D Laboratory Waste		Pu-238	9.82E-02
	Cellulosics	65.49	0.00	0.00				Pu-239	3.51E+00
	Rubber	26.13	0.00	0.00				Pu-240	7.85E-01
	Plastics	72.05	0.00	0.00				Pu-241	1.59E+01
	Solidified, Inorganic Matrix	10.53	0.00	0.00				Pu-242	4.73E-05
	Cement (Solidified)	0.00	0.00	0.00				Sr-90	2.98E-03
	Vitrified	0.00	0.00	0.00				U-234	2.82E-04
	Solidified, Organic Matrix	0.00	0.00	0.00				U-235	5.96E-07
	Soils	10.40	0.00	0.00				U-238	3.32E-05
	Packaging Material, Steel	140.71						Y-90	2.98E-03
	Packaging Material, Plastic	21.89							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T127													
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	163.9	0.0	0.0	0.0	0.0	163.9	55 Gallon Drum	163.9	0.0	0.0	0.0	0.0	163.9
Standard Waste Box	119.7	0.0	0.0	0.0	0.0	119.7	Standard Waste Box	119.7	0.0	0.0	0.0	0.0	119.7
As-Generated	Stored	283.6	Projected	0.0	Total	283.6	Final Form	Stored	283.6	Projected	0.0	Total	283.6

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TWBIR ID: RL-T127

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description This waste stream consists of contact-handled TRU waste from the Babcock Wilcox.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.

Acceptance Comments N/A

Final Form Comments Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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TWBIR ID: RL-T128

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W259	Handling	CH	Stream Name	Bartlesville TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	N/A	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5440

EPA Codes
As-Generated
N/A

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	552.00	0.00	0.00	
Aluminum-Base Metal/Alloys	87.00	0.00	0.00	
Other Metal/Alloys	0.00	0.00	0.00	
Other Inorganic Materials	43.00	0.00	0.00	
Cellulosics	105.00	0.00	0.00	
Rubber	45.00	0.00	0.00	
Plastics	107.00	0.00	0.00	
Solidified, Inorganic Matrix	15.00	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	18.00	0.00	0.00	
Packaging Material, Steel	131.00			
Packaging Material, Plastic	37.00			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors	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	1.70E+00
Ba-137m	4.74E-02
C-14	2.67E+00
Cs-137	5.15E-02
H-3	8.06E+00
Pu-238	1.63E-06
Pu-239	5.81E-05
Pu-240	1.30E-05
Pu-241	2.63E-04
Pu-242	7.85E-10
Sr-90	4.80E-02
Y-90	4.80E-02

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T128													
As-Generated Volumes						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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TWBIR ID: RL-T128

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.
Waste Stream Source Description	This waste stream consists of contact-handled TRU waste from Bartlesville.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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TWBIR ID: RL-T129

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W260	Handling	CH	Stream Name	Battelle Columbus TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	BC	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5440

EPA Codes
As-Generated
N/A

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	644.02	0.00	0.00	
Aluminum-Base Metal/Alloys	135.72	0.00	0.00	
Other Metal/Alloys	0.00	0.00	0.00	
Other Inorganic Materials	40.86	0.00	0.00	
Cellulosics	49.32	0.00	0.00	
Rubber	18.40	0.00	0.00	
Plastics	57.75	0.00	0.00	
Solidified, Inorganic Matrix	8.69	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	7.29	0.00	0.00	
Packaging Material, Steel	144.68			
Packaging Material, Plastic	15.71			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors		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)
Ba-137m	2.40E-03
Cs-137	2.61E-03
Pu-238	4.48E+00
Pu-239	4.75E-01
Pu-240	1.06E-01
Pu-241	2.14E+00
Pu-242	6.40E-06
Sr-90	2.44E-03
U-234	2.67E-04
U-235	1.85E-05
U-238	5.74E-05
Y-90	2.44E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T129													
As-Generated Volumes							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	11.6	0.0	0.0	0.0	0.0	11.6	55 Gallon Drum	11.6	0.0	0.0	0.0	0.0	11.6
Standard Waste Box	17.1	0.0	0.0	0.0	0.0	17.1	Standard Waste Box	17.1	0.0	0.0	0.0	0.0	17.1
As-Generated	Stored 28.7	Projected 0.0	Total 28.7					Final Form	Stored 28.7	Projected 0.0	Total 28.7		

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TWBIR ID: RL-T129

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description This waste stream consists of contact-handled TRU waste from Battelle Columbus Laboratory.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.

Acceptance Comments The Type II Battelle Columbus waste reported as Waste No. RL-T130 in Revision 1 of the TWBIR has been merged in Revision 2 with the Type I waste reported in RL-T129. RL-T130 has been replaced in Revision 2 of the TWBIR with TRU waste generated by Bettis Atomic Power Laboratory.

Final Form Comments Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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Annex J

TWBIR ID: RL-T130

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W261	Handling	CH	Stream Name	Bettis TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	BC	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5440

EPA Codes	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	Unassigned	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	552.00	0.00	0.00	Residues:	No		Ba-137m	3.69E-01
	Aluminum-Base Metal/Alloys	87.00	0.00	0.00	Asbestos:	No		Cs-137	4.01E-01
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	No		Pu-238	3.92E-03
	Other Inorganic Materials	43.00	0.00	0.00	Source:	R&D/R&D Laboratory Waste		Pu-239	1.40E-01
	Cellulosics	105.00	0.00	0.00				Pu-240	3.13E-02
	Rubber	45.00	0.00	0.00				Pu-241	6.31E-01
	Plastics	107.00	0.00	0.00				Pu-242	1.88E-06
	Solidified, Inorganic Matrix	15.00	0.00	0.00				Sr-90	3.75E-01
	Cement (Solidified)	0.00	0.00	0.00				U-234	3.99E-04
	Vitrified	0.00	0.00	0.00				U-235	4.09E-05
	Solidified, Organic Matrix	0.00	0.00	0.00				U-238	4.40E-07
	Soils	18.00	0.00	0.00				Y-90	3.75E-01
	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 : RL-T130													
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: RL-T130

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.

Waste Stream Source Description This waste stream consists of contact-handled TRU waste from Bettis Atomic Power Laboratory.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

Acceptance Comments The Type II Battelle Columbus waste reported as Waste No. RL-T130 in Revision 1 of the WTWBIR has been merged in Revision 2 with the Type I waste reported in RL-T129. RL-T130 has been replaced in Revision 2 of the WTWBIR with TRU waste generated by Bettis Atomic Power Laboratory.

Final Form Comments Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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TWBIR ID: RL-T131

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W262	Handling	CH	Stream Name	Energy Systems Group TRU Waste			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	N/A	Final Waste Form	Heterogeneous Debris	Waste Matrix Code	S5440

EPA Codes	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	Unassigned	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	552.00	0.00	0.00	Residues:	No		Am-241	2.70E-02
	Aluminum-Base Metal/Alloys	87.00	0.00	0.00	Asbestos:	No		Ba-137m	2.48E-05
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	No		Cs-137	2.70E-05
	Other Inorganic Materials	43.00	0.00	0.00	Source:	R&D/R&D Laboratory Waste		Pu-238	1.48E-02
	Cellulosics	105.00	0.00	0.00				Pu-239	1.84E-01
	Rubber	45.00	0.00	0.00				Pu-240	4.09E-02
	Plastics	107.00	0.00	0.00				Pu-241	9.82E-01
	Solidified, Inorganic Matrix	15.00	0.00	0.00				Pu-242	2.43E-06
	Cement (Solidified)	0.00	0.00	0.00				Sr-90	2.46E-05
	Vitrified	0.00	0.00	0.00				Tc-99	5.76E-09
	Solidified, Organic Matrix	0.00	0.00	0.00				U-234	2.73E-04
	Soils	18.00	0.00	0.00				U-235	2.78E-05
	Packaging Material, Steel	131.00						U-238	5.71E-07
	Packaging Material, Plastic	37.00						Y-90	2.46E-05
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T131													
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	30.2	0.0	0.0	0.0	0.0	30.2	55 Gallon Drum	30.2	0.0	0.0	0.0	0.0	30.2
As-Generated	Stored 30.2	Projected 0.0	Total 30.2			Final Form	Stored 30.2	Projected 0.0	Total 30.2				

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TWBIR ID: RL-T131

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.
Waste Stream Source Description	This waste stream consists of contact-handled TRU waste from the Energy Systems Group.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.
Acceptance Comments	N/A
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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TWBIR ID: RL-T132

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W263	Handling	CH	Stream Name	Exxon TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	N/A	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5440

EPA Codes
As-Generated
N/A

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	552.00	0.00	0.00	
Aluminum-Base Metal/Alloys	87.00	0.00	0.00	
Other Metal/Alloys	0.00	0.00	0.00	
Other Inorganic Materials	43.00	0.00	0.00	
Cellulosics	105.00	0.00	0.00	
Rubber	45.00	0.00	0.00	
Plastics	107.00	0.00	0.00	
Solidified, Inorganic Matrix	15.00	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	18.00	0.00	0.00	
Packaging Material, Steel	131.00			
Packaging Material, Plastic	37.00			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors		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)
Ba-137m	3.96E-03
Cs-137	4.31E-03
Pu-238	2.74E+00
Pu-239	9.78E+01
Pu-240	2.19E+01
Pu-241	4.41E+02
Pu-242	1.32E-03
Sr-90	4.01E-03
U-234	8.54E-03
U-235	3.81E-04
U-238	8.30E-03
Y-90	4.01E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T132													
As-Generated Volumes						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	28.7	0.0	0.0	0.0	0.0	28.7	55 Gallon Drum	28.7	0.0	0.0	0.0	0.0	28.7
As-Generated	Stored 28.7	Projected 0.0	Total 28.7			Final Form	Stored 28.7	Projected 0.0	Total 28.7				

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TWBIR ID: RL-T132

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.
Waste Stream Source Description	This waste stream consists of contact-handled TRU waste from Exxon.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.
Acceptance Comments	The Exxon waste reported as Waste No. RL-T133 in Revision 1 of the WTWBIR has been merged in Revision 2 with the Exxon waste reported in RL-T132. RL-T133 has been replaced in Revision 2 of the WTWBIR with TRU waste generated by the International Atomic Energy Agency.
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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TWBIR ID: RL-T133

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W264	Handling	CH	Stream Name	International Atomic Energy Agency TRU Waste			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	N/A	Final Waste Form	Heterogeneous Debris	Waste Matrix Code	S5440

EPA Codes
As-Generated
N/A

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	552.00	0.00	0.00	
Aluminum-Base Metal/Alloys	87.00	0.00	0.00	
Other Metal/Alloys	0.00	0.00	0.00	
Other Inorganic Materials	43.00	0.00	0.00	
Cellulosics	105.00	0.00	0.00	
Rubber	45.00	0.00	0.00	
Plastics	107.00	0.00	0.00	
Solidified, Inorganic Matrix	15.00	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	18.00	0.00	0.00	
Packaging Material, Steel	131.00			
Packaging Material, Plastic	37.00			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors		TRUCON Codes
Category:	Defense TRU Waste	Unassigned
Residues:	No	
Asbestos:	No	
PCBs:	No	
Source:	Source Unknown	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	1.30E-02
Ba-137m	4.39E-04
Cs-137	4.77E-04
Pu-238	6.07E-03
Pu-239	2.22E-01
Pu-240	4.97E-02
Pu-241	8.68E-01
Pu-242	2.99E-06
Sr-90	4.35E-04
Tc-99	1.04E-07
Y-90	4.35E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T133													
As-Generated Volumes						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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WTBIR ID: RL-T133

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.

Waste Stream Source Description This waste stream consists of contact-handled TRU waste from the International Atomic Energy Agency.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

Acceptance Comments The Exxon waste reported as Waste No. RL-T133 in Revision 1 of the WTWBIR has been merged in Revision 2 with the Exxon waste reported in RL-T132. RL-T133 has been replaced in Revision 2 of the WTWBIR with TRU waste generated by the International Atomic Energy Agency.

Final Form Comments Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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TWBIR ID: RL-T134

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W265	Handling	CH	Stream Name	Lawrence Berkeley Nat Lab TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	LB	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5440

EPA Codes
As-Generated
N/A

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	552.00	0.00	0.00	
Aluminum-Base Metal/Alloys	87.00	0.00	0.00	
Other Metal/Alloys	0.00	0.00	0.00	
Other Inorganic Materials	43.00	0.00	0.00	
Cellulosics	105.00	0.00	0.00	
Rubber	45.00	0.00	0.00	
Plastics	107.00	0.00	0.00	
Solidified, Inorganic Matrix	15.00	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	18.00	0.00	0.00	
Packaging Material, Steel	131.00			
Packaging Material, Plastic	37.00			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors		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)
Ba-137m	3.41E+00
Cs-137	3.71E+00
Pu-238	1.63E-02
Pu-239	5.82E-01
Pu-240	1.30E-01
Pu-241	2.63E+00
Pu-242	7.85E-06
Sr-90	3.46E+00
Y-90	3.46E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T134													
As-Generated Volumes						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: RL-T134

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.

Waste Stream Source Description This waste stream consists of contact-handled TRU waste from the Lawrence Berkeley National Laboratories.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

Acceptance Comments N/A

Final Form Comments Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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TWBIR ID: RL-T135

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W266	Handling	CH	Stream Name	Lawrence Livermore TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	LL	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5440

EPA Codes
As-Generated
N/A

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	552.00	0.00	0.00	
Aluminum-Base Metal/Alloys	87.00	0.00	0.00	
Other Metal/Alloys	0.00	0.00	0.00	
Other Inorganic Materials	43.00	0.00	0.00	
Cellulosics	105.00	0.00	0.00	
Rubber	45.00	0.00	0.00	
Plastics	107.00	0.00	0.00	
Solidified, Inorganic Matrix	15.00	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	18.00	0.00	0.00	
Packaging Material, Steel	131.00			
Packaging Material, Plastic	37.00			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors		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)
Ba-137m	2.12E-04
Cs-137	2.32E-04
Pu-238	3.81E-02
Pu-239	1.36E+00
Pu-240	3.04E-01
Pu-241	6.14E+00
Pu-242	1.83E-05
Sr-90	2.16E-04
U-234	9.97E-03
U-235	1.78E-05
U-238	1.11E-03
Y-90	2.16E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T135													
As-Generated Volumes						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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TWBIR ID: RL-T135

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.
Waste Stream Source Description	This waste stream consists of contact-handled TRU waste from the Lawrence Livermore National Laboratories.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.
Acceptance Comments	The Type II Lawrence Livermore National Laboratories waste reported as Waste No. RL-T136 in Revision 1 of the WTWBIR has been merged in Revision 2 with the Type I waste reported in RL-T135. RL-T136 has been deleted in Revision 2 of the WTWBIR.
Final Form Comments	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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TWBIR ID: RL-T137

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W267	Handling	CH	Stream Name	Kerr McGee TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	N/A	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5440

EPA Codes	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	Unassigned	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	552.00	0.00	0.00	Residues:	No		Am-241	4.16E+00
	Aluminum-Base Metal/Alloys	87.00	0.00	0.00	Asbestos:	No		Ba-137m	4.80E-03
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	No		Cs-137	5.22E-03
	Other Inorganic Materials	43.00	0.00	0.00	Source:	R&D/R&D Laboratory Waste		Pu-238	2.29E+00
	Cellulosics	105.00	0.00	0.00				Pu-239	2.84E+01
	Rubber	45.00	0.00	0.00				Pu-240	6.33E+00
	Plastics	107.00	0.00	0.00				Pu-241	1.54E+02
	Solidified, Inorganic Matrix	15.00	0.00	0.00				Pu-242	3.76E-04
	Cement (Solidified)	0.00	0.00	0.00				Sr-90	4.77E-03
	Vitrified	0.00	0.00	0.00				Tc-99	1.10E-06
	Solidified, Organic Matrix	0.00	0.00	0.00				U-234	4.11E-05
	Soils	18.00	0.00	0.00				U-235	1.84E-06
	Packaging Material, Steel	131.00						U-238	3.99E-05
	Packaging Material, Plastic	37.00						Y-90	4.77E-03
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T137													
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	151.6	0.0	0.0	0.0	0.0	151.6	55 Gallon Drum	151.6	0.0	0.0	0.0	0.0	151.6
As-Generated	Stored	151.6	Projected	0.0	Total	151.6	Final Form	Stored	151.6	Projected	0.0	Total	151.6

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TWBIR ID: RL-T137

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.

Waste Stream Source Description This waste stream consists of contact-handled TRU waste from Kerr McGee.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

Acceptance Comments N/A

Final Form Comments Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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TWBIR ID: RL-T140

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W268	Handling	CH	Stream Name	Rocky Flats TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	RF	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5440

EPA Codes
As-Generated
N/A

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	552.00	0.00	0.00	
Aluminum-Base Metal/Alloys	87.00	0.00	0.00	
Other Metal/Alloys	0.00	0.00	0.00	
Other Inorganic Materials	43.00	0.00	0.00	
Cellulosics	105.00	0.00	0.00	
Rubber	45.00	0.00	0.00	
Plastics	107.00	0.00	0.00	
Solidified, Inorganic Matrix	15.00	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	18.00	0.00	0.00	
Packaging Material, Steel	131.00			
Packaging Material, Plastic	37.00			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors	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	7.19E+00
Ba-137m	4.79E-03
Cs-137	5.21E-03
Pu-238	2.39E+00
Pu-239	3.02E+01
Pu-240	7.44E+00
Pu-241	1.44E+02
Pu-242	6.40E-04
Sr-90	4.77E-03
Tc-99	1.04E-06
U-234	1.90E-01
U-235	3.54E-04
U-238	2.12E-02
Y-90	4.77E-03

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T140													
As-Generated Volumes							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	138.1	0.0	0.0	0.0	0.0	138.1	55 Gallon Drum	138.1	0.0	0.0	0.0	0.0	138.1
As-Generated	Stored 138.1	Projected 0.0			Total 138.1	Final Form	Stored 138.1	Projected 0.0			Total 138.1		

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TWBIR ID: RL-T140

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.

Waste Stream Source Description This waste stream consists of contact-handled TRU waste from Rocky Flats.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

Acceptance Comments The Type II Rocky Flats waste reported as Waste No. RL-T141 in Revision 1 of the TWBIR has been merged in Revision 2 with the Type I waste reported in RL-T140. RL-T141 has been deleted in Revision 2 of the TWBIR.

Final Form Comments Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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TWBIR ID: RL-T143

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W269	Handling	CH	Stream Name	GE San Jose and Vallecitos TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	GE	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5440

EPA Codes
As-Generated
N/A

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	697.61	0.00	0.00	
Aluminum-Base Metal/Alloys	164.09	0.00	0.00	
Other Metal/Alloys	0.00	0.00	0.00	
Other Inorganic Materials	39.61	0.00	0.00	
Cellulosics	16.90	0.00	0.00	
Rubber	2.91	0.00	0.00	
Plastics	29.06	0.00	0.00	
Solidified, Inorganic Matrix	5.02	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	1.06	0.00	0.00	
Packaging Material, Steel	152.65			
Packaging Material, Plastic	3.30			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors		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)
Ba-137m	2.53E-04
Cs-137	2.74E-04
Pu-238	4.69E-03
Pu-239	1.67E-01
Pu-240	3.74E-02
Pu-241	7.57E-01
Pu-242	2.25E-06
Sr-90	2.56E-04
U-234	9.55E-05
U-235	5.84E-06
U-238	6.69E-05
Y-90	2.56E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T143													
As-Generated Volumes							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	23.7	0.0	0.0	0.0	0.0	23.7	55 Gallon Drum	23.7	0.0	0.0	0.0	0.0	23.7
Standard Waste Box	380.0	0.0	0.0	0.0	0.0	380.0	Standard Waste Box	380.0	0.0	0.0	0.0	0.0	380.0
As-Generated	Stored	403.7	Projected	0.0	Total	403.7	Final Form	Stored	403.7	Projected	0.0	Total	403.7

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TWBIR ID: RL-T143

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description This waste consists of typically contact-handled TRU waste from the General Electric Plants at San Jose and Vallecitos.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.

Acceptance Comments The Type I and II GE Pleasanton waste reported in Waste Nos. RL-T138 and RL-T139 and RL-139, and the GE Vallecitos waste reported in RL-T144 in Revision 1 of the TWBIR have been merged in Revision 2 with the waste reported in RL-T143. RL-T138, RL-T139, and RL-T144 have been deleted in Revision 2.

Final Form Comments Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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TWBIR ID: RL-T145

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W270	Handling	CH	Stream Name	Ward TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	N/A	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5440

EPA Codes	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	Unassigned	Isotope	Typical Concentration (Ci/m3)
N/A	Iron-Base Metal/Alloys	678.47	0.00	0.00	Residues:	No		Ba-137m	1.65E-03
	Aluminum-Base Metal/Alloys	153.95	0.00	0.00	Asbestos:	No		Cs-137	1.80E-03
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	No		Pu-238	7.57E-03
	Other Inorganic Materials	40.06	0.00	0.00	Source:	R&D/R&D Laboratory Waste		Pu-239	2.70E-01
	Cellulosics	28.48	0.00	0.00				Pu-240	6.03E-02
	Rubber	8.44	0.00	0.00				Pu-241	1.22E+00
	Plastics	39.31	0.00	0.00				Pu-242	3.64E-06
	Solidified, Inorganic Matrix	6.33	0.00	0.00				Sr-90	1.68E-03
	Cement (Solidified)	0.00	0.00	0.00				Th-232	1.37E-07
	Vitrified	0.00	0.00	0.00				U-234	1.26E-04
	Solidified, Organic Matrix	0.00	0.00	0.00				U-235	7.46E-06
	Soils	3.28	0.00	0.00				U-238	1.75E-05
	Packaging Material, Steel	149.80						Y-90	1.68E-03
	Packaging Material, Plastic	7.73							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T145													
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	129.8	0.0	0.0	0.0	0.0	129.8	55 Gallon Drum	129.8	0.0	0.0	0.0	0.0	129.8
Standard Waste Box	581.4	0.0	0.0	0.0	0.0	581.4	Standard Waste Box	581.4	0.0	0.0	0.0	0.0	581.4
As-Generated	Stored	711.2	Projected	0.0	Total	711.2	Final Form	Stored	711.2	Projected	0.0	Total	711.2

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TWBIR ID: RL-T145

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description This waste stream consists of contact-handled TRU waste from the Westinghouse Advanced Reactor Division (WARD).

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.

Acceptance Comments The Ward waste reported in Waste Nos. RL-T144 in Revision 1 of the WTWBIR has been merged in Revision 2 with the waste reported in RL-T145. RL-T144 has been deleted in Revision 2.

Final Form Comments Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

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TWBIR ID: RL-T147

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W271	Handling	RH	Stream Name	325 and 325B Bldg Op TRU Caisson Waste			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	RL	Final Waste Form	Heterogeneous Debris	Waste Matrix Code	S5440

EPA Codes	Waste Material Parameters (kg/m3)			
As-Generated	Material Parameter	Average	Lower	Upper
N/A	Iron-Base Metal/Alloys	709.30	0.00	0.00
	Aluminum-Base Metal/Alloys	165.40	0.00	0.00
	Other Metal/Alloys	0.00	0.00	0.00
	Other Inorganic Materials	40.70	0.00	0.00
	Cellulosics	20.10	0.00	0.00
	Rubber	5.50	0.00	0.00
	Plastics	32.40	0.00	0.00
	Solidified, Inorganic Matrix	5.40	0.00	0.00
	Cement (Solidified)	0.00	0.00	0.00
	Vitrified	0.00	0.00	0.00
	Solidified, Organic Matrix	0.00	0.00	0.00
	Soils	1.70	0.00	0.00
	Packaging Material, Steel	434.00		
	Packaging Material, Plastic	0.00		
	Packaging Material, Lead	464.00		
	Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors	TRUCON Codes
Category: Defense TRU Waste	Unassigned
Residues: No	
Asbestos: No	
PCBs: No	
Source: Facility/Equipment Operation and Maintenance Waste	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	3.59E-01
Ba-137m	6.91E+01
Cs-137	7.51E+01
Pu-238	1.89E+00
Pu-239	1.24E+01
Pu-240	6.17E+00
Pu-241	2.91E+02
Pu-242	1.82E-04
Sr-90	7.00E+01
Th-232	1.06E-05
U-233	1.85E-02
U-234	4.41E-02
U-235	4.30E-03
U-238	3.23E-04

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T147													
As-Generated Volumes							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	27.6	0.0	0.0	0.0	0.0	27.6	RH Canister	27.6	0.0	0.0	0.0	0.0	27.6
As-Generated	Stored 27.6	Projected 0.0	Total 27.6				Final Form	Stored 27.6	Projected 0.0	Total 27.6			

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TWBIR ID: RL-T147

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides
(Continued)

Isotope	Typical Concentration (Ci/m3)
Y-90	7.00E+01

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description This waste stream consists of remote-handled TRU waste from the Radiochemistry Building and Shielded Laboratory Annex.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.2A, Radioactive Waste Management. Upper and lower weights of final waste form are unknown.

Acceptance Comments The remote-handled TRU waste from Building 324 reported under Waste No. RL-T147 in Revision 1 of the WTWBIR has been merged with waste reported under RL-T148. This waste is reported in RL-T148 in Revision 2.

Final Form Comments Upper and lower weights of final waste form are unknown.

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TWBIR ID: RL-T148

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W272	Handling	RH	Stream Name	324 and 327C TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	RL	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5440

EPA Codes
As-Generated
N/A

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	737.60	0.00	0.00	
Aluminum-Base Metal/Alloys	127.30	0.00	0.00	
Other Metal/Alloys	0.00	0.00	0.00	
Other Inorganic Materials	54.10	0.00	0.00	
Cellulosics	116.70	0.00	0.00	
Rubber	49.20	0.00	0.00	
Plastics	121.90	0.00	0.00	
Solidified, Inorganic Matrix	17.60	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	19.80	0.00	0.00	
Packaging Material, Steel	434.00			
Packaging Material, Plastic	0.00			
Packaging Material, Lead	464.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors		TRUCON Codes
Category:	Defense TRU Waste	Unassigned
Residues:	No	
Asbestos:	No	
PCBs:	No	
Source:	Facility/Equipment Operation and Maintenance Waste	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Ba-137m	1.52E+03
Co-60	3.64E+01
Cs-137	1.65E+03
Pu-238	2.38E+00
Pu-239	1.56E+01
Pu-240	7.78E+00
Pu-241	3.68E+02
Pu-242	2.29E-04
Sr-90	1.54E+03
Th-232	5.37E-05
U-233	1.12E-02
U-234	6.81E-02
U-235	6.66E-03
U-238	4.78E-04

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T148													
As-Generated Volumes							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	24.0	0.0	0.0	0.0	0.0	24.0	RH Canister	24.0	0.0	0.0	0.0	0.0	24.0
As-Generated	Stored 24.0	Projected 0.0	Total 24.0			Final Form	Stored 24.0	Projected 0.0	Total 24.0				

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TWBIR ID: RL-T148

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides
(Continued)

Isotope	Typical Concentration (Ci/m3)
Y-90	1.54E+03

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description This waste stream consists of typically remote-handled TRU waste from the Chemical Engineering Building and Post Irradiation Test Laboratory.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.2A, Radioactive Waste Management. Upper and lower weights of final waste form are unknown.

Acceptance Comments The remote-handled TRU waste from Building 324 reported under Waste No. RL-T147 in Revision 1 of the WTWBIR has been merged with waste reported under RL-T148. This waste is reported in RL-T148 in Revision 2.

Final Form Comments Upper and lower weights of final waste form are unknown.

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TWBIR ID: RL-T149

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W273	Handling	RH	Stream Name	325A and 325B R&D TRU Waste			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	RL	Final Waste Form	Heterogeneous Debris	Waste Matrix Code	S5440

EPA Codes	Waste Material Parameters (kg/m3)				Final Waste Form Descriptors		TRUCON Codes	Final Form Radionuclides	
As-Generated N/A	Material Parameter	Average	Lower	Upper	Category:	Defense TRU Waste	Unassigned	Isotope	Typical Concentration (Ci/m3)
	Iron-Base Metal/Alloys	707.60	0.00	0.00	Residues:	No		Ba-137m	2.54E+01
	Aluminum-Base Metal/Alloys	167.80	0.00	0.00	Asbestos:	No		Cs-137	2.72E+01
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	No		Pu-238	3.89E-03
	Other Inorganic Materials	39.90	0.00	0.00	Source:	R&D/R&D Laboratory Waste		Pu-239	2.55E-02
	Cellulosics	14.10	0.00	0.00				Pu-240	1.27E-02
	Rubber	2.80	0.00	0.00				Pu-241	6.01E-01
	Plastics	26.80	0.00	0.00				Pu-242	3.74E-07
	Solidified, Inorganic Matrix	4.70	0.00	0.00				Sr-90	2.64E+01
	Cement (Solidified)	0.00	0.00	0.00				Th-232	5.97E-04
	Vitrified	0.00	0.00	0.00				U-233	1.09E-01
	Solidified, Organic Matrix	0.00	0.00	0.00				U-234	6.48E-05
	Soils	0.50	0.00	0.00				U-235	6.65E-06
	Packaging Material, Steel	434.00						U-238	7.13E-08
	Packaging Material, Plastic	0.00						Y-90	2.64E+01
	Packaging Material, Lead	464.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-T149													
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	69.4	0.0	0.0	0.0	0.0	69.4	RH Canister	69.4	0.0	0.0	0.0	0.0	69.4
As-Generated	Stored 69.4	Projected 0.0	Total 69.4			Final Form	Stored 69.4	Projected 0.0	Total 69.4				

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TWBIR ID: RL-T149

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description This waste stream consists of remote-handled TRU waste from the Cesium Recovery Facility and Shielded Laboratory Annex of the Radiochemistry Building.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.2A, Radioactive Waste Management. Upper and lower weights of final waste form are unknown.

Acceptance Comments This waste stream has been expanded in Revision 2 of the WTWBIR to report remote-handled waste from both Buildings 325A and 325B.

Final Form Comments Upper and lower weights of final waste form are unknown.

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TWBIR ID: RL-W161

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W274	Handling	RH	Stream Name	202A Bldg Remote-Handled TRU Waste			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	N/A	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5440

EPA Codes	Waste Material Parameters (kg/m3)			
As-Generated	Material Parameter	Average	Lower	Upper
N/A	Iron-Base Metal/Alloys	725.80	0.00	0.00
	Aluminum-Base Metal/Alloys	143.30	0.00	0.00
	Other Metal/Alloys	0.00	0.00	0.00
	Other Inorganic Materials	48.50	0.00	0.00
	Cellulosics	76.30	0.00	0.00
	Rubber	30.90	0.00	0.00
	Plastics	84.50	0.00	0.00
	Solidified, Inorganic Matrix	12.50	0.00	0.00
	Cement (Solidified)	0.00	0.00	0.00
	Vitrified	0.00	0.00	0.00
	Solidified, Organic Matrix	0.00	0.00	0.00
	Soils	12.20	0.00	0.00
	Packaging Material, Steel	434.00		
	Packaging Material, Plastic	0.00		
	Packaging Material, Lead	464.00		
	Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	No	
Asbestos:	No	
PCBs:	No	
Source:	Facility/Equipment Operation and Maintenance Waste	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Ba-137m	1.29E-01
Cs-137	1.40E-01
Pu-238	2.06E-03
Pu-239	1.35E-02
Pu-240	6.73E-03
Pu-241	3.18E-01
Pu-242	1.98E-07
Sr-90	1.30E-01
Y-90	1.30E-01

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W161													
As-Generated Volumes						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	5.3	0.0	0.0	0.0	0.0	5.3	RH Canister	5.3	0.0	0.0	0.0	0.0	5.3
As-Generated	Stored 5.3	Projected 0.0	Total 5.3			Final Form	Stored 5.3	Projected 0.0	Total 5.3				

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TWBIR ID: RL-W161

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description This waste stream consists of remote-handled TRU waste from the Purex Canyon and Service Facility.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.2A, Radioactive Waste Management. Upper and lower weights of final waste form are unknown.

Acceptance Comments N/A

Final Form Comments Upper and lower weights of final waste form are unknown.

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TWBIR ID: RL-W162

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W275	Handling	RH	Stream Name	202AL and 222S Bldg Remote-Handled TRU Waste			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	N/A	Final Waste Form	Heterogeneous Debris	Waste Matrix Code	S5440

EPA Codes	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	744.80	0.00	0.00	Residues:	No		Ba-137m	2.65E-01
	Aluminum-Base Metal/Alloys	117.60	0.00	0.00	Asbestos:	No		Cs-137	2.88E-01
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	No		Pu-238	6.10E-06
	Other Inorganic Materials	57.50	0.00	0.00	Source:	Analytical Laboratory Waste		Pu-239	4.00E-05
	Cellulosics	141.30	0.00	0.00				Pu-240	1.99E-05
	Rubber	60.30	0.00	0.00				Pu-241	9.44E-04
	Plastics	144.70	0.00	0.00				Pu-242	5.87E-10
	Solidified, Inorganic Matrix	20.70	0.00	0.00				Sr-90	2.69E-01
	Cement (Solidified)	0.00	0.00	0.00				U-234	9.14E-08
	Vitrified	0.00	0.00	0.00				U-235	4.09E-09
	Solidified, Organic Matrix	0.00	0.00	0.00				U-238	8.87E-08
	Soils	24.40	0.00	0.00				Y-90	2.69E-01
	Packaging Material, Steel	434.00							
	Packaging Material, Plastic	0.00							
	Packaging Material, Lead	464.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W162													
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	18.7	0.0	0.0	0.0	0.0	18.7	RH Canister	18.7	0.0	0.0	0.0	0.0	18.7
As-Generated	Stored 18.7	Projected 0.0	Total 18.7			Final Form	Stored 18.7	Projected 0.0	Total 18.7				

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30% of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.

Waste Stream Source Description This waste stream consists of remote-handled TRU waste from process analytical laboratories.

Current Container Comments N/A

EPA Comments N/A

Management Comments Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.2A, Radioactive Waste Management. Upper and lower weights of final form are unknown.

Acceptance Comments N/A

Final Form Comments Upper and lower weights of final waste form are unknown.

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TWBIR ID: RL-W407

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W407	Handling	CH	Stream Name	Future CH-TRU RH and Oversized MLLW/TRU(M) Facilities (M-91)			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	RL	Final Waste Form	Uncategorized Metal	Waste Matrix Code	S5420

EPA Codes	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	8.28E-02
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	No		Pu-238	2.36E-02
	Other Metal/Alloys	143.57	143.57	143.57	PCBs:	No		Pu-239	9.01E-01
	Other Inorganic Materials	1.19	1.19	1.19	Source:	Waste Treatment Process		Pu-240	2.02E-01
	Cellulosics	9.52	9.52	9.52				Pu-241	2.70E+00
	Rubber	0.00	0.00	0.00				Pu-242	1.21E-05
	Plastics	17.14	17.14	17.14					
	Solidified, Inorganic Matrix	1.19	1.19	1.19					
	Cement (Solidified)	0.00	0.00	0.00					
	Vitrified	0.00	0.00	0.00					
	Solidified, Organic Matrix	0.00	0.00	0.00					
	Soils	0.00	0.00	0.00					
	Packaging Material, Steel	154.00							
	Packaging Material, Plastic	1.20							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W407													
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
Standard Waste Box	0.0	0.0	38.0	95.0	98.8	231.8	Standard Waste Box	0.0	0.0	0.0	0.0	0.0	231.8
As-Generated	Stored	0.0	Projected	231.8	Total	231.8	Final Form	Stored	0.0	Projected	231.8	Total	231.8

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description Waste from the future M-91 facility, which will be used to size reduce metal debris to fit in standard waste boxes or RH canisters

Current Container Comments N/A

EPA Comments Data are compiled from waste manifest data on each container of TRU waste.

Management Comments While not forecasted from 1995 to 1999, additional generation is forecasted from 2000 to 2024.

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RL-W408

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W408	Handling	CH	Stream Name	Future CH-TRU T Plant Canyon Cleanout			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	RL	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5900

EPA Codes	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	3.12E-05
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	No		Pu-238	1.28E-05
	Other Metal/Alloys	28.57	28.57	28.57	PCBs:	No		Pu-239	4.68E-04
	Other Inorganic Materials	9.47	9.47	75.76	Source:	Remediation/D&D Waste		Pu-240	1.05E-04
	Cellulosics	66.67	66.67	66.67				Pu-241	1.79E-03
	Rubber	123.40	99.29	208.14				Pu-242	6.32E-09
	Plastics	33.33	33.33	33.33					
	Solidified, Inorganic Matrix	0.96	0.43	1.43					
	Cement (Solidified)	0.00	0.00	0.00					
	Vitrified	0.00	0.00	0.00					
	Solidified, Organic Matrix	0.00	0.00	0.00					
	Soils	325.10	295.24	337.00					
	Packaging Material, Steel	154.00							
	Packaging Material, Plastic	1.20							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W408													
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	3.8	0.0	0.0	0.0	0.0	3.8	Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8
As-Generated	Stored 3.8	Projected 0.0	Total 3.8				Final Form	Stored 3.8	Projected 0.0	Total 3.8			

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TWBIR ID: RL-W408

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description The waste stream is from facility clean-out and D&D waste from the T-Plant Canyon and Decontamination facility.

Current Container Comments N/A

EPA Comments Data are compiled from waste manifest data on each container of TRU waste.

Management Comments While not forecasted from 1995 to 1999, additional generation is forecasted from 2000 to 2024.

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RL-W415

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W415	Handling	CH	Stream Name	Future CH-MTRU T Plant Transition			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	MTRU	Generator Site	RL	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5900

EPA Codes	
As-Generated	
Uncompiled	

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	0.00	0.00	0.00	
Aluminum-Base Metal/Alloys	0.00	0.00	0.00	
Other Metal/Alloys	28.57	28.57	28.57	
Other Inorganic Materials	9.47	9.47	75.76	
Cellulosics	66.67	66.67	66.67	
Rubber	123.40	99.29	208.14	
Plastics	33.33	33.33	33.33	
Solidified, Inorganic Matrix	0.96	0.43	1.43	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	325.10	295.24	337.00	
Packaging Material, Steel	131.00			
Packaging Material, Plastic	37.00			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

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

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	3.12E-05
Pu-238	1.28E-05
Pu-239	4.68E-04
Pu-240	1.05E-04
Pu-241	1.79E-03
Pu-242	6.32E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W415													
As-Generated Volumes						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	0.0	0.0	0.0	0.0	14.9	39.9	55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	39.9
As-Generated	Stored 0.0	Projected 39.9	Total 39.9				Final Form	Stored 0.0	Projected 39.9	Total 39.9			

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description The waste stream is from facility clean-out and D&D waste from the T-Plant Canyon and Decontamination facility.

Current Container Comments N/A

EPA Comments Data are compiled from waste manifest data on each container of TRU waste.

Management Comments The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RL-W418

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W418	Handling	CH	Stream Name	Future CH-MTRU Waste Feed Delivery System (8 tanks)			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	MTRU	Generator Site	RL	Final Waste Form	Uncategorized Metal	Waste Matrix Code	S5119

EPA Codes	
As-Generated	
Uncompiled	

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	0.00	0.00	0.00	
Aluminum-Base Metal/Alloys	0.00	0.00	0.00	
Other Metal/Alloys	596.00	0.00	0.00	
Other Inorganic Materials	0.00	0.00	0.00	
Cellulosics	0.00	0.00	0.00	
Rubber	0.00	0.00	0.00	
Plastics	0.00	0.00	0.00	
Solidified, Inorganic Matrix	0.00	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	0.00	0.00	0.00	
Packaging Material, Steel	131.00			
Packaging Material, Plastic	37.00			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	No	
Asbestos:	No	
PCBs:	No	
Source:	Facility/Equipment Operation and Maintenance Waste	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	8.08E-04
Pu-238	2.61E-04
Pu-239	9.80E-03
Pu-240	2.20E-03
Pu-241	3.24E-02
Pu-242	1.32E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W418													
As-Generated Volumes						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	0.0	0.0	8.2	0.0	0.0	8.2	55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	8.2
As-Generated	Stored 0.0	Projected 8.2	Total 8.2			Final Form	Stored 0.0	Projected 8.2	Total 8.2				

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description The waste stream is miscellaneous solid wastes from the operation of the planned HLW vitrification facility.

Current Container Comments N/A

EPA Comments Data are compiled from waste manifest data on each container of TRU waste.

Management Comments The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RL-W419

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W419	Handling	RH	Stream Name	Future RH-TRU K-Basin Transition			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	RL	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5900

EPA Codes	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	3.12E-05
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	No		Pu-238	1.28E-05
	Other Metal/Alloys	28.57	28.57	28.57	PCBs:	No		Pu-239	4.68E-04
	Other Inorganic Materials	9.47	9.47	75.76	Source:	Remediation/D&D Waste		Pu-240	1.05E-04
	Cellulosics	66.67	66.67	66.67				Pu-241	1.79E-03
	Rubber	123.40	99.29	208.14				Pu-242	6.32E-09
	Plastics	33.33	33.33	33.33					
	Solidified, Inorganic Matrix	0.96	0.43	1.43					
	Cement (Solidified)	0.00	0.00	0.00					
	Vitrified	0.00	0.00	0.00					
	Solidified, Organic Matrix	0.00	0.00	0.00					
	Soils	325.10	295.24	337.00					
	Packaging Material, Steel	434.00							
	Packaging Material, Plastic	0.00							
	Packaging Material, Lead	464.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W419													
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	3.6	0.0	0.0	0.0	3.6	RH Canister	0.0	0.0	0.0	0.0	0.0	3.6
As-Generated	Stored	0.0	Projected	3.6	Total	3.6	Final Form	Stored	0.0	Projected	3.6	Total	3.6

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description The waste stream is miscellaneous solid wastes from operations of the N-Reactor fuel storage basins.

Current Container Comments N/A

EPA Comments Data are compiled from waste manifest data on each container of TRU waste.

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RL-W420

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W420	Handling	RH	Stream Name	Future RH-TRU Waste Treatment Plant - Operations			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	RL	Final Waste Form	Uncategorized Metal	Waste Matrix Code	S5119

EPA Codes	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	8.08E-04
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	No		Pu-238	2.61E-04
	Other Metal/Alloys	596.00	0.00	0.00	PCBs:	No		Pu-239	9.80E-03
	Other Inorganic Materials	0.00	0.00	0.00	Source:	Facility/Equipment Operation and Maintenance Waste		Pu-240	2.20E-03
	Cellulosics	0.00	0.00	0.00				Pu-241	3.24E-02
	Rubber	0.00	0.00	0.00				Pu-242	1.32E-07
	Plastics	0.00	0.00	0.00					
	Solidified, Inorganic Matrix	0.00	0.00	0.00					
	Cement (Solidified)	0.00	0.00	0.00					
	Vitrified	0.00	0.00	0.00					
	Solidified, Organic Matrix	0.00	0.00	0.00					
	Soils	0.00	0.00	0.00					
	Packaging Material, Steel	434.00							
	Packaging Material, Plastic	0.00							
	Packaging Material, Lead	464.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W420													
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	0.0	24.9	1.8	0.0	26.7	RH Canister	0.0	0.0	0.0	0.0	0.0	26.7
As-Generated	Stored 0.0	Projected 26.7	Total 26.7				Final Form	Stored 0.0	Projected 26.7	Total 26.7			

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TWBIR ID: RL-W420

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description The waste stream is miscellaneous solid wastes from the operation of the planned HLW vitrification facility.

Current Container Comments N/A

EPA Comments Data are compiled from waste manifest data on each container of TRU waste.

Management Comments While not forecasted from 1995 to 1999, additional generation is forecasted from 2000 to 2024.

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RL-W421

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W421	Handling	RH	Stream Name	Future RH-MTRU Waste Feed Delivery System (8 tanks)			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	MTRU	Generator Site	RL	Final Waste Form	Heterogeneous Debris	Waste Matrix Code	S5900

EPA Codes
As-Generated
Uncompiled

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	0.00	0.00	0.00	
Aluminum-Base Metal/Alloys	0.00	0.00	0.00	
Other Metal/Alloys	28.57	28.57	28.57	
Other Inorganic Materials	9.47	9.47	75.76	
Cellulosics	66.67	66.67	66.67	
Rubber	123.40	99.29	208.14	
Plastics	33.33	33.33	33.33	
Solidified, Inorganic Matrix	0.96	0.43	1.43	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	325.10	295.24	337.00	
Packaging Material, Steel	434.00			
Packaging Material, Plastic	0.00			
Packaging Material, Lead	464.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors	TRUCON Codes
Category: Defense TRU Waste	N/A
Residues: No	
Asbestos: No	
PCBs: No	
Source: Facility/Equipment Operation and Maintenance Waste	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	3.12E-05
Pu-238	1.28E-05
Pu-239	4.68E-04
Pu-240	1.05E-04
Pu-241	1.79E-03
Pu-242	6.32E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W421													
As-Generated Volumes						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	0.0	315.9	0.0	0.0	315.9	RH Canister	0.0	0.0	0.0	0.0	0.0	315.9
As-Generated	Stored 0.0	Projected 315.9	Total 315.9			Final Form	Stored 0.0	Projected 315.9	Total 315.9				

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TWBIR ID: RL-W421

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.

Waste Stream Source Description The waste stream is miscellaneous solid wastes from the operation of the planned HLW vitrification facility.

Current Container Comments N/A

EPA Comments Data are compiled from waste manifest data on each container of TRU waste.

Management Comments The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RL-W424

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W424	Handling	RH	Stream Name	327 Non-surplus Facility Mgmt Prg D&D TRU/RH			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	N/A	Final Waste Form	Heterogeneous Debris	Waste Matrix Code	S5100

EPA Codes
As-Generated
N/A

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	164.00	0.00	0.00	
Aluminum-Base Metal/Alloys	0.00	0.00	0.00	
Other Metal/Alloys	60.00	0.00	0.00	
Other Inorganic Materials	35.00	0.00	0.00	
Cellulosics	5.00	0.00	0.00	
Rubber	0.00	0.00	0.00	
Plastics	6.00	0.00	0.00	
Solidified, Inorganic Matrix	0.00	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	0.00	0.00	0.00	
Packaging Material, Steel	434.00			
Packaging Material, Plastic	0.00			
Packaging Material, Lead	464.00			
Packaging Material, Steel Plug	0.00			

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

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	3.80E-01
Ba-137m	5.00E-01
C-14	7.50E-04
Cs-137	5.30E-01
H-3	1.00E-03
I-129	3.00E-07
Pu-238	9.10E-02
Pu-239	2.30E-01
Pu-240	1.30E-01
Pu-241	3.60E+00
Pu-242	4.50E-05
Se-79	4.30E-06
Sm-151	8.40E-03
Sr-90	4.20E-01

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W424													
As-Generated Volumes							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	0.0	1014.6	0.0	0.0	1014.6	RH Canister	0.0	0.0	0.0	0.0	0.0	1014.6
As-Generated	Stored 0.0	Projected 1014.6	Total 1014.6				Final Form	Stored 0.0	Projected 1014.6	Total 1014.6			

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TWBIR ID: RL-W424

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides
(Continued)

Isotope	Typical Concentration (Ci/m3)
U-234	9.90E-04
U-235	3.90E-05
U-236	1.30E-04
U-238	7.00E-04
Y-90	4.20E-01

Waste Stream Description The waste stream typically contains equipment including but not limited to saws, manipulators, hoists, hoods, lathes, and cabinetry.

Waste Stream Source Description The waste stream is large tanks/dissolvers/pumps/concentrator. Size reduction is required to package the waste into RH canisters.

Current Container Comments Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.

EPA Comments N/A

Management Comments N/A

Acceptance Comments The research and development roles expected to be assumed by 327 before closure have not been defined.

Final Form Comments N/A

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TWBIR ID: RL-W425

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W425	Handling	RH	Stream Name	100N Non-surplus Facility Mgmt Prg D&D TRU/RH			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	N/A	Final Waste Form	Heterogeneous Debris	Waste Matrix Code	S5400

EPA Codes	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	60.00	0.00	0.00	Residues:	No		Am-241	1.77E-03
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	No		Pu-238	1.72E-03
	Other Metal/Alloys	30.00	0.00	0.00	PCBs:	No		Pu-239	2.10E-05
	Other Inorganic Materials	75.00	0.00	0.00	Source:	Remediation/D&D Waste		Pu-240	3.78E-05
	Cellulosics	0.00	0.00	0.00				Pu-241	9.27E-02
	Rubber	0.00	0.00	0.00				Pu-242	1.92E-11
	Plastics	7.00	0.00	0.00					
	Solidified, Inorganic Matrix	83.00	0.00	0.00					
	Cement (Solidified)	0.00	0.00	0.00					
	Vitrified	0.00	0.00	0.00					
	Solidified, Organic Matrix	31.00	0.00	0.00					
	Soils	24.00	0.00	0.00					
	Packaging Material, Steel	434.00							
	Packaging Material, Plastic	0.00							
	Packaging Material, Lead	464.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W425													
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	0.0	473.5	710.2	0.0	1183.7	RH Canister	0.0	0.0	0.0	0.0	0.0	1183.7
As-Generated	Stored	0.0	Projected	1183.7	Total	1183.7	Final Form	Stored	0.0	Projected	1183.7	Total	1183.7

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TWBIR ID: RL-W425

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description The waste stream is surplus facility clean-out and D&D waste which range from contaminated clothing, to process equipment.

Waste Stream Source Description Facility clean-out and D&D from the 100-N Reactor Facility.

Current Container Comments Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RL-W426

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W426	Handling	RH	Stream Name	202A Non-surplus Facility Mgmt Prg D&D TRU/RH			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	N/A	Final Waste Form	Uncategorized Metal	Waste Matrix Code	S5110

EPA Codes
As-Generated
N/A

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	241.00	0.00	0.00	
Aluminum-Base Metal/Alloys	0.00	0.00	0.00	
Other Metal/Alloys	0.00	0.00	0.00	
Other Inorganic Materials	0.00	0.00	0.00	
Cellulosics	0.00	0.00	0.00	
Rubber	0.00	0.00	0.00	
Plastics	0.00	0.00	0.00	
Solidified, Inorganic Matrix	0.00	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	0.00	0.00	0.00	
Packaging Material, Steel	434.00			
Packaging Material, Plastic	0.00			
Packaging Material, Lead	464.00			
Packaging Material, Steel Plug	0.00			

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

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	1.90E-03
Ba-137m	9.30E-02
C-14	9.90E-04
Cs-137	9.80E-02
H-3	1.90E-04
I-129	4.10E-09
Np-237	1.70E-08
Pu-238	4.50E-04
Pu-239	1.10E-03
Pu-240	6.20E-04
Pu-241	1.80E-02
Pu-242	2.20E-07
Rh-106	2.60E-03
Ru-106	2.60E-03

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W426													
As-Generated Volumes							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	0.0	46.3	69.4	0.0	115.7	RH Canister	0.0	0.0	0.0	0.0	0.0	115.7
As-Generated	Stored 0.0	Projected 115.7	Total 115.7				Final Form	Stored 0.0	Projected 115.7	Total 115.7			

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TWBIR ID: RL-W426

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides
(Continued)

Isotope	Typical Concentration (Ci/m3)
Se-79	8.00E-07
Sm-151	1.60E-03
Sr-90	7.80E-02
U-234	1.70E-06
U-235	6.70E-08
U-236	2.20E-07
U-238	1.20E-06
Y-90	7.80E-02

Waste Stream Description The waste stream is large tanks/dissolvers/pumps/concentrator. Size reduction is required to package the waste into RH canisters.

Waste Stream Source Description Cleanout of contaminated equipment/removable piping etc. from PUREX facility.

Current Container Comments Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RL-W427

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W427	Handling	RH	Stream Name	202-A Tunnel Non-surplus Facility Mgmt Prg D&D TRU/RH			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	N/A	Final Waste Form	Uncategorized Metal	Waste Matrix Code	S5110

EPA Codes
As-Generated
N/A

Waste Material Parameters (kg/m3)			
Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	231.00	0.00	0.00
Aluminum-Base Metal/Alloys	4.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	5.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	434.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	464.00		
Packaging Material, Steel Plug	0.00		

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

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	3.80E-01
Ba-137m	5.00E-01
C-14	7.50E-04
Cs-137	5.30E-01
H-3	1.00E-03
I-129	3.00E-07
Pu-238	9.10E-02
Pu-239	2.30E-01
Pu-240	1.30E-01
Pu-241	3.60E+00
Pu-242	4.50E-05
Se-79	4.30E-06
Sm-151	8.40E-03
Sr-90	4.20E-01

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W427													
As-Generated Volumes						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	0.0	0.0	696.9	0.0	696.9	RH Canister	0.0	0.0	0.0	0.0	0.0	696.9
As-Generated	Stored 0.0	Projected 696.9	Total 696.9			Final Form	Stored 0.0	Projected 696.9	Total 696.9				

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TWBIR ID: RL-W427

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides
(Continued)

Isotope	Typical Concentration (Ci/m3)
U-234	9.90E-04
U-235	3.90E-05
U-236	1.30E-04
U-238	7.00E-04
Y-90	4.20E-01

Waste Stream Description Fuel reprocessing equipment (i.e., columns, concentrators, dissolvers, tanks, scrap). One container is filled with fuel ends and fuel handling equipment (22.7m3).

Waste Stream Source Description Held waste in 2 below grade tunnels that contain equipment too large, bulky and/or highly radioactively contaminated to be stored/disposed of by conventional methods.

Current Container Comments Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RL-W428

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W428	Handling	RH	Stream Name	Future RH-TRU RH and Oversized MLLW/TRU(M) Facilities (M-91)			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	N/A	Final Waste Form	Heterogeneous Debris	Waste Matrix Code	S5400

EPA Codes	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	60.00	0.00	0.00	Residues:	No		Am-241	1.77E-03
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	No		Pu-238	1.72E-03
	Other Metal/Alloys	30.00	0.00	0.00	PCBs:	No		Pu-239	2.10E-05
	Other Inorganic Materials	75.00	0.00	0.00	Source:	Waste Treatment Process		Pu-240	3.78E-05
	Cellulosics	0.00	0.00	0.00				Pu-241	9.27E-02
	Rubber	0.00	0.00	0.00				Pu-242	1.92E-11
	Plastics	7.00	0.00	0.00					
	Solidified, Inorganic Matrix	83.00	0.00	0.00					
	Cement (Solidified)	0.00	0.00	0.00					
	Vitrified	0.00	0.00	0.00					
	Solidified, Organic Matrix	31.00	0.00	0.00					
	Soils	24.00	0.00	0.00					
	Packaging Material, Steel	434.00							
	Packaging Material, Plastic	0.00							
	Packaging Material, Lead	464.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W428													
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	0.0	3.6	8.9	8.9	21.4	RH Canister	0.0	0.0	0.0	0.0	0.0	21.4
As-Generated	Stored	0.0	Projected	21.4	Total	21.4	Final Form	Stored	0.0	Projected	21.4	Total	21.4

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TWBIR ID: RL-W428

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description The waste stream ranges from contaminated clothing to process equipment.

Waste Stream Source Description Waste from the future M-91 facility, which will be used to size reduce metal debris to fit in standard waste boxes or RH canisters

Current Container Comments N/A

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RL-W429

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W429	Handling	RH	Stream Name	2345Z Non-surplus Facility Mgmt Prg D&D TRU/RH			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	N/A	Final Waste Form	Uncategorized Metal	Waste Matrix Code	S5110

EPA Codes
As-Generated
N/A

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	190.00	0.00	0.00	
Aluminum-Base Metal/Alloys	0.00	0.00	0.00	
Other Metal/Alloys	0.00	0.00	0.00	
Other Inorganic Materials	52.00	0.00	0.00	
Cellulosics	0.00	0.00	0.00	
Rubber	0.00	0.00	0.00	
Plastics	0.00	0.00	0.00	
Solidified, Inorganic Matrix	0.00	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	0.00	0.00	0.00	
Packaging Material, Steel	434.00			
Packaging Material, Plastic	0.00			
Packaging Material, Lead	464.00			
Packaging Material, Steel Plug	0.00			

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

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	3.80E-01
Ba-137m	5.00E-01
C-14	7.50E-04
Cs-137	5.30E-01
H-3	1.00E-03
I-129	3.00E-07
Pu-238	9.10E-02
Pu-239	2.30E-01
Pu-240	1.30E-01
Pu-241	3.60E+00
Pu-242	4.50E-05
Se-79	4.30E-06
Sm-151	8.40E-03
Sr-90	4.20E-01

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W429													
As-Generated Volumes							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	0.0	2162.7	0.0	0.0	2162.7	RH Canister	0.0	0.0	0.0	0.0	0.0	2162.7
As-Generated	Stored	Projected	Total				Final Form	Stored	Projected	Total			
	0.0	2162.7	2162.7					0.0	2162.7	2162.7			

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TWBIR ID: RL-W429

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides
(Continued)

Isotope	Typical Concentration (Ci/m3)
U-234	9.90E-04
U-235	3.90E-05
U-236	1.30E-04
U-238	7.00E-04
Y-90	4.20E-01

Waste Stream Description This waste stream is major processing equipment, piping, ductwork, and gloveboxes resulting from the cleanout and D&D of PFP.

Waste Stream Source Description Cleanout and D&D of the Plutonium Finishing Plant and Plutonium Processing Facility.

Current Container Comments Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RL-W430

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W430	Handling	RH	Stream Name	Surplus Facility Mgmt Prg D&D MTRU/RH			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	MTRU	Generator Site	N/A	Final Waste Form	Heterogeneous Debris	Waste Matrix Code	S5400

EPA Codes
As-Generated
D001C, D002B, D009X

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	60.00	0.00	0.00	
Aluminum-Base Metal/Alloys	0.00	0.00	0.00	
Other Metal/Alloys	30.00	0.00	0.00	
Other Inorganic Materials	75.00	0.00	0.00	
Cellulosics	0.00	0.00	0.00	
Rubber	0.00	0.00	0.00	
Plastics	7.00	0.00	0.00	
Solidified, Inorganic Matrix	83.00	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	31.00	0.00	0.00	
Soils	24.00	0.00	0.00	
Packaging Material, Steel	434.00			
Packaging Material, Plastic	0.00			
Packaging Material, Lead	464.00			
Packaging Material, Steel Plug	0.00			

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

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	1.77E-03
Pu-238	1.72E-03
Pu-239	2.10E-05
Pu-240	3.78E-05
Pu-241	9.27E-02
Pu-242	1.92E-11

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W430													
As-Generated Volumes						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	339.1	283.0	0.0	0.0	622.1	RH Canister	0.0	0.0	0.0	0.0	0.0	622.1
As-Generated	Stored 0.0	Projected 622.1	Total 622.1				Final Form	Stored 0.0	Projected 622.1	Total 622.1			

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TWBIR ID: RL-W430

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description The waste stream is surplus facilities cleanout and D&D wastes, ranging from contaminated clothing to process equipment and sludges.

Waste Stream Source Description Cleanout and D&D of all 100 Area Inactive Facilities (including C, D, DR, KE, KW, H, F, and N reactors, 104F and H Storage Basins, 100N Deactivation, N Basin Cleanout, Emergency Dump Basin, and the Spacer Silo) and the following 200 Area Inactive Facilities: 202S (REDOX), 233S (Plutonium Concentration Facility), and 221S (U Plant).

Current Container Comments Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RL-W431

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W431	Handling	RH	Stream Name	327 Non-surplus Facility Mgmt Prg D&D MTRU/RH			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	MTRU	Generator Site	N/A	Final Waste Form	Heterogeneous Debris	Waste Matrix Code	S5420

EPA Codes	
As-Generated	
D008A	

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	68.00	0.00	0.00	
Aluminum-Base Metal/Alloys	0.00	0.00	0.00	
Other Metal/Alloys	60.00	0.00	0.00	
Other Inorganic Materials	35.00	0.00	0.00	
Cellulosics	5.00	0.00	0.00	
Rubber	0.00	0.00	0.00	
Plastics	6.00	0.00	0.00	
Solidified, Inorganic Matrix	0.00	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	0.00	0.00	0.00	
Packaging Material, Steel	434.00			
Packaging Material, Plastic	0.00			
Packaging Material, Lead	464.00			
Packaging Material, Steel Plug	0.00			

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

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	4.06E+00
Pu-238	9.74E-01
Pu-239	1.04E-02
Pu-240	8.41E-03
Pu-241	2.60E+02
Pu-242	3.65E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W431													
As-Generated Volumes						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	0.0	8.9	0.0	0.0	8.9	RH Canister	0.0	0.0	0.0	0.0	0.0	8.9
As-Generated	Stored 0.0	Projected 8.9	Total 8.9			Final Form	Stored 0.0	Projected 8.9	Total 8.9				

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TWBIR ID: RL-W431

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description The waste stream typically contains equipment including but not limited to saws, manipulators, hoists, hoods, lathes, and cabinetry.

Waste Stream Source Description The waste stream is large tanks/dissolvers/pumps/concentrator. Size reduction is required to package the waste into RH canisters.

Current Container Comments Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.

EPA Comments N/A

Management Comments N/A

Acceptance Comments The research and development roles expected to be assumed by 327 before closure have not been defined.

Final Form Comments N/A

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TWBIR ID: RL-W432

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W432	Handling	RH	Stream Name	202A Non-surplus Facility Mgmt Prg D&D MTRU/RH			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	MTRU	Generator Site	N/A	Final Waste Form	Uncategorized Metal	Waste Matrix Code	S5110

EPA Codes
As-Generated
Uncompiled

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	241.00	0.00	0.00	
Aluminum-Base Metal/Alloys	0.00	0.00	0.00	
Other Metal/Alloys	0.00	0.00	0.00	
Other Inorganic Materials	0.00	0.00	0.00	
Cellulosics	0.00	0.00	0.00	
Rubber	0.00	0.00	0.00	
Plastics	0.00	0.00	0.00	
Solidified, Inorganic Matrix	0.00	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	0.00	0.00	0.00	
Packaging Material, Steel	434.00			
Packaging Material, Plastic	0.00			
Packaging Material, Lead	464.00			
Packaging Material, Steel Plug	0.00			

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

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	1.90E-03
Ba-137m	9.30E-02
C-14	9.90E-04
Cs-137	9.80E-02
H-3	1.90E-04
I-129	4.10E-09
Np-237	1.70E-08
Pu-238	4.50E-04
Pu-239	1.10E-03
Pu-240	6.20E-04
Pu-241	1.80E-02
Pu-242	2.20E-07
Rh-106	2.60E-03
Ru-106	2.60E-03

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W432													
As-Generated Volumes						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	0.0	14.2	21.4	0.0	35.6	RH Canister	0.0	0.0	0.0	0.0	0.0	35.6
As-Generated	Stored 0.0	Projected 35.6	Total 35.6				Final Form	Stored 0.0	Projected 35.6	Total 35.6			

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TWBIR ID: RL-W432

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides
(Continued)

Isotope	Typical Concentration (Ci/m3)
Se-79	8.00E-07
Sm-151	1.60E-03
Sr-90	7.80E-02
U-234	1.70E-06
U-235	6.70E-08
U-236	2.20E-07
U-238	1.20E-06
Y-90	7.80E-02

Waste Stream Description The waste stream is large tanks/dissolvers/pumps/concentrator. Size reduction is required to package the waste into RH canisters.

Waste Stream Source Description Cleanout of contaminated equipment/removable piping etc. from PUREX facility.

Current Container Comments Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RL-W433

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W433	Handling	RH	Stream Name	Future RH-MTRU Waste Treatment Plant - Operations			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	MTRU	Generator Site	N/A	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5400

EPA Codes	
As-Generated	
Uncompiled	

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	60.00	0.00	0.00	
Aluminum-Base Metal/Alloys	0.00	0.00	0.00	
Other Metal/Alloys	30.00	0.00	0.00	
Other Inorganic Materials	75.00	0.00	0.00	
Cellulosics	0.00	0.00	0.00	
Rubber	0.00	0.00	0.00	
Plastics	7.00	0.00	0.00	
Solidified, Inorganic Matrix	83.00	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	31.00	0.00	0.00	
Soils	24.00	0.00	0.00	
Packaging Material, Steel	434.00			
Packaging Material, Plastic	0.00			
Packaging Material, Lead	464.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	No	
Asbestos:	No	
PCBs:	No	
Source:	Facility/Equipment Operation and Maintenance Waste	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	1.77E-03
Pu-238	1.72E-03
Pu-239	2.10E-05
Pu-240	3.78E-05
Pu-241	9.27E-02
Pu-242	1.92E-11

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W433													
As-Generated Volumes						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	0.0	40.9	2.7	0.0	43.6	RH Canister	0.0	0.0	0.0	0.0	0.0	43.6
As-Generated	Stored 0.0	Projected 43.6	Total 43.6				Final Form	Stored 0.0	Projected 43.6	Total 43.6			

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description The waste stream ranges from contaminated clothing to process equipment, contaminated with RCRA regulated constituents.

Waste Stream Source Description The waste stream is miscellaneous solid wastes from the operation of the planned HLW vitrification facility.

Current Container Comments N/A

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RL-W434

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W434	Handling	RH	Stream Name	2345Z Non-surplus Facility Mgmt Prg D&D MTRU/RH			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	MTRU	Generator Site	N/A	Final Waste Form	Uncategorized Metal	Waste Matrix Code	S5110

EPA Codes	
As-Generated	
D008A, D009A	

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	190.00	0.00	0.00	
Aluminum-Base Metal/Alloys	0.00	0.00	0.00	
Other Metal/Alloys	0.00	0.00	0.00	
Other Inorganic Materials	52.00	0.00	0.00	
Cellulosics	0.00	0.00	0.00	
Rubber	0.00	0.00	0.00	
Plastics	0.00	0.00	0.00	
Solidified, Inorganic Matrix	0.00	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	0.00	0.00	0.00	
Packaging Material, Steel	434.00			
Packaging Material, Plastic	0.00			
Packaging Material, Lead	464.00			
Packaging Material, Steel Plug	0.00			

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

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	3.80E-01
Ba-137m	5.00E-01
C-14	7.50E-04
Cs-137	5.30E-01
H-3	1.00E-03
I-129	3.00E-07
Pu-238	9.10E-02
Pu-239	2.30E-01
Pu-240	1.30E-01
Pu-241	3.60E+00
Pu-242	4.50E-05
Se-79	4.30E-06
Sm-151	8.40E-03
Sr-90	4.20E-01

(Radionuclides continued next page)

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W434													
As-Generated Volumes							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	0.0	2509.8	0.0	0.0	2509.8	RH Canister	0.0	0.0	0.0	0.0	0.0	2509.8
As-Generated	Stored 0.0	Projected 2509.8	Total 2509.8				Final Form	Stored 0.0	Projected 2509.8	Total 2509.8			

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides
(Continued)

Isotope	Typical Concentration (Ci/m3)
U-234	9.90E-04
U-235	3.90E-05
U-236	1.30E-04
U-238	7.00E-04
Y-90	4.20E-01

Waste Stream Description This waste stream is major processing equipment, piping, ductwork, and gloveboxes resulting from the cleanout and D&D of PFP.

Waste Stream Source Description Cleanout and D&D of the Plutonium Finishinf Plant and Plutonium Processing Facility.

Current Container Comments Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.

EPA Comments Organics are expected to be very minimal due to attempts to minimize dangerous waste in packages by rinsing equipent thoroughly.

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

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TWBIR ID: RL-W436

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W436	Handling	RH	Stream Name	Future RH-MTRU SST Long Length Equipment			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	MTRU	Generator Site	N/A	Final Waste Form	Uncategorized Metal	Waste Matrix Code	S5119

EPA Codes	Waste Material Parameters (kg/m3)			
As-Generated	Material Parameter	Average	Lower	Upper
D002B, D007, F001, F002, F003, F005	Iron-Base Metal/Alloys	0.00	0.00	0.00
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00
	Other Metal/Alloys	596.00	0.00	0.00
	Other Inorganic Materials	0.00	0.00	0.00
	Cellulosics	0.00	0.00	0.00
	Rubber	0.00	0.00	0.00
	Plastics	0.00	0.00	0.00
	Solidified, Inorganic Matrix	0.00	0.00	0.00
	Cement (Solidified)	0.00	0.00	0.00
	Vitrified	0.00	0.00	0.00
	Solidified, Organic Matrix	0.00	0.00	0.00
	Soils	0.00	0.00	0.00
	Packaging Material, Steel	434.00		
	Packaging Material, Plastic	0.00		
	Packaging Material, Lead	464.00		
	Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors	TRUCON Codes
Category: Defense TRU Waste	N/A
Residues: No	
Asbestos: No	
PCBs: No	
Source: Facility/Equipment Operation and Maintenance Waste	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	1.47E-01
Pu-238	9.47E-02
Pu-239	5.92E-03
Pu-240	5.05E-03
Pu-242	3.75E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W436													
As-Generated Volumes						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	0.0	0.0	380.0	108.6	488.6	RH Canister	0.0	0.0	0.0	0.0	0.0	488.6
As-Generated	Stored 0.0	Projected 488.6	Total 488.6				Final Form	Stored 0.0	Projected 488.6	Total 488.6			

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Equipment removed from the high level waste tanks (instrument trees, pumps, circulators, agitators, heaters, sluicers, steam coils, air lances, cameras)
Waste Stream Source Description	Future long-length equipment removed from Hanford's tanks.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

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TWBIR ID: RL-W437

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W437	Handling	CH	Stream Name	Surplus Facility Mgmt Prg D&D TRU/CH			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	N/A	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5400

EPA Codes	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	60.00	0.00	0.00	Residues:	No		Am-241	8.28E-02
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	No		Pu-238	2.36E-02
	Other Metal/Alloys	30.00	0.00	0.00	PCBs:	No		Pu-239	9.01E-01
	Other Inorganic Materials	75.00	0.00	0.00	Source:	Remediation/D&D Waste		Pu-240	2.02E-01
	Cellulosics	0.00	0.00	0.00				Pu-241	2.70E+00
	Rubber	0.00	0.00	0.00				Pu-242	1.21E-05
	Plastics	7.00	0.00	0.00					
	Solidified, Inorganic Matrix	83.00	0.00	0.00					
	Cement (Solidified)	0.00	0.00	0.00					
	Vitrified	0.00	0.00	0.00					
	Solidified, Organic Matrix	31.00	0.00	0.00					
	Soils	24.00	0.00	0.00					
	Packaging Material, Steel	131.00							
	Packaging Material, Plastic	37.00							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W437													
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	0.0	571.6	28.1	0.0	0.0	759.4	55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	759.4
As-Generated	Stored	0.0	Projected	759.4	Total	759.4	Final Form	Stored	0.0	Projected	759.4	Total	759.4

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste stream is surplus facilities cleanout and D&D wastes, ranging from contaminated clothing to process equipment and sludges.
Waste Stream Source Description	Cleanout and D&D of all 100 Area Inactive Facilities (including C, D, DR, KE, KW, H, F, and N reactors, 104F and H Storage Basins, 100N Deactivation, N Basin Cleanout, Emergency Dump Basin, and the Spacer Silo) and the following 200 Area Inactive Facilities: 202S (REDOX), 233S (Plutonium Concentration Facility), and 221S (U Plant).
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

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TWBIR ID: RL-W438

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W438	Handling	CH	Stream Name	Future CH-TRU 200 Area Accelerated Deactivation			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	N/A	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5900

EPA Codes	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	3.12E-05
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	No		Pu-238	1.28E-05
	Other Metal/Alloys	28.57	28.57	28.57	PCBs:	No		Pu-239	4.68E-04
	Other Inorganic Materials	9.47	9.47	75.76	Source:	Remediation/D&D Waste		Pu-240	1.05E-04
	Cellulosics	66.67	66.67	66.67				Pu-241	1.79E-03
	Rubber	123.40	99.29	208.14				Pu-242	6.32E-09
	Plastics	33.33	33.33	33.33					
	Solidified, Inorganic Matrix	0.96	0.43	1.43					
	Cement (Solidified)	0.00	0.00	0.00					
	Vitrified	0.00	0.00	0.00					
	Solidified, Organic Matrix	0.00	0.00	0.00					
	Soils	325.10	295.24	337.00					
	Packaging Material, Steel	131.00							
	Packaging Material, Plastic	37.00							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W438													
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	0.0	1.7	0.8	0.0	0.0	2.5	55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	2.5
As-Generated	Stored 0.0	Projected 2.5	Total 2.5				Final Form	Stored 0.0	Projected 2.5	Total 2.5			

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Description is presently not available; however typical deactivation waste includes cleanout and removal of equipment, mixers, tanks, vessels and pumps.
Waste Stream Source Description	This represents wastes from deactivation in the 200 Areas
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

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TWBIR ID: RL-W439

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W439	Handling	CH	Stream Name	Environmental Restoration Program TRU/CH Soils			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	N/A	Final Waste Form	Soils	Waste Matrix Code	S4200

EPA Codes	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	5.05E-01
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	No		Ba-137m	2.68E-03
	Other Metal/Alloys	0.00	0.00	0.00	PCBs:	No		Cs-137	2.91E-03
	Other Inorganic Materials	0.00	0.00	0.00	Source:	Remediation/D&D Waste		Pu-238	2.99E-01
	Cellulosics	0.00	0.00	0.00				Pu-239	3.84E+00
	Rubber	0.00	0.00	0.00				Pu-240	8.53E-01
	Plastics	0.00	0.00	0.00				Pu-241	2.12E+01
	Solidified, Inorganic Matrix	0.00	0.00	0.00				Pu-242	4.93E-05
	Cement (Solidified)	0.00	0.00	0.00				Sr-90	2.67E-03
	Vitrified	0.00	0.00	0.00				Tc-99	5.73E-07
	Solidified, Organic Matrix	0.00	0.00	0.00				Y-90	2.67E-03
	Soils	324.00	162.00	324.00					
	Packaging Material, Steel	131.00							
	Packaging Material, Plastic	37.00							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W439													
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	0.0	3121.0	1529.8	0.0	0.0	5935.7	55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	5935.7
As-Generated	Stored	0.0	Projected	5935.7	Total	5935.7	Final Form	Stored	0.0	Projected	5935.7	Total	5935.7

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description This waste stream consists of soil contaminated with liquid solutions, previously buried solid waste, and associated contaminated soil, and sludges from previously used tanks or tank-like units.

Waste Stream Source Description The waste is from retrieval of contaminated soils. The waste may also include solid waste from past practice burial grounds and solidified sludge from miscellaneous past practice tanks.

Current Container Comments N/A

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W443	Handling	CH	Stream Name	Surplus Facility Mgmt Prg D&D MTRU/CH			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	MTRU	Generator Site	N/A	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5420

EPA Codes
As-Generated
D001C, D002B, D009X

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	68.00	0.00	0.00	
Aluminum-Base Metal/Alloys	0.00	0.00	0.00	
Other Metal/Alloys	60.00	0.00	0.00	
Other Inorganic Materials	35.00	0.00	0.00	
Cellulosics	5.00	0.00	0.00	
Rubber	0.00	0.00	0.00	
Plastics	0.00	0.00	0.00	
Solidified, Inorganic Matrix	0.00	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	0.00	0.00	0.00	
Packaging Material, Steel	131.00			
Packaging Material, Plastic	37.00			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

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

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	8.28E-02
Pu-238	2.36E-02
Pu-239	9.01E-01
Pu-240	2.02E-01
Pu-241	2.70E+00
Pu-242	1.21E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W443													
As-Generated Volumes						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	0.0	157.9	450.7	0.0	0.0	668.5	55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	668.5
As-Generated	Stored 0.0	Projected 668.5	Total 668.5										
				Final Form	Stored 0.0	Projected 668.5	Total 668.5						

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste stream is surplus facilities cleanout and D&D wastes, ranging from contaminated clothing to process equipment and sludges.
Waste Stream Source Description	Cleanout and D&D of all 100 Area Inactive Facilities (including C, D, DR, KE, KW, H, F, and N reactors, 104F and H Storage Basins, 100N Deactivation, N Basin Cleanout, Emergency Dump Basin, and the Spacer Silo) and the following 200 Area Inactive Facilities: 202S (REDOX), 233S (Plutonium Concentration Facility), and 221S (U Plant).
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

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TWBIR ID: RL-W444

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W444	Handling	CH	Stream Name	Future CH-MTRU SST Long Length Equipment			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	MTRU	Generator Site	N/A	Final Waste Form	Heterogeneous Debris		Waste Matrix Code	S5420

EPA Codes	
As-Generated	
Uncompiled	

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	68.00	0.00	0.00	
Aluminum-Base Metal/Alloys	0.00	0.00	0.00	
Other Metal/Alloys	60.00	0.00	0.00	
Other Inorganic Materials	35.00	0.00	0.00	
Cellulosics	5.00	0.00	0.00	
Rubber	0.00	0.00	0.00	
Plastics	6.00	0.00	0.00	
Solidified, Inorganic Matrix	0.00	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	0.00	0.00	0.00	
Packaging Material, Steel	154.00			
Packaging Material, Plastic	1.20			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	No	
Asbestos:	No	
PCBs:	No	
Source:	Facility/Equipment Operation and Maintenance Waste	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	8.28E-02
Pu-238	2.36E-02
Pu-239	9.01E-01
Pu-240	2.02E-01
Pu-241	2.70E+00
Pu-242	1.21E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W444													
As-Generated Volumes						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	0.0	0.0	385.7	110.2	495.9	Standard Waste Box	0.0	0.0	0.0	0.0	0.0	495.9
As-Generated	Stored 0.0	Projected 495.9	Total 495.9				Final Form	Stored 0.0	Projected 495.9	Total 495.9			

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Description is presently not available; however typical deactivation waste includes cleanout and removal of equipment, mixers, tanks, vessels and pumps.
Waste Stream Source Description	Future long-length equipment removed from Hanford's tanks.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	N/A

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TWBIR ID: RL-W445

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W445	Handling	RH	Stream Name	105KE TRU RH solidified inorganic S3150 Non-mixed			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	TRU	Generator Site	N/A	Final Waste Form	Solidified Inorganics		Waste Matrix Code	S3150

EPA Codes	Waste Material Parameters (kg/m3)			
As-Generated	Material Parameter	Average	Lower	Upper
N/A	Iron-Base Metal/Alloys	212.02	210.69	213.34
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00
	Other Metal/Alloys	0.00	0.00	0.00
	Other Inorganic Materials	7.91	7.91	7.91
	Cellulosics	0.00	0.00	0.00
	Rubber	0.00	0.00	0.00
	Plastics	0.00	0.00	0.00
	Solidified, Inorganic Matrix	778.27	766.90	789.64
	Cement (Solidified)	0.00	0.00	0.00
	Vitrified	0.00	0.00	0.00
	Solidified, Organic Matrix	0.00	0.00	0.00
	Soils	0.00	0.00	0.00
	Packaging Material, Steel	434.00		
	Packaging Material, Plastic	0.00		
	Packaging Material, Lead	464.00		
	Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors	TRUCON Codes
Category: Defense TRU Waste	N/A
Residues: No	
Asbestos: N/A	
PCBs: No	
Source: Facility/Equipment Operation and Maintenance Waste	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	2.47E+00
Ba-137m	2.10E+00
Cs-137	1.11E+00
Pu-238	9.23E-01
Pu-239	7.10E-03
Pu-240	1.27E-02
Pu-241	2.87E+02
Sr-90	1.14E+00
Y-90	2.39E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W445													
As-Generated Volumes						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	15.1	115.7	0.0	0.0	0.0	130.8	RH Canister	15.1	0.0	0.0	0.0	0.0	130.8
As-Generated	Stored 15.1	Projected 115.7	Total 130.8				Final Form	Stored 15.1	Projected 115.7	Total 130.8			

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REACTOR FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REACTOR FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

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TWBIR ID: RL-W446

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W446	Handling	RH	Stream Name	105KE TRU RH inorganic non-metal S5121 Non-mixed			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	N/A	Final Waste Form	Inorganic Non-Metal	Waste Matrix Code	S5121

EPA Codes
As-Generated
N/A

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	304.81	231.62	354.62	
Aluminum-Base Metal/Alloys	0.00	0.00	0.00	
Other Metal/Alloys	0.00	0.00	0.00	
Other Inorganic Materials	1955.60	1905.15	2029.74	
Cellulosics	0.00	0.00	0.00	
Rubber	0.00	0.00	0.00	
Plastics	15.19	11.54	17.67	
Solidified, Inorganic Matrix	56.98	43.30	66.29	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	0.00	0.00	0.00	
Packaging Material, Steel	434.00			
Packaging Material, Plastic	0.00			
Packaging Material, Lead	464.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	No	
Asbestos:	N/A	
PCBs:	No	
Source:	Facility/Equipment Operation and Maintenance Waste	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	9.93E+00
Ba-137m	3.35E+00
Cs-137	1.77E+00
Pu-238	1.10E+00
Pu-239	1.08E-02
Pu-240	2.34E-02
Pu-241	8.61E+02
Pu-242	1.68E-07
Sr-90	1.57E+00
Y-90	3.15E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W446													
As-Generated Volumes							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	22.3	0.0	0.0	0.0	0.0	22.3	RH Canister	22.3	0.0	0.0	0.0	0.0	22.3
As-Generated	Stored 22.3	Projected 0.0	Total 22.3			Final Form	Stored 22.3	Projected 0.0	Total 22.3				

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REACTOR FACILITY.

Waste Stream Source Description The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the REACTOR FACILITY.

Current Container Comments N/A

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W447	Handling	CH	Stream Name	201C MTRU CH soils S4100 Mixed RCRA w/ met			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	MTRU	Generator Site	N/A	Final Waste Form	Soils	Waste Matrix Code	S4100

EPA Codes
As-Generated
N/A

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	0.00	0.00	0.00	
Aluminum-Base Metal/Alloys	0.00	0.00	0.00	
Other Metal/Alloys	28.78	28.57	38.24	
Other Inorganic Materials	0.00	0.00	0.00	
Cellulosics	66.67	66.67	66.67	
Rubber	0.00	0.00	0.00	
Plastics	33.33	33.33	33.33	
Solidified, Inorganic Matrix	1.17	0.19	4.62	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	443.11	251.95	565.05	
Packaging Material, Steel	131.00			
Packaging Material, Plastic	37.00			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

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

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	7.18E-04
Pu-238	2.94E-04
Pu-239	1.08E-02
Pu-240	2.42E-03
Pu-241	4.12E-02
Pu-242	1.46E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W447													
As-Generated Volumes							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	9.9	0.0	0.0	0.0	0.0	9.9	55 Gallon Drum	9.9	0.0	0.0	0.0	0.0	9.9
As-Generated	Stored 9.9	Projected 0.0	Total 9.9				Final Form	Stored 9.9	Projected 0.0	Total 9.9			

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description The waste is generated from Remediation/D&D Waste activities at the PROCESS BUILDING, 3 HOT CELLS (DEMO'D).

Waste Stream Source Description The waste is generated from Remediation/D&D Waste activities at the PROCESS BUILDING, 3 HOT CELLS (DEMO'D).

Current Container Comments N/A

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

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TWBIR ID: RL-W448

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W448	Handling	CH	Stream Name	201C MTRU CH heterogeneous S5900 Mixed RCRA w/ met			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	MTRU	Generator Site	N/A	Final Waste Form	Heterogeneous Debris	Waste Matrix Code	S5900

EPA Codes	
As-Generated	
N/A	

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	0.00	0.00	0.00	
Aluminum-Base Metal/Alloys	0.00	0.00	0.00	
Other Metal/Alloys	28.57	28.57	28.57	
Other Inorganic Materials	9.47	9.47	75.76	
Cellulosics	66.67	66.67	66.67	
Rubber	123.40	99.29	208.14	
Plastics	33.33	33.33	33.33	
Solidified, Inorganic Matrix	0.96	0.43	1.43	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	325.10	295.24	337.00	
Packaging Material, Steel	131.00			
Packaging Material, Plastic	37.00			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

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

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	3.12E-05
Pu-238	1.28E-05
Pu-239	4.68E-04
Pu-240	1.05E-04
Pu-241	1.79E-03
Pu-242	6.32E-09

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W448													
As-Generated Volumes							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	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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TWBIR ID: RL-W448

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description The waste is generated from Remediation/D&D Waste activities at the PROCESS BUILDING, 3 HOT CELLS (DEMO'D).

Waste Stream Source Description The waste is generated from Remediation/D&D Waste activities at the PROCESS BUILDING, 3 HOT CELLS (DEMO'D).

Current Container Comments N/A

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

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

Annex J

TWBIR ID: RL-W449

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W449	Handling	CH	Stream Name	202A MTRU CH solidified inorganic S3119 Mixed RCRA w/ org,met,Hg			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	MTRU	Generator Site	N/A	Final Waste Form	Solidified Inorganics	Waste Matrix Code	S3119

EPA Codes	Waste Material Parameters (kg/m3)			
As-Generated	Material Parameter	Average	Lower	Upper
N/A	Iron-Base Metal/Alloys	0.01	0.00	0.01
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00
	Other Metal/Alloys	73.33	71.43	74.29
	Other Inorganic Materials	0.00	0.00	0.00
	Cellulosics	0.00	0.00	0.00
	Rubber	0.00	0.00	0.00
	Plastics	0.00	0.00	0.00
	Solidified, Inorganic Matrix	109.89	64.80	200.00
	Cement (Solidified)	0.00	0.00	0.00
	Vitrified	0.00	0.00	0.00
	Solidified, Organic Matrix	0.00	0.00	0.00
	Soils	66.59	31.31	105.00
	Packaging Material, Steel	131.00		
	Packaging Material, Plastic	37.00		
	Packaging Material, Lead	0.00		
	Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors	TRUCON Codes
Category: Defense TRU Waste	N/A
Residues: No	
Asbestos: N/A	
PCBs: No	
Source: Facility/Equipment Operation and Maintenance Waste	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	1.22E+00
Pu-238	7.49E-04
Pu-239	2.14E-02
Pu-240	4.80E-03
Pu-241	5.20E-02
Pu-242	2.89E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W449													
As-Generated Volumes						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	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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TWBIR ID: RL-W449

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.

Waste Stream Source Description The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.

Current Container Comments N/A

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

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

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TWBIR ID: RL-W450

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W450	Handling	CH	Stream Name	202A MTRU CH solidified inorganic S3119 Mixed RCRA w/ org,ign			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	MTRU	Generator Site	N/A	Final Waste Form	Solidified Inorganics	Waste Matrix Code	S3119

EPA Codes
As-Generated
N/A

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	0.00	0.00	0.00	
Aluminum-Base Metal/Alloys	0.00	0.00	0.00	
Other Metal/Alloys	71.43	71.43	71.43	
Other Inorganic Materials	11.90	11.90	11.90	
Cellulosics	0.00	0.00	0.00	
Rubber	0.00	0.00	0.00	
Plastics	21.67	21.67	21.67	
Solidified, Inorganic Matrix	56.07	55.00	57.14	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	0.00	0.00	0.00	
Packaging Material, Steel	131.00			
Packaging Material, Plastic	37.00			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	No	
Asbestos:	N/A	
PCBs:	No	
Source:	Facility/Equipment Operation and Maintenance Waste	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	9.41E-04
Pu-238	3.86E-04
Pu-239	1.41E-02
Pu-240	3.17E-03
Pu-241	5.40E-02
Pu-242	1.91E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W450													
As-Generated Volumes							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	0.8	0.0	0.0	0.0	0.0	0.8	55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8
As-Generated	Stored 0.8	Projected 0.0	Total 0.8				Final Form	Stored 0.8	Projected 0.0	Total 0.8			

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TWBIR ID: RL-W450

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.

Waste Stream Source Description The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.

Current Container Comments N/A

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

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

TWBIR ID: RL-W451

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W451	Handling	CH	Stream Name	202A MTRU CH solidified inorganic S3119 Mixed RCRA w/ org			Inventory Date	9/30/2002	
Local ID	N/A	Waste Type	MTRU	Generator Site	N/A	Final Waste Form	Solidified Inorganics		Waste Matrix Code	S3119

EPA Codes
As-Generated
N/A

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	0.00	0.00	0.00	
Aluminum-Base Metal/Alloys	0.00	0.00	0.00	
Other Metal/Alloys	71.43	71.43	71.43	
Other Inorganic Materials	7.98	7.98	7.98	
Cellulosics	0.00	0.00	0.00	
Rubber	0.00	0.00	0.00	
Plastics	21.19	21.19	21.19	
Solidified, Inorganic Matrix	44.17	44.17	44.17	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	0.00	0.00	0.00	
Packaging Material, Steel	131.00			
Packaging Material, Plastic	37.00			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	No	
Asbestos:	N/A	
PCBs:	No	
Source:	Facility/Equipment Operation and Maintenance Waste	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	2.68E-04
Pu-238	1.10E-04
Pu-239	4.03E-03
Pu-240	9.03E-04
Pu-241	1.54E-02
Pu-242	5.44E-08

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W451													
As-Generated Volumes							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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TWBIR ID: RL-W451

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.

Waste Stream Source Description The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.

Current Container Comments N/A

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

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TWBIR ID: RL-W452

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W452	Handling	CH	Stream Name	202A MTRU CH uncategorized metal S5119 Mixed RCRA w/ met			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	MTRU	Generator Site	N/A	Final Waste Form	Uncategorized Metal	Waste Matrix Code	S5119

EPA Codes	
As-Generated	
N/A	

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	0.00	0.00	0.00	
Aluminum-Base Metal/Alloys	0.00	0.00	0.00	
Other Metal/Alloys	90.39	90.39	90.39	
Other Inorganic Materials	0.96	0.96	0.96	
Cellulosics	9.03	9.03	9.03	
Rubber	0.00	0.00	0.00	
Plastics	19.92	19.92	19.92	
Solidified, Inorganic Matrix	0.00	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	0.00	0.00	0.00	
Packaging Material, Steel	154.00			
Packaging Material, Plastic	1.20			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	No	
Asbestos:	N/A	
PCBs:	No	
Source:	Facility/Equipment Operation and Maintenance Waste	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	8.08E-04
Pu-238	2.61E-04
Pu-239	9.80E-03
Pu-240	2.20E-03
Pu-241	3.24E-02
Pu-242	1.32E-07

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W452													
As-Generated Volumes							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
Standard Waste Box	7.6	0.0	0.0	0.0	0.0	7.6	Standard Waste Box	7.6	0.0	0.0	0.0	0.0	7.6
As-Generated	Stored 7.6	Projected 0.0	Total 7.6			Final Form	Stored 7.6	Projected 0.0	Total 7.6				

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TWBIR ID: RL-W452

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

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TWBIR ID: RL-W453

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W453	Handling	CH	Stream Name	202A MTRU CH inorganic non-metal S5190 Mixed State Reg			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	MTRU	Generator Site	N/A	Final Waste Form	Inorganic Non-Metal	Waste Matrix Code	S5190

EPA Codes	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	182.40	182.40	182.40	Residues:	No		Am-241	9.35E-03
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	N/A		Pu-238	2.67E-03
	Other Metal/Alloys	39.20	39.20	39.20	PCBs:	No		Pu-239	1.02E-01
	Other Inorganic Materials	342.00	342.00	342.00	Source:	Facility/Equipment Operation and Maintenance Waste		Pu-240	2.28E-02
	Cellulosics	1.20	1.20	1.20				Pu-241	3.05E-01
	Rubber	0.00	0.00	0.00				Pu-242	1.37E-06
	Plastics	12.96	12.96	12.96					
	Solidified, Inorganic Matrix	0.00	0.00	0.00					
	Cement (Solidified)	0.00	0.00	0.00					
	Vitrified	0.00	0.00	0.00					
	Solidified, Organic Matrix	0.00	0.00	0.00					
	Soils	0.00	0.00	0.00					
	Packaging Material, Steel	131.00							
	Packaging Material, Plastic	37.00							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W453													
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: RL-W453

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

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TWBIR ID: RL-W454

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W454	Handling	CH	Stream Name	202A TRU CH combustible S5319 Non-mixed			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	TRU	Generator Site	N/A	Final Waste Form	Combustible	Waste Matrix Code	S5319

EPA Codes	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	4.80	4.80	4.80	Residues:	No		Am-241	1.31E-01
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	N/A		Pu-238	3.73E-02
	Other Metal/Alloys	24.00	24.00	24.00	PCBs:	No		Pu-239	1.42E+00
	Other Inorganic Materials	0.00	0.00	0.00	Source:	Facility/Equipment Operation and Maintenance Waste		Pu-240	3.18E-01
	Cellulosics	1.20	1.20	1.20				Pu-241	4.27E+00
	Rubber	24.00	24.00	24.00				Pu-242	1.92E-05
	Plastics	105.12	105.12	105.12					
	Solidified, Inorganic Matrix	0.00	0.00	0.00					
	Cement (Solidified)	0.00	0.00	0.00					
	Vitrified	0.00	0.00	0.00					
	Solidified, Organic Matrix	0.00	0.00	0.00					
	Soils	0.00	0.00	0.00					
	Packaging Material, Steel	131.00							
	Packaging Material, Plastic	37.00							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W454													
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: RL-W454

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.

Waste Stream Source Description The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.

Current Container Comments N/A

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

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TWBIR ID: RL-W455

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W455	Handling	CH	Stream Name	202A MTRU CH combustible S5319 Mixed RCRA w/ met,cor			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	MTRU	Generator Site	N/A	Final Waste Form	Combustible	Waste Matrix Code	S5319

EPA Codes
As-Generated
N/A

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	63.57	63.57	63.57	
Aluminum-Base Metal/Alloys	0.00	0.00	0.00	
Other Metal/Alloys	0.95	0.95	0.95	
Other Inorganic Materials	0.00	0.00	0.00	
Cellulosics	9.52	9.52	9.52	
Rubber	0.00	0.00	0.00	
Plastics	131.14	131.14	131.14	
Solidified, Inorganic Matrix	0.00	0.00	0.00	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	0.00	0.00	0.00	
Packaging Material, Steel	131.00			
Packaging Material, Plastic	37.00			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	No	
Asbestos:	N/A	
PCBs:	No	
Source:	Facility/Equipment Operation and Maintenance Waste	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	3.11E-02
Pu-238	1.00E-02
Pu-239	3.77E-01
Pu-240	8.44E-02
Pu-241	1.25E+00
Pu-242	5.08E-06

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W455													
As-Generated Volumes						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: RL-W455

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

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TWBIR ID: RL-W456

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W456	Handling	CH	Stream Name	202A MTRU CH combustible S5319 Mixed RCRA w/ met			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	MTRU	Generator Site	N/A	Final Waste Form	Combustible	Waste Matrix Code	S5319

EPA Codes
As-Generated
N/A

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	54.32	2.40	223.91	
Aluminum-Base Metal/Alloys	0.00	0.00	0.00	
Other Metal/Alloys	26.22	0.48	84.37	
Other Inorganic Materials	1.25	1.25	15.47	
Cellulosics	5.41	1.20	66.02	
Rubber	47.33	1.09	108.03	
Plastics	73.43	4.32	233.67	
Solidified, Inorganic Matrix	1.41	1.41	46.57	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	0.00	0.00	0.00	
Packaging Material, Steel	131.00			
Packaging Material, Plastic	37.00			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	No	
Asbestos:	N/A	
PCBs:	No	
Source:	Facility/Equipment Operation and Maintenance Waste	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	1.04E-01
Pu-238	3.06E-02
Pu-239	1.16E+00
Pu-240	2.60E-01
Pu-241	3.58E+00
Pu-242	1.57E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W456													
As-Generated Volumes						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	9.0	0.0	0.0	0.0	0.0	9.0	55 Gallon Drum	9.0	0.0	0.0	0.0	0.0	9.0
As-Generated	Stored 9.0	Projected 0.0	Total 9.0			Final Form	Stored 9.0	Projected 0.0	Total 9.0				

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TWBIR ID: RL-W456

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Waste Stream Source Description	The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.
Current Container Comments	N/A
EPA Comments	N/A
Management Comments	N/A
Acceptance Comments	N/A
Final Form Comments	For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

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TWBIR ID: RL-W457

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W457	Handling	CH	Stream Name	202A MTRU CH combustible S5319 Mixed State Reg			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	MTRU	Generator Site	N/A	Final Waste Form	Combustible	Waste Matrix Code	S5319

EPA Codes	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	25.60	19.20	57.60	Residues:	No		Am-241	1.45E-01
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	N/A		Pu-238	4.26E-02
	Other Metal/Alloys	24.00	24.00	72.00	PCBs:	No		Pu-239	1.62E+00
	Other Inorganic Materials	2.88	2.88	8.64	Source:	Facility/Equipment Operation and Maintenance Waste		Pu-240	3.62E-01
	Cellulosics	7.20	1.20	18.00				Pu-241	4.97E+00
	Rubber	1.20	1.20	2.40				Pu-242	2.18E-05
	Plastics	117.60	112.32	122.40					
	Solidified, Inorganic Matrix	0.00	0.00	0.00					
	Cement (Solidified)	0.00	0.00	0.00					
	Vitrified	0.00	0.00	0.00					
	Solidified, Organic Matrix	0.00	0.00	0.00					
	Soils	0.00	0.00	0.00					
	Packaging Material, Steel	131.00							
	Packaging Material, Plastic	37.00							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W457													
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 The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.

Waste Stream Source Description The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.

Current Container Comments N/A

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

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TWBIR ID: RL-W458

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W458	Handling	CH	Stream Name	202A MTRU CH filter S5410 Mixed RCRA w/ met,Hg			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	MTRU	Generator Site	N/A	Final Waste Form	Filter	Waste Matrix Code	S5410

EPA Codes
As-Generated
N/A

Waste Material Parameters (kg/m3)				
Material Parameter	Average	Lower	Upper	
Iron-Base Metal/Alloys	0.48	0.48	0.48	
Aluminum-Base Metal/Alloys	0.00	0.00	0.00	
Other Metal/Alloys	6.67	6.67	6.67	
Other Inorganic Materials	23.81	23.81	23.81	
Cellulosics	0.00	0.00	0.00	
Rubber	0.00	0.00	0.00	
Plastics	7.14	7.14	7.14	
Solidified, Inorganic Matrix	28.57	28.57	28.57	
Cement (Solidified)	0.00	0.00	0.00	
Vitrified	0.00	0.00	0.00	
Solidified, Organic Matrix	0.00	0.00	0.00	
Soils	0.00	0.00	0.00	
Packaging Material, Steel	131.00			
Packaging Material, Plastic	37.00			
Packaging Material, Lead	0.00			
Packaging Material, Steel Plug	0.00			

Final Waste Form Descriptors		TRUCON Codes
Category:	Defense TRU Waste	N/A
Residues:	No	
Asbestos:	N/A	
PCBs:	No	
Source:	Facility/Equipment Operation and Maintenance Waste	

Final Form Radionuclides	
Isotope	Typical Concentration (Ci/m3)
Am-241	9.33E-01
Ba-137m	4.49E-04
Cs-137	4.88E-04
Pu-238	6.51E-01
Pu-239	1.99E+00
Pu-240	1.11E+00
Pu-241	5.99E+01
Pu-242	4.04E-04
Sr-90	4.45E-04
Tc-99	1.04E-07
Y-90	4.45E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W458													
As-Generated Volumes						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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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.

Waste Stream Source Description The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.

Current Container Comments N/A

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source

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TWBIR ID: RL-W459

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	RL-W459	Handling	CH	Stream Name	202A MTRU CH filter S5410 Mixed State Reg			Inventory Date	9/30/2002
Local ID	N/A	Waste Type	MTRU	Generator Site	N/A	Final Waste Form	Filter	Waste Matrix Code	S5410

EPA Codes	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	2.85E-01
	Aluminum-Base Metal/Alloys	0.00	0.00	0.00	Asbestos:	N/A		Ba-137m	7.70E-04
	Other Metal/Alloys	6.85	2.11	48.10	PCBs:	No		Cs-137	8.38E-04
	Other Inorganic Materials	74.43	39.68	117.62	Source:	Facility/Equipment Operation and Maintenance Waste		Pu-238	2.31E-01
	Cellulosics	0.00	0.00	0.00				Pu-239	1.70E+00
	Rubber	0.00	0.00	0.00				Pu-240	5.22E-01
	Plastics	4.62	1.05	28.57				Pu-241	2.04E+01
	Solidified, Inorganic Matrix	0.00	0.00	0.00				Pu-242	1.17E-04
	Cement (Solidified)	0.00	0.00	0.00				Sr-90	7.64E-04
	Vitrified	0.00	0.00	0.00				Tc-99	1.79E-07
	Solidified, Organic Matrix	0.00	0.00	0.00				Y-90	7.64E-04
	Soils	0.00	0.00	0.00					
	Packaging Material, Steel	152.42							
	Packaging Material, Plastic	3.66							
	Packaging Material, Lead	0.00							
	Packaging Material, Steel Plug	0.00							

Waste Volume Detail (Cubic meters) for TWBIR ID : RL-W459													
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
Standard Waste Box	5.7	0.0	0.0	0.0	0.0	5.7	Standard Waste Box	5.7	0.0	0.0	0.0	0.0	5.7
As-Generated	Stored	6.1	Projected	0.0	Total	6.1	Final Form	Stored	6.1	Projected	0.0	Total	6.1

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.

Waste Stream Source Description The waste is generated from Facility/Equipment Operation and Maintenance Waste activities at the PUREX CANYON AND SERVICE FACILITY.

Current Container Comments N/A

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments For convenience projected waste generation has been inserted into streams which have the largest existing volume relative to the generator source