ANNUAL TRANSURANIC WASTE INVENTORY REPORT – 2007
APPENDIX C
Potential TRU Waste

The following waste stream profiles contain information on waste streams that cannot be shipped to WIPP at the time of this inventory update for various reasons, as stated in section 4.0 of this report. These reasons include: waste stream contents that are not allowed, radiological composition, lack of characterization information, or estimates of radiological activities that may exceed regulatory limits, to name a few. As reported in section 4.0 of this report, some of these waste streams may be treated or otherwise reworked to allow shipment to WIPP in the future.

The TRU waste sites that have reported potential TRU waste streams are:

Argonne National Laboratory – West (currently MFC)	AW
Bettis Atomic Power Laboratory	BT
Framatome (Richland)	FR
Idaho National Laboratory	IN
Los Alamos National Laboratory	LA
Lawrence Berkeley Laboratory	LB
Lawrence Livermore National Laboratory	LL
U.S. Army Material Command	MC
Paducah Gaseous Diffusion Plant	PA
Hanford (Richland Operations)	RL
Hanford (Office of River Protection)	RP
Separations Process Research Unit	SP
Savannah River Site	SR
General Electric Vallecitos Nuclear Center	VN
West Valley Demonstration Project	WV

Waste Stream ID: **AW-IN-TRA-BE-01**

Appendix C

TRU Waste Inventory Profile Report

Site	Argonne National Laboratory - West	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5000	**Handling**	RH
Source Cat.	Facility/Equipment Operation and Maintenance Waste	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	TRA Beryllium Blocks			**Activity Concentrations Decayed to CY**			2001

Waste Volume Detail (m^3)

Current Form Volumes

Container Type	Stored	Proj.	Total
Beryllium Reflector Block	9.0	7.2	16.2
Shim Control Cylinder	6.2	3.6	9.7
Current Form Total	15.2	10.8	25.9

Final Form Volumes

Container Type	Stored	Proj.	Total
RH Can w/ Remov Lid - Dir Ld	15.1	10.7	25.8
Final Form Total	15.1	10.7	25.8

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	429.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	560.60
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	4.89E-02
Cs-137	6.11E+00
Pu-238	2.95E-02
Pu-239	5.90E-03
Pu-240	1.54E-02
Pu-241	1.97E+00
Pu-242	3.23E-04
Sr-90	1.80E+00
U-233	2.15E-05
U-234	5.50E-06
U-238	1.88E-06

No Hazardous Waste Numbers Provided

TRUCON Code(s)

317

Waste Stream Description

This waste stream consists of beryllium reflector blocks and outer shim control cylinders (OSCCs) removed from the Advanced Test Reactor (ATR) at INL.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **AW-W018**

Appendix C

TRU Waste Inventory Profile Report

Site	Argonne National Laboratory - West	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	X7520	**Handling**	RH
Source Cat.	Facility/Equipment Operation and Maintenance Waste	**Defense Determination**	Likely Defense-Related			**Inventory Date**	12/31/2006
Stream Name	SODIUM - TRU					**Activity Concentrations Decayed to CY**	1996

Waste Volume Detail (m^3)

Current Form Volumes

Container Type	Stored	Proj.	Total
Liner - RSWF	0.6	0.0	0.6
Liner - RSWF	3.4	0.0	3.4
Current Form Total	4.0	0.0	4.0

Final Form Volumes

Container Type	Stored	Proj.	Total
RH Can w/ Remov Lid - Dir Ld	4.5	0.0	4.5
Final Form Total	4.5	0.0	4.5

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	2035.00
Aluminum-based Metals/Alloys	0.00
Other Metals	254.40
Other Inorganic Materials	127.20
Cellulosics	127.20
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	560.60
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	1.45E+02
Cs-137	6.71E+04
Pu-238	3.61E+02
Pu-239	6.41E+03
Pu-240	1.08E+03
Pu-241	2.67E+04
Sr-90	2.74E+04

No Hazardous Waste Numbers Provided

TRUCON Code(s)

317

Waste Stream Description

Sodium was used as a primary and secondary coolant for the EBR-II reactor. Waste sodium metal is a hazardous constituent of some of the TRU waste stored at the ANL-W Radioactive Scrap and Waste Facility (RSWF). The waste was generated during maintenance and operational activities. The sodium typically coats waste metal equipment, experiments, and components removed during reactor operations and maintenance activities or is contained in blanket elements. This waste will require treatment prior to disposal at WIPP. Final waste form has not been determined yet, but the sodium will be removed from the waste. Once removed, the resulting waste may not be considered TRU, especially in the case of sodium-bonded blanket fuels.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **AW-W019**

Appendix C

TRU Waste Inventory Profile Report

Site	Argonne National Laboratory - West	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	X7520	**Handling**	RH
Source Cat.	Facility/Equipment Operation and Maintenance Waste	**Defense Determination**	Likely Defense-Related			**Inventory Date**	12/31/2006
Stream Name	SODIUM POTASSIUM -NaK- TRU					**Activity Concentrations Decayed to CY**	1996

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
Liner - RSWF	0.2	0.0	0.2
Current Form Total	0.2	0.0	0.2

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
RH Can w/ Remov Lid - Dir Ld	0.9	0.0	0.9
Final Form Total	0.9	0.0	0.9

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	2077.60
Aluminum-based Metals/Alloys	0.00
Other Metals	259.70
Other Inorganic Materials	130.00
Cellulosics	130.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	560.60
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	1.81E+02
Cs-137	8.37E+04
Pu-238	4.51E+02
Pu-239	7.99E+03
Pu-240	1.34E+03
Pu-241	3.33E+04
Sr-90	3.42E+04

No Hazardous Waste Numbers Provided

TRUCON Code(s)

317

Waste Stream Description

Sodium potassium alloy (NaK) was used as a coolant for some components of the EBR-II Reactor. Waste NaK metal is a hazardous constituent of some transuranic wastes stored at the ANL-W Radioactive Scrap and Waste Facility (RSWF). The remote-handled NaK waste at RSWF is contained in stainless steel capsules or tubing and placed inside carbon steel waste cans which then are placed in stainless steel outer cans. The entire package is then stored in RSWF storage liners (carbon steel soil storage vaults). The NaK was generated during maintenance and operational activities. NaK waste is in canisters with TRU waste metal pieces and rods from reactor experiments. This waste will require treatment prior to disposal at WIPP. Final waste form has not been determined yet.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **AW-W029**

Appendix C

TRU Waste Inventory Profile Report

Site	Argonne National Laboratory - West	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5111	**Handling**	RH
Source Cat.	R&D/R&D Laboratory Waste	**Defense Determination**	Likely Defense-Related			**Inventory Date**	12/31/2006
Stream Name	RSWF TRANSURANIC WASTE					**Activity Concentrations Decayed to CY**	1996

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
Liner - RSWF	1.5	0.0	1.5
Liner - RSWF	2.1	0.0	2.1
Liner - RSWF	8.5	0.0	8.5
Current Form Total	12.1	0.0	12.1

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
RH Can w/ Remov Lid - Dir Ld	12.5	0.0	12.5
Final Form Total	12.5	0.0	12.5

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	126.90
Aluminum-based Metals/Alloys	2.40
Other Metals	266.50
Other Inorganic Materials	14.60
Cellulosics	8.30
Rubber	0.50
Plastics	5.40
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	560.60
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	1.79E+02
Cs-137	8.28E+04
Pu-238	4.46E+02
Pu-239	7.92E+03
Pu-240	1.33E+03
Pu-241	3.30E+04
Sr-90	3.39E+04

No Hazardous Waste Numbers Provided

TRUCON Code(s)

317

Waste Stream Description

Radioactive Scrap and Waste Facility (RSWF) Waste containers storing TRU waste from various facilities. Waste includes analytical samples, EBR-I waste and subassembly hardware.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **AW-W048**

Appendix C

TRU Waste Inventory Profile Report

Site	Argonne National Laboratory - West	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5400	**Handling**	RH
Source Cat.	Facility/Equipment Operation and Maintenance Waste	**Defense Determination**	Likely Defense-Related			**Inventory Date**	12/31/2006
Stream Name	FCF Indirect RH-MTRU Waste					**Activity Concentrations Decayed to CY**	2006

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
Canister - (MFC) o/p 45-gal Drums	2.0	4.1	6.1
Liner - RSWF	0.2	0.0	0.2
Current Form Total	2.2	4.1	6.3

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
RH Can w/ Remov Lid - Dir Ld	1.8	4.5	6.2
Final Form Total	1.8	4.5	6.2

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	526.00
Aluminum-based Metals/Alloys	42.30
Other Metals	472.70
Other Inorganic Materials	44.00
Cellulosics	49.30
Rubber	13.70
Plastics	51.80
Cements	0.00
Inorganic Matrix	73.90
Organic Matrix	0.60
Soils/gravel	2.30
Vitrified	0.00
Packaging Material, Steel	560.60
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Cs-137	8.98E+02
Pu-239	4.15E-01
Sr-90	9.76E+02
U-235	1.28E-04

Haz. Waste No(s).

D006

TRUCON Code(s)

325

Waste Stream Description

FCF Argon cell RH-MTRU waste - rags, plastic, glass, rubber, paper, cardboard, aluminum foil, metal, brushes, copper, bolts, smears, nylon sling, insulation, o-rings, etc.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **BT-T006**

Appendix C

TRU Waste Inventory Profile Report

Site	Bettis Atomic Power Laboratory	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5000	**Handling**	CH
Source Cat.	Discarding Excess/Expired Materials	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	Neutron Sources			**Activity Concentrations Decayed to CY**			1967

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
Shipping Assembly	49.1	0.0	49.1
Current Form Total	49.1	0.0	49.1

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
SLB2 (5' x 5' x 8) Dir Ld	50.9	0.0	50.9
Final Form Total	50.9	0.0	50.9

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	373.00
Aluminum-based Metals/Alloys	0.37
Other Metals	501.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.12
Plastics	353.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	216.30
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	9.77E-02
Cm-244	2.26E-11
Cs-137	1.89E-08
Pu-238	7.08E+01
Pu-239	6.27E-02
Pu-240	4.07E-03
Pu-241	1.52E+00
Sr-90	1.87E-08
U-234	4.89E-03
U-235	1.63E-09

Haz. Waste No(s).

D008

TRUCON Code(s)

320

Waste Stream Description

Neutron sources--(current form Source Capsule)

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **FR-MOX-MT02**

Appendix C

TRU Waste Inventory Profile Report

Site	Framatome	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5400	**Handling**	CH
Source Cat.	Remediation/D&D Waste	**Defense Determination**	Pending Determination			**Inventory Date**	12/31/2006
Stream Name	Framatome MOX Fuel Plant D&D TRU Heterogeneous Mixed Debris Waste					**Activity Concentrations Decayed to CY**	1986

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
85-gal Drum w/ 1 - 55-gal Drum w/o Liner	0.6	0.0	0.6
Current Form Total	0.6	0.0	0.6

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.4	0.0	0.4
Final Form Total	0.4	0.0	0.4

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	305.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	56.00
Rubber	21.00
Plastics	4.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	37.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	2.43E-06
Pu-238	1.48E-06
Pu-239	7.20E-07
Pu-240	4.30E-07
Pu-241	6.07E-05
Pu-242	1.00E-08

Haz. Waste No(s).

D008

TRUCON Code(s)

125/225

Waste Stream Description

This waste is from the D&D of a Mixed Oxide fuel fabrication plant. Wastes consist of discarded equipment (motors, grinders, scales, etc.) and decontamination wastes (rags, protective clothing, sweeps, etc.) from the D&D of the facility. The 6 M container includes 85 mixed oxide pellets.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **FR-MOX-T01**

Appendix C

TRU Waste Inventory Profile Report

Site	Framatome	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5400	**Handling**	CH
Source Cat.	Remediation/D&D Waste	**Defense Determination**	Pending Determination			**Inventory Date**	12/31/2006
Stream Name	Framatome MOX Fuel Plant D&D TRU Heterogeneous Debris Waste					**Activity Concentrations Decayed to CY**	1986

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
85-gal Drum w/ 1 - 55-gal Drum w/o Liner	8.4	0.0	8.4
85-gal Drum w/ Dot 6-M	0.3	0.0	0.3
Current Form Total	8.7	0.0	8.7

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	5.6	0.0	5.6
Final Form Total	5.6	0.0	5.6

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	305.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	56.00
Rubber	21.00
Plastics	4.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	37.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	2.43E-06
Pu-238	1.48E-06
Pu-239	7.20E-07
Pu-240	4.30E-07
Pu-241	6.07E-05
Pu-242	1.00E-08

No Hazardous Waste Numbers Provided

TRUCON Code(s)

125/225

Waste Stream Description

This waste is from the D&D of a Mixed Oxide fuel fabrication plant. Wastes consist of discarded equipment (motors, grinders, scales, etc.) and decontamination wastes (rags, protective clothing, sweeps, etc.) from the D&D of the facility. The 6 M container includes 85 mixed oxide pellets.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **IN-ID-RTC-S5000**

Appendix C

TRU Waste Inventory Profile Report

Site	Idaho National Laboratory	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5400	**Handling**	RH
Source Cat.	Remediation/D&D Waste	**Defense Determination**	Defense-Related	**Inventory Date**	12/31/2006		
Stream Name	RH TRU Debris waste from Reactor Technology Complex at THE INL			**Activity Concentrations Decayed to CY**	2009		

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.0	104.0	104.0
Current Form Total	0.0	104.0	104.0

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
RH Can w/ Remov Lid w/ 3 - 55-gal w/o Liner	0.0	148.6	148.6
Final Form Total	0.0	148.6	148.6

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	652.20
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

Haz. Waste No(s).

D004, D005, D006, D007, D008, D009, D010, D011, D019, F002, F005, U134

No TRUCON Codes Provided

Waste Stream Description

This is new waste stream and was never reported in TWBIR. AK report is being preapred to assure that the newly generated waste stream meets WIPP requirements. The waste is planned to be packaged in future (2009-2010). Approximately 500 drums (55 gallon) will be generated from this waste stream.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **IN-SBW-01A**

Appendix C

TRU Waste Inventory Profile Report

Site	Idaho National Laboratory	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3100	**Handling**	RH
Source Cat.	Materials Production/Recovery Effluents	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	SBW Treatment - Steam Reforming - Carbonate Waste Form			**Activity Concentrations Decayed to CY**			2006

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
Tank(s)	3520.0	0.0	3520.0
Current Form Total	3520.0	0.0	3520.0

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
RH Can w/ Remov Lid - Dir Ld	534.0	0.0	534.0
Final Form Total	534.0	0.0	534.0

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	1360.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	560.60
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	5.52E-01
Am-243	1.74E-04
Cm-244	1.59E-02
Cs-137	4.62E+02
Np-237	1.64E-02
Pu-238	7.00E+00
Pu-239	9.71E-01
Pu-240	1.05E-01
Pu-241	5.16E+00
Pu-242	8.18E-05
Pu-244	1.17E-12
Sr-90	2.70E+02
Th-230	8.70E-06
U-233	6.69E-07
U-234	1.04E-02
U-235	5.50E-04
U-236	5.55E-05
U-238	2.14E-04

Haz. Waste No(s).

D004, D005, D006, D007, D008, D009, D010, D011, F001, F002, F005, U134

No TRUCON Codes Provided

Waste Stream Description

The liquid SBW would be transferred from the storage tanks to the steam reforming process over a 1.0-year period. The steam reforming process is a fluidized bed reactor that converts the metals dissolved in the nitric acid into a dry granular powder. The fluidized bed operates at temperature between 600 and 1000 degrees centigrade. The carbonate waste form would be removed from the fluidized bed and transferred to the canning facility and placed by 90% loading in to 72-B canisters (direct loaded). The carbonate waste form would be RH-TRU waste, dried to 1% moisture, and would generate approximately 600 canisters with a surface dose rate <100 Rem/hr.
□

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***
NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **IN-SBW-01B**

Appendix C

TRU Waste Inventory Profile Report

Site	Idaho National Laboratory	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5400	**Handling**	RH
Source Cat.	Facility/Equipment Operation and Maintenance Waste	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	SBW Treatment - Steam Reforming Process - Debris			**Activity Concentrations Decayed to CY**			2010

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
RH Can w/ Remov Lid - Dir Ld	0.0	89.0	89.0
Current Form Total	0.0	89.0	89.0

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
RH Can w/ Remov Lid - Dir Ld	0.0	89.0	89.0
Final Form Total	0.0	89.0	89.0

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	700.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	2.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	560.60
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	5.52E-03
Am-243	8.04E-07
Cm-244	1.59E-04
Cs-137	4.62E+00
Np-237	1.64E-04
Pu-238	7.00E-02
Pu-239	9.71E-03
Pu-240	1.05E-03
Pu-241	5.16E-02
Pu-242	8.18E-07
Pu-244	2.00E-14
Sr-90	8.70E+00
Th-230	8.70E-08
U-233	6.69E-09
U-234	1.04E-04
U-235	5.50E-06
U-236	5.55E-06
U-238	2.14E-06

Haz. Waste No(s).

D004, D005, D006, D007, D008, D009, D010, D011, F001, F002, F005, U134

No TRUCON Codes Provided

Waste Stream Description

The debris from the steam reforming process would include spent HEPA filters and other failed equipment.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **IN-W146.699**

Appendix C

TRU Waste Inventory Profile Report

Site	Idaho National Laboratory	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3120	**Handling**	CH
Source Cat.	Remediation/D&D Waste	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	TRU HEAVY METAL SLUDGE					**Activity Concentrations Decayed to CY**	1989

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	2.1	0.0	2.1
Current Form Total	2.1	0.0	2.1

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	2.3	0.0	2.3
Final Form Total	2.3	0.0	2.3

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	394.20
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	399.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	37.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	3.24E-01
Cm-244	4.06E-01
Cs-137	3.07E+01
Pu-238	3.70E-01
Pu-239	3.03E-01
Sr-90	4.18E+01

Haz. Waste No(s).

D006, D007, D008, D009, D011

No TRUCON Codes Provided

Waste Stream Description

The waste stream was sludge generated from four catch tanks that were removed from service. The sludge was generated from activitiy in the TRA Hot Cell and the TRA Chemistry Laboratories. This was generated only "one time."

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **IN-W159.1072**

Appendix C

TRU Waste Inventory Profile Report

Site	Idaho National Laboratory	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3125	**Handling**	CH
Source Cat.	Pollution Control or Waste Treatment Process	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	EVAPORATOR AND DISSOLVER SLUDGE:Direct Ship			**Activity Concentrations Decayed to CY**			1989

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.8	0.0	0.8
Current Form Total	0.8	0.0	0.8

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
SWB Dir Ld w/ Liner	1.9	0.0	1.9
Final Form Total	1.9	0.0	1.9

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	153.50
Packaging Material, Plastic	1.20
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	0.00E+00
Pu-238	7.88E+02
Pu-239	5.85E+00
Pu-240	0.00E+00
Pu-241	0.00E+00
Pu-242	0.00E+00

Haz. Waste No(s).

D001, D009

No TRUCON Codes Provided

Waste Stream Description

This waste stream, generated at Mound Laboratory, consists of dry evaporator and dissolver sludge and insoluble residue. The consistency ranges from powder to sand-like particles. Limited amounts of other noncombustible wastes including Content Codes 803, 805, 810, 813, 814, 826, and 832 may be included. A few containers may have limited amounts of beryllium-contaminated wastes including glass, paper, gloves, and sample precipitates.

There is a potential for and lack of information on fines. In addition the drums may contain free liquids. The expected organic content in the drums is less than 14lb/ft3. No explosive, pyrophoric, or corrosive materials should be in the waste.

After removal from the bottom of dissolver pots, the dried sludge is rinsed with nitric acid and dried on a hotplate. Dried sludges are packaged in 1/2-gallon metal cans and sealed in a PE bag, or else packed in 1/2-gallon plastic-coated cardboard cartons and sealed in a PE bag. Each container is assayed and placed in PVC or PE sleeve bags. Sleeve bags can hold up to 5 containers per bag. Up to 8 sleeve bags are placed in each prepared 55-gallon drum. Drums are prepared according to post-1972 procedures, with plywood spacers as needed between on top of the rigid drum liner lid.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **IN-W325.1076**

Appendix C

TRU Waste Inventory Profile Report

Site	Idaho National Laboratory	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S9000	**Handling**	CH
Source Cat.	Source Information Not Compiled	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	Cert-repack					**Activity Concentrations Decayed to CY**	1989

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.2	0.0	0.2
Current Form Total	0.2	0.0	0.2

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.4	0.0	0.4
Final Form Total	0.4	0.0	0.4

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.30
Other Inorganic Materials	11.10
Cellulosics	63.00
Rubber	19.30
Plastics	191.80
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	37.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Pu-238	3.23E+01

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

There is no content information for this waste stream, which was generated at Mound Laboratory.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **IN-W325.679**

Appendix C

TRU Waste Inventory Profile Report

Site	Idaho National Laboratory	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S9000	**Handling**	CH
Source Cat.	Source Information Not Compiled	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	Direct Ship			**Activity Concentrations Decayed to CY**			1989

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.2	0.0	0.2
Current Form Total	0.2	0.0	0.2

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.2	0.0	0.2
SWB w/ 4 - 55-gal Drums w/ Liners	5.7	0.0	5.7
Final Form Total	5.9	0.0	5.9

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.17
Other Inorganic Materials	6.44
Cellulosics	36.55
Rubber	11.20
Plastics	111.27
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	208.26
Packaging Material, Plastic	17.03
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Pu-238	3.23E+01

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

There is no content information for this waste stream, which was generated at Mound Laboratory.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **IN-W341.671**

Appendix C

TRU Waste Inventory Profile Report

Site	Idaho National Laboratory	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5440	**Handling**	CH
Source Cat.	Source Information Not Compiled	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	ANL-W HFEF ANALYTICAL CHEMISTRY AND META:Cert-repack					**Activity Concentrations Decayed to CY**	1989

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
RH Insert	0.2	0.0	0.2
Current Form Total	0.2	0.0	0.2

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.2	0.0	0.2
Final Form Total	0.2	0.0	0.2

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	37.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Pu-239	9.39E+00
U-235	1.33E-03

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

This wastestream, which was generated at ANL-W was generated during analytical chemistry and metallography operations. Item Description Code (IDC) 153 was replaced by IDC 160, ANL-W HFEF Analytical Chemistry and Metallographic Combsutibles. The waste package contains lead as shielding.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **IN-W341.954**

Appendix C

TRU Waste Inventory Profile Report

Site	Idaho National Laboratory	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5440	**Handling**	CH
Source Cat.	Source Information Not Compiled	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	ANL-W HFEF ANALYTICAL CHEMISTRY AND META:Direct Ship					**Activity Concentrations Decayed to CY**	1989

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
RH Insert	0.2	0.0	0.2
Current Form Total	0.2	0.0	0.2

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
SWB w/ 4 - 55-gal Drums w/ Liners	1.9	0.0	1.9
Final Form Total	1.9	0.0	1.9

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	211.10
Packaging Material, Plastic	16.30
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Pu-239	3.10E+00
U-235	4.38E-04

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

This wastestream, which was generated at ANL-W was generated during analytical chemistry and metallography operations. Item Description Code (IDC) 153 was replaced by IDC 160, ANL-W HFEF Analytical Chemistry and Metallographic Combsutibles. The waste package contains lead as shielding.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **IN-W350.650**

Appendix C

TRU Waste Inventory Profile Report

Site	Idaho National Laboratory	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S9000	**Handling**	CH
Source Cat.	Source Information Not Compiled	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	SPECIAL SOURCE MATERIAL:Direct Ship			**Activity Concentrations Decayed to CY**		1989	

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.2	0.0	0.2
Current Form Total	0.2	0.0	0.2

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.2	0.0	0.2
Final Form Total	0.2	0.0	0.2

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	37.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Pu-239	5.74E+01
Pu-240	1.76E+02

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

There is no descriptive or constituent information available for this waste, which was generated at ANL-E.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **IN-W350.923**

Appendix C

TRU Waste Inventory Profile Report

Site	Idaho National Laboratory	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S9000	**Handling**	CH
Source Cat.	Source Information Not Compiled	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	SPECIAL SOURCE MATERIAL: Cert-repack					**Activity Concentrations Decayed to CY**	1989

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.2	0.0	0.2
Current Form Total	0.2	0.0	0.2

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.2	0.0	0.2
Final Form Total	0.2	0.0	0.2

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	37.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Pu-239	5.74E+01
Pu-240	1.76E+02

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

There is no descriptive or constituent information available for this waste, which was generated at ANL-E.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **IN-W353.859**

Appendix C

TRU Waste Inventory Profile Report

Site	Idaho National Laboratory	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3113	**Handling**	CH
Source Cat.	Source Information Not Compiled	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	SOLIDIFIED SOLUTIONS:Direct Ship			**Activity Concentrations Decayed to CY**			1989

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.2	0.0	0.2
Current Form Total	0.2	0.0	0.2

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
SWB Dir Ld w/ Liner	1.9	0.0	1.9
Final Form Total	1.9	0.0	1.9

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	153.50
Packaging Material, Plastic	1.20
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Np-237	3.33E-04
Pu-239	1.20E-01

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

This waste stream is from Bettis Atomic Power Laboratory. It consists of a single drum of TRU. No more information is available, but the waste is thought to be solidified inorganic solutions.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **IN-W359.853**

Appendix C

TRU Waste Inventory Profile Report

Site	Idaho National Laboratory	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S9000	**Handling**	CH
Source Cat.	Source Information Not Compiled	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	NEUTRON SOURCES			**Activity Concentrations Decayed to CY**			1989

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.6	0.0	0.6
Current Form Total	0.6	0.0	0.6

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.8	0.0	0.8
Final Form Total	0.8	0.0	0.8

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	37.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Pu-238	1.41E+02

No Hazardous Waste Numbers Provided

TRUCON Code(s)

111/211

Waste Stream Description

There is no descriptive or constituent information available for this waste, which was generated at Bettis Atomic Power Laboratory.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **IN-W360.852**

Appendix C

TRU Waste Inventory Profile Report

Site	Idaho National Laboratory	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S9000	**Handling**	CH
Source Cat.	Source Information Not Compiled	**Defense Determination**	Defense-Related	**Inventory Date**	12/31/2006		
Stream Name	MISCELLANEOUS SOURCES:RH Direct Ship			**Activity Concentrations Decayed to CY**	1989		

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.2	0.0	0.2
Current Form Total	0.2	0.0	0.2

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.2	0.0	0.2
Final Form Total	0.2	0.0	0.2

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	37.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

There is no descriptive or constituent information available for this waste, which was generated at Bettis Atomic Power Laboratory.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **IN-W360.912**

Appendix C

TRU Waste Inventory Profile Report

Site	Idaho National Laboratory	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S9000	**Handling**	CH
Source Cat.	Source Information Not Compiled	**Defense Determination**	Defense-Related	**Inventory Date**	12/31/2006		
Stream Name	MISCELLANEOUS SOURCES:Cert-repack			**Activity Concentrations Decayed to CY**	1989		

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.2	0.0	0.2
Current Form Total	0.2	0.0	0.2

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.2	0.0	0.2
Final Form Total	0.2	0.0	0.2

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	37.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

There is no descriptive or constituent information available for this waste, which was generated at Bettis Atomic Power Laboratory.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **LA-LA238HOR**

Appendix C

TRU Waste Inventory Profile Report

Site	Los Alamos National Laboratory	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3120	**Handling**	CH
Source Cat.	Facility/Equipment Operation and Maintenance Waste	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	Pu-238 Homogeneous, Hazardous			**Activity Concentrations Decayed to CY**			2006

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.8	7.9	8.7
Current Form Total	0.8	7.9	8.7

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.8	7.9	8.7
Final Form Total	0.8	7.9	8.7

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.03
Cements	0.00
Inorganic Matrix	4.77
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	37.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	8.88E-02
Pu-238	2.18E+02
Pu-239	1.31E-01
Pu-240	6.67E-02
Pu-241	4.89E+00
Pu-242	5.36E-05

Haz. Waste No(s).

D005, D006, D007, D008, D009, D010, D011

TRUCON Code(s)

111/211

Waste Stream Description

Pu-238 Homogeneous, Hazardous

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **LA-TA-03-17**

Appendix C

TRU Waste Inventory Profile Report

Site	Los Alamos National Laboratory	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5400	**Handling**	CH
Source Cat.	Facility/Equipment Operation and Maintenance Waste	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	Hepa Filters			**Activity Concentrations Decayed to CY**			1972

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	1.0	0.0	1.0
Box - Crate	19.2	0.0	19.2
Current Form Total	20.2	0.0	20.2

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	1.0	0.0	1.0
SWB Dir Ld w/ Liner	20.8	0.0	20.8
Final Form Total	21.8	0.0	21.8

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	90.43
Aluminum-based Metals/Alloys	0.00
Other Metals	30.09
Other Inorganic Materials	145.73
Cellulosics	116.97
Rubber	11.83
Plastics	344.25
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	152.42
Packaging Material, Plastic	2.91
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	0.00E+00
Pu-238	0.00E+00
Pu-239	0.00E+00
U-235	0.00E+00
U-238	0.00E+00

No Hazardous Waste Numbers Provided

TRUCON Code(s)

125/225

Waste Stream Description

Hepa Filters

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **LA-TA-55-52**

Appendix C

TRU Waste Inventory Profile Report

Site	Los Alamos National Laboratory	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3200	**Handling**	CH
Source Cat.	Remediation/D&D Waste	**Defense Determination**	Likely Defense-Related			**Inventory Date**	12/31/2006
Stream Name	Oil on vermiculite, corrosive waste not for disposal at WIPP (mixed).					**Activity Concentrations Decayed to CY**	1998

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.6	0.0	0.6
Current Form Total	0.6	0.0	0.6

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.6	0.0	0.6
Final Form Total	0.6	0.0	0.6

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.18
Aluminum-based Metals/Alloys	0.18
Other Metals	0.18
Other Inorganic Materials	0.18
Cellulosics	0.18
Rubber	0.18
Plastics	0.18
Cements	0.00
Inorganic Matrix	165.82
Organic Matrix	828.39
Soils/gravel	110.61
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	37.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	1.02E+00
Pu-238	5.98E+01
Pu-239	7.18E+00
Pu-240	2.14E+00
Pu-241	3.80E+01
Pu-242	2.52E-04
U-235	4.42E-05
U-238	3.69E-06

Haz. Waste No(s).

D019

TRUCON Code(s)

112/212

Waste Stream Description

Solidified Organic Oil on vermiculite, corrosive waste not for disposal at WIPP (mixed).

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **LB-T002**

Appendix C

TRU Waste Inventory Profile Report

Site	Lawrence Berkeley Laboratory	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5400	**Handling**	CH
Source Cat.	R&D/R&D Laboratory Waste	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	LBL - Waste					**Activity Concentrations Decayed to CY**	1992

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
12.2-gal Drum	0.2	0.0	0.2
2.5-gal Drum	0.0	0.0	0.0
30-gal Drum	0.1	0.0	0.1
5-gal Drum	0.3	0.0	0.3
Current Form Total	0.6	0.0	0.6

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.4	0.0	0.4
Final Form Total	0.4	0.0	0.4

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	1.38
Aluminum-based Metals/Alloys	0.00
Other Metals	5.89
Other Inorganic Materials	23.40
Cellulosics	7.90
Rubber	0.03
Plastics	6.60
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	37.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	1.70E-01
Am-243	2.60E-04
Cm-244	1.70E-03
Cs-137	5.00E-09
Np-237	4.00E-03
Pu-238	7.10E-03
Pu-239	5.50E-02
Pu-240	9.00E-05
Pu-241	3.60E-02
U-235	4.10E-07

Haz. Waste No(s).

D005, D006, D007, D008, D009, D010, D011, D018, D022, D028, D035, D039, F003, F005

TRUCON Code(s)

125/225

Waste Stream Description

Heterogeneous transuranic mixed waste

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **LL-T001**

Appendix C

TRU Waste Inventory Profile Report

Site	Lawrence Livermore National Laboratory	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5400	**Handling**	CH
Source Cat.	R&D/R&D Laboratory Waste	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	R&D Glovebox Waste (Form 1)					**Activity Concentrations Decayed to CY**	N/A

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	0.0	229.2	229.2
55-gal POC - 12" w/o Liner	0.0	4.0	4.0
SWB Dir Ld w/o Liner	0.0	35.9	35.9
Current Form Total	0.0	269.1	269.1

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	0.0	229.2	229.2
55-gal POC - 12" w/o Liner	0.0	4.0	4.0
SWB Dir Ld w/o Liner	0.0	35.9	35.9
Final Form Total	0.0	269.1	269.1

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	139.65
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	2.02
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

Specific waste items in this waste stream may include paper cartons, cardboard, Kimwipes, cotton swabs, tissues, cheesecloth, grinding paper, plastic (e.g., bags, sheet, tape, containers, pipette tips, and glovebox windows), Neoprene and Hypalon gloves (non-leaded), aluminum foil, tin cans, hardware (e.g., nuts, bolts, washers, fittings, gauges, fixtures, thermocouples), metal tools (e.g., screwdrivers and pliers), metal parts, equipment (without circuit boards), copper (wire, tubing, flanges, rods, and molds), sealed sources, aerosol cans, glass (e.g., beakers, vials, and ion exchange columns with resin), graphite molds , crucibles (magnesium oxide, tantalum), epoxy resin chunks, and small quantities of pyrochemical salts and solidified aqueous or organic liquids (individual drums contain less than 50 percent, by volume, solidified liquids, and/or salts).

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **LL-T003**

Appendix C

TRU Waste Inventory Profile Report

Site	Lawrence Livermore National Laboratory	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5100	**Handling**	CH
Source Cat.	R&D/R&D Laboratory Waste	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	Combined metal scrap & incidental combust (Form 3)					**Activity Concentrations Decayed to CY**	N/A

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
SLB2 (5' x 5' x 8) Dir Ld	0.0	283.0	283.0
SWB Dir Ld w/o Liner	0.0	192.8	192.8
Current Form Total	0.0	475.8	475.8

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
SLB2 (5' x 5' x 8) Dir Ld	0.0	283.0	283.0
SWB Dir Ld w/o Liner	0.0	192.8	192.8
Final Form Total	0.0	475.8	475.8

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	190.85
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

This waste steram is composed primarily of objects which, because of physical size, cannot be packaged in a 55-gallon drum. Typical objects include decommissioned gloveboxes, hoods, and large pieces of equipment (lathes, mills, etc.). The void space in boxes may be filled with other TRU waste items or with foam in plastic bags.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **MC-W002**

Appendix C

TRU Waste Inventory Profile Report

Site	U.S. Army Materiel Command	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5110	**Handling**	CH
Source Cat.	Discarding Excess/Expired Materials	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	USAMC TRU Waste					**Activity Concentrations Decayed to CY**	1995

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
30-gal Drum	0.1	0.0	0.1
Current Form Total	0.1	0.0	0.1

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal S100 POC - 6" w/ Liner	0.2	0.0	0.2
Final Form Total	0.2	0.0	0.2

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	190.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	320.70
Packaging Material, Plastic	713.00
Packaging Material, Cellulosics	69.70
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	2.40E+00

Haz. Waste No(s).

D003

TRUCON Code(s)

120/220

Waste Stream Description

Army sealed sources

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **PA-A015**

Appendix C

TRU Waste Inventory Profile Report

Site	Paducah Gaseous Diffusion Plant	**Final Waste Form**	Solidified Organics	**Waste Matrix Code**	S3129	**Handling**	CH
Source Cat.	Other/Multiple Sources	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	Transuranic - Solid			**Activity Concentrations Decayed to CY**			1989

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
110-gal Drum w/ 1 - 85-gal Drum w/ 1 55-gal Dru	0.8	0.0	0.8
85-gal Drum w/ 1 - 55-gal Drum w/ Liner	1.9	0.0	1.9
Current Form Total	2.8	0.0	2.8

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	2.00E-02
Np-237	1.80E-02
Pu-238	1.60E-03
Pu-239	1.90E-01
Th-230	4.90E-03

Haz. Waste No(s).

D007

TRUCON Code(s)

112/212

Waste Stream Description

Transuranic Waste Class C, andTransuranic Waste Basic, class C filter/White Powder

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **PA-W014**

Appendix C

TRU Waste Inventory Profile Report

Site	Paducah Gaseous Diffusion Plant	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	L1220	**Handling**	CH
Source Cat.	Other/Multiple Sources	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	Transuranic Waste Liquid/Solids			**Activity Concentrations Decayed to CY**			1990

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
30-gal Drum	0.3	0.0	0.3
55-gal Drum Dir Ld w/ Liner	0.2	0.0	0.2
5-gal Drum	0.0	0.0	0.0
85-gal Drum w/ 1 - 55-gal Drum w/ Liner	2.9	0.0	2.9
Current Form Total	3.5	0.0	3.5

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	5.70E-02
Np-237	7.10E-01
Pu-239	5.50E-02

No Hazardous Waste Numbers Provided

TRUCON Code(s)

114/214

Waste Stream Description

Transuranic Waste Basic class C

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **RL105-09A**

Appendix C

TRU Waste Inventory Profile Report

Site	Hanford (Richland) Site	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3100	**Handling**	RH
Source Cat.	Facility/Equipment Operation and Maintenance Waste	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	105KE knockout pots TRU RH mixed solidified inorganics			**Activity Concentrations Decayed to CY**			2001

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
Uncontained	0.4	0.0	0.4
Current Form Total	0.4	0.0	0.4

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
RH Can w/ Remov Lid w/ 3 - 55-gal w/ Liner	0.9	0.0	0.9
Final Form Total	0.9	0.0	0.9

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	212.02
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	7.91
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	778.27
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	652.20
Packaging Material, Plastic	26.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	1.67E+03
Cs-137	6.56E+04
Pu-238	5.04E+02
Pu-239	9.97E+02
Pu-240	6.48E+02

No Hazardous Waste Numbers Provided

TRUCON Code(s)

311

Waste Stream Description

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

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **RL618-01**

Appendix C

TRU Waste Inventory Profile Report

Site	Hanford (Richland) Site	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5000	**Handling**	CH
Source Cat.	Facility/Equipment Operation and Maintenance Waste	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	618 - 10&11 Burial Grounds TRU Mixed Debris			**Activity Concentrations Decayed to CY**			2006

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
Uncontained	837.5	0.0	837.5
Uncontained	8341.0	0.0	8341.0
Current Form Total	9178.5	0.0	9178.5

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	829.5	0.0	829.5
SWB Dir Ld w/ Liner	8297.1	0.0	8297.1
Final Form Total	9126.6	0.0	9126.6

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	13.39
Aluminum-based Metals/Alloys	0.00
Other Metals	24.10
Other Inorganic Materials	23.22
Cellulosics	1.79
Rubber	3.57
Plastics	3.57
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	8.93
Soils/gravel	8.93
Vitrified	0.00
Packaging Material, Steel	151.44
Packaging Material, Plastic	4.45
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	4.98E-01
Cs-137	3.09E+02
Pu-238	2.73E-03
Pu-239	1.09E+01
Pu-240	1.04E+00
Pu-241	8.39E-01
Pu-242	6.26E-06
Sr-90	2.81E+02

No Hazardous Waste Numbers Provided

TRUCON Code(s)

125/225

Waste Stream Description

Retrieved containerized debris waste from Burial Grounds 618 - 10 and 11

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **RL618-07**

Appendix C

TRU Waste Inventory Profile Report

Site	Hanford (Richland) Site	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5000	**Handling**	RH
Source Cat.	Facility/Equipment Operation and Maintenance Waste	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	618 - 10&11 Burial Grounds TRU RH Non-mixed Debris			**Activity Concentrations Decayed to CY**			2006

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
Uncontained	8.3	0.0	8.3
Uncontained	83.2	0.0	83.2
Current Form Total	91.5	0.0	91.5

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
RH Can w/ Remov Lid w/ 3 - 55-gal w/ Liner	130.8	0.0	130.8
Final Form Total	130.8	0.0	130.8

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	184.11
Aluminum-based Metals/Alloys	0.00
Other Metals	332.00
Other Inorganic Materials	356.00
Cellulosics	24.55
Rubber	49.10
Plastics	49.10
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	122.74
Soils/gravel	122.74
Vitrified	0.00
Packaging Material, Steel	652.20
Packaging Material, Plastic	26.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	6.85E+00
Cs-137	4.25E+03
Pu-238	3.76E-02
Pu-239	1.50E+02
Pu-240	1.42E+01
Pu-241	1.15E+01
Pu-242	8.60E-05
Sr-90	3.87E+03

No Hazardous Waste Numbers Provided

TRUCON Code(s)

325

Waste Stream Description

Retrieved containerized debris waste from Burial Grounds 618 - 10 and 11.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **RLCH2-08**

Appendix C

TRU Waste Inventory Profile Report

Site	Hanford (Richland) Site	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5000	**Handling**	RH
Source Cat.	Facility/Equipment Operation and Maintenance Waste	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	Tank Farms TRU RH Mixed Debris			**Activity Concentrations Decayed to CY**			2001

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
Uncontained	294.0	0.0	294.0
Current Form Total	294.0	0.0	294.0

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
RH Can w/ Remov Lid - Dir Ld	293.7	0.0	293.7
Final Form Total	293.7	0.0	293.7

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	2.99
Aluminum-based Metals/Alloys	0.00
Other Metals	362.87
Other Inorganic Materials	7.16
Cellulosics	0.00
Rubber	44.56
Plastics	12.39
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	560.60
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	8.20E-02
Pu-238	5.30E-02
Pu-239	3.77E-03
Pu-240	2.93E-03
Pu-241	6.26E-03
Pu-242	8.41E-09

No Hazardous Waste Numbers Provided

TRUCON Code(s)

112/212

Waste Stream Description

Equipment removed from waste tanks (instrument trees, pumps, circulators, agitators, heaters, sluicers, steam coils, air lances, cameras). The waste stream ranges from contaminated clothing to process equipment contaminated with RCRA constituents.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **RLRFET-01**

Appendix C

TRU Waste Inventory Profile Report

Site	Hanford (Richland) Site	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5000	**Handling**	CH
Source Cat.	R&D/R&D Laboratory Waste	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	Rocky Flats TRU Mixed Debris			**Activity Concentrations Decayed to CY**			1984

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	202.6	0.0	202.6
Current Form Total	202.6	0.0	202.6

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	245.2	0.0	245.2
Final Form Total	245.2	0.0	245.2

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	552.00
Aluminum-based Metals/Alloys	87.00
Other Metals	0.00
Other Inorganic Materials	43.00
Cellulosics	105.00
Rubber	45.00
Plastics	107.00
Cements	0.00
Inorganic Matrix	15.00
Organic Matrix	0.00
Soils/gravel	18.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	37.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	7.19E+00
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
U-234	1.90E-01
U-235	3.54E-04
U-238	2.12E-02

No Hazardous Waste Numbers Provided

TRUCON Code(s)

125/225

Waste Stream Description

N/A

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **RP-TFC001**

Appendix C

TRU Waste Inventory Profile Report

Site	Hanford (River Protection) Site	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3100	**Handling**	CH
Source Cat.	Materials Production/Recovery Effluents	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	Bismuth Phosphate Process TRU Solids			**Activity Concentrations Decayed to CY**			2004

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
Tank(s)	1200.0	0.0	1200.0
Current Form Total	1200.0	0.0	1200.0

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	438.7	0.0	438.7
Final Form Total	438.7	0.0	438.7

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	1.60
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	7.37E-02
Cs-137	6.11E-01
Np-237	1.22E-05
Pu-238	6.60E-03
Pu-239	5.16E-01
Pu-240	6.23E-02
Pu-241	1.89E-01
Pu-242	3.08E-06
Sr-90	7.98E+00
U-233	1.10E-09
U-234	1.68E-03
U-235	5.42E-05
U-236	1.62E-05
U-238	1.24E-03

Haz. Waste No(s).

D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D022, D028, D029, D030, D033, D034, D035, D036, D038, D039, D040, D041, D043, F001, F002, F003, F004, F005

No TRUCON Codes Provided

Waste Stream Description

Solidified aqueous waste slurry

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **RP-TFC002**

Appendix C

TRU Waste Inventory Profile Report

Site	Hanford (River Protection) Site	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3100	**Handling**	RH
Source Cat.	Materials Production/Recovery Effluents	**Defense Determination**	Defense-Related	**Inventory Date**	12/31/2006		
Stream Name	Bismuth Phosphate Process TRU Solids mixed with Fission Product Waste			**Activity Concentrations Decayed to CY**	2004		

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
Tank(s)	3040.0	0.0	3040.0
Current Form Total	3040.0	0.0	3040.0

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
RH Can w/ Remov Lid - Dir Ld	1918.8	0.0	1918.8
Final Form Total	1918.8	0.0	1918.8

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	1.37
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	560.60
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	1.50E-01
Cs-137	1.05E+02
Np-237	1.31E-04
Pu-238	6.07E-03
Pu-239	3.64E-01
Pu-240	4.17E-02
Pu-241	1.11E-01
Pu-242	9.86E-07
Sr-90	2.46E+02
U-233	6.57E-04
U-234	1.81E-03
U-235	8.00E-05
U-236	2.16E-05
U-238	1.83E-03

Haz. Waste No(s).

D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D022, D028, D029, D030, D033, D034, D035, D036, D038, D039, D040, D041, D043, F001, F002, F003, F004, F005

No TRUCON Codes Provided

Waste Stream Description

Solidified aqueous waste slurry

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **RP-TFC003**

Appendix C

TRU Waste Inventory Profile Report

Site	Hanford (River Protection) Site	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3100	**Handling**	RH
Source Cat.	Materials Production/Recovery Effluents	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	Bismuth Phosphate Process TRU Solids mixed with Fission Product Waste			**Activity Concentrations Decayed to CY**			2004

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
Tank(s)	370.0	0.0	370.0
Current Form Total	370.0	0.0	370.0

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
RH Can w/ Remov Lid - Dir Ld	258.1	0.0	258.1
Final Form Total	258.1	0.0	258.1

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	1.37
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	560.60
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	1.36E-01
Cs-137	2.15E+01
Np-237	1.39E-06
Pu-238	4.87E-03
Pu-239	6.46E-01
Pu-240	6.85E-02
Pu-241	1.94E-01
Pu-242	3.40E-06
Sr-90	1.21E+02
U-233	1.42E-09
U-234	1.80E-03
U-235	7.49E-05
U-236	1.89E-05
U-238	1.69E-03

Haz. Waste No(s).

D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D022, D028, D029, D030, D033, D034, D035, D036, D038, D039, D040, D041, D043, F001, F002, F003, F004, F005

No TRUCON Codes Provided

Waste Stream Description

Solidified aqueous waste slurry

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **RP-W013**

Appendix C

TRU Waste Inventory Profile Report

Site	Hanford (River Protection) Site	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3100	**Handling**	RH
Source Cat.	Materials Production/Recovery Effluents	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	PFP TRU Solids			**Activity Concentrations Decayed to CY**			2004

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
Tank(s)	270.0	0.0	270.0
Current Form Total	270.0	0.0	270.0

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
RH Can w/ Remov Lid - Dir Ld	410.3	0.0	410.3
Final Form Total	410.3	0.0	410.3

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	1.37
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	560.60
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	6.05E+01
Cs-137	1.95E+02
Np-237	2.21E-03
Pu-238	6.58E-01
Pu-239	1.40E+01
Pu-240	3.23E+00
Pu-241	3.25E+01
Pu-242	2.58E-04
Sr-90	4.37E+02
U-233	5.17E-03
U-234	2.62E-03
U-235	1.09E-04
U-236	6.33E-05
U-238	2.44E-03

Haz. Waste No(s).

D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D022, D028, D029, D030, D033, D034, D035, D036, D038, D039, D040, D041, D043, F001, F002, F003, F004, F005

No TRUCON Codes Provided

Waste Stream Description

Solidified aqueous waste slurry.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **RP-W016**

Appendix C

TRU Waste Inventory Profile Report

Site	Hanford (River Protection) Site	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3100	**Handling**	RH
Source Cat.	Materials Production/Recovery Effluents	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	PUREX TRU Cladding Removal Solids			**Activity Concentrations Decayed to CY**			2004

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
Tank(s)	2030.0	0.0	2030.0
Current Form Total	2030.0	0.0	2030.0

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
RH Can w/ Remov Lid - Dir Ld	1277.2	0.0	1277.2
Final Form Total	1277.2	0.0	1277.2

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	1.37
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	560.60
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	4.69E-01
Cs-137	5.47E+01
Np-237	1.10E-05
Pu-238	9.11E-02
Pu-239	9.17E-01
Pu-240	2.58E-01
Pu-241	6.62E+00
Pu-242	3.27E-05
Sr-90	3.63E+01
U-233	1.60E-07
U-234	1.28E-02
U-235	4.91E-04
U-236	1.24E-03
U-238	8.82E-03

Haz. Waste No(s).

D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D022, D028, D029, D030, D033, D034, D035, D036, D038, D039, D040, D041, D043, F001, F002, F003, F004, F005

No TRUCON Codes Provided

Waste Stream Description

Solidified aqueous waste slurry

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **RP-W754**

Appendix C

TRU Waste Inventory Profile Report

Site	Hanford (River Protection) Site	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3100	**Handling**	CH
Source Cat.	Materials Production/Recovery Effluents	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	224 Waste			**Activity Concentrations Decayed to CY**			2004

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
Tank(s)	1079.0	0.0	1079.0
Current Form Total	1079.0	0.0	1079.0

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	323.2	0.0	323.2
Final Form Total	323.2	0.0	323.2

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	1.60
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	1.20E-01
Cs-137	1.66E-01
Np-237	1.62E-06
Pu-238	1.11E-02
Pu-239	1.55E+00
Pu-240	1.29E-01
Pu-241	2.16E-01
Pu-242	4.91E-06
Sr-90	3.36E+00
U-233	1.24E-10
U-234	1.79E-04
U-235	7.25E-06
U-236	1.75E-06
U-238	1.64E-04

Haz. Waste No(s).

D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D022, D028, D029, D030, D033, D034, D035, D036, D038, D039, D040, D041, D043, F001, F002, F003, F004, F005

No TRUCON Codes Provided

Waste Stream Description

Solidified aqueous waste slurry.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **RP-W755**

Appendix C

TRU Waste Inventory Profile Report

Site	Hanford (River Protection) Site	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3100	**Handling**	CH
Source Cat.	Materials Production/Recovery Effluents	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	Bismuth Phosphate Process TRU Solids			**Activity Concentrations Decayed to CY**			2004

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
Tank(s)	3090.0	0.0	3090.0
Current Form Total	3090.0	0.0	3090.0

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	793.5	0.0	793.5
Final Form Total	793.5	0.0	793.5

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	1.60
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	1.41E-01
Cs-137	3.32E-01
Np-237	8.04E-05
Pu-238	2.97E-03
Pu-239	5.40E-01
Pu-240	4.38E-02
Pu-241	6.82E-02
Pu-242	5.51E-07
Sr-90	1.20E+01
U-233	3.11E-09
U-234	3.61E-03
U-235	1.60E-04
U-236	2.90E-05
U-238	3.67E-03

Haz. Waste No(s).

D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D022, D028, D029, D030, D033, D034, D035, D036, D038, D039, D040, D041, D043, F001, F002, F003, F004, F005

No TRUCON Codes Provided

Waste Stream Description

Solidified aqueous waste slurry

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **SP-T001**

Appendix C

TRU Waste Inventory Profile Report

Site	Separations Process Research Unit	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3120	**Handling**	CH
Source Cat.	R&D/R&D Laboratory Waste	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	N/A			**Activity Concentrations Decayed to CY**			N/A

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
Tank(s)	50.0	0.0	50.0
Current Form Total	50.0	0.0	50.0

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	49.9	0.0	49.9
Final Form Total	49.9	0.0	49.9

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	0.00E+00
Cs-137	0.00E+00
Pu-239	0.00E+00
Sr-90	0.00E+00

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

Separations Process Research Unit.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **SR-T001-773A-CLAS**

Appendix C

TRU Waste Inventory Profile Report

Site	Savannah River Site	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5000	**Handling**	CH
Source Cat.	Other/Multiple Sources	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	CH TRU - Waste from 773A					**Activity Concentrations Decayed to CY**	1990

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.4	0.0	0.4
Box - Steel	28.2	0.0	28.2
SWB Dir Ld w/ Liner	5.7	0.0	5.7
Current Form Total	34.3	0.0	34.3

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.4	0.0	0.4
SLB2 (5' x 5' x 8) Dir Ld	118.9	0.0	118.9
SWB Dir Ld w/o Liner	5.7	0.0	5.7
Final Form Total	124.9	0.0	124.9

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	129.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	32.10
Cellulosics	26.70
Rubber	0.00
Plastics	5.30
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	213.17
Packaging Material, Plastic	0.12
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

Haz. Waste No(s).

D004, D005, D006, D007, D008, D009, D010, D011, D019, D022, D027, D028, D029, D043, F002, F003, F004, F005

TRUCON Code(s)

125/225

Waste Stream Description

This waste stream is defense related, contact handled TRU waste and is composed of metal equipment and debris

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **SR-T001-WSB-1**

Appendix C

TRU Waste Inventory Profile Report

Site	Savannah River Site	**Final Waste Form**	Unknown	**Waste Matrix Code**	N/A	**Handling**	CH
Source Cat.	Source Unknown	**Defense Determination**	Defense-Related	**Inventory Date**	12/31/2006		
Stream Name	UNKNOWN			**Activity Concentrations Decayed to CY**	2015		

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
SWB Dir Ld w/ Liner	0.0	4910.2	4910.2
Current Form Total	0.0	4910.2	4910.2

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
SWB Dir Ld w/ Liner	0.0	4910.2	4910.2
Final Form Total	0.0	4910.2	4910.2

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	2300.00
Inorganic Matrix	720.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	153.50
Packaging Material, Plastic	1.20
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	2.99E+02
Pu-238	6.77E-03
Pu-239	4.44E-02
Pu-240	1.69E-02
Pu-241	8.17E+00
U-234	1.32E-03
U-235	4.25E-05
U-236	6.83E-07
U-238	3.84E-07

Haz. Waste No(s).

D008, D009

No TRUCON Codes Provided

Waste Stream Description

This waste stream is defense related, contact handled TRU and is a neutralized aqueous stream solidified in an inorganic matrix (cement).

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **SR-T001-WSB-3**

Appendix C

TRU Waste Inventory Profile Report

Site	Savannah River Site	**Final Waste Form**	Unknown	**Waste Matrix Code**	N/A	**Handling**	CH
Source Cat.	Source Unknown	**Defense Determination**	Defense-Related	**Inventory Date**	12/31/2006		
Stream Name	UNKNOWN			**Activity Concentrations Decayed to CY**	2015		

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.0	143.9	143.9
Current Form Total	0.0	143.9	143.9

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	0.0	143.9	143.9
Final Form Total	0.0	143.9	143.9

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	250.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	2.99E+02
Pu-238	6.15E-01
Pu-239	4.04E+00
Pu-240	1.48E+00
Pu-241	7.45E+00
U-234	4.51E-03
U-235	1.45E-04
U-238	1.31E-06

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

This waste stream is defense related, contact handled TRU and is a neutralized aqueous stream in an inorganic sorbent.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **SR-W026-MFFF-1**

Appendix C

TRU Waste Inventory Profile Report

Site	Savannah River Site	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5000	**Handling**	CH
Source Cat.	Facility/Equipment Operation and Maintenance Waste	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	UNKNOWN			**Activity Concentrations Decayed to CY**			2015

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.0	3504.2	3504.2
Current Form Total	0.0	3504.2	3504.2

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.0	3504.2	3504.2
Final Form Total	0.0	3504.2	3504.2

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	3.13
Aluminum-based Metals/Alloys	0.07
Other Metals	0.04
Other Inorganic Materials	1.24
Cellulosics	2.20
Rubber	0.26
Plastics	15.30
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	37.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Pu-238	4.11E-01
Pu-239	2.69E+00
Pu-240	9.86E-01
Pu-241	4.95E+00
U-234	3.00E-06
U-235	9.66E-07
U-236	1.58E-08
U-238	8.75E-09

Haz. Waste No(s).

D008

TRUCON Code(s)

125/225

Waste Stream Description

This waste stream is defense related, contact handled TRU and is composed of heterogeneous debris which can include HEPA filters, plastic, protective clothing, metal, gloves, lead lined gloves and sludges.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **SR-W026-PDCF-1**

Appendix C

TRU Waste Inventory Profile Report

Site	Savannah River Site	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	N/A	**Handling**	CH
Source Cat.	Facility/Equipment Operation and Maintenance Waste	**Defense Determination**	Defense-Related	**Inventory Date**	12/31/2006		
Stream Name	UNKNOWN			**Activity Concentrations Decayed to CY**	2017		

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.0	2146.6	2146.6
Current Form Total	0.0	2146.6	2146.6

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.0	2146.6	2146.6
Final Form Total	0.0	2146.6	2146.6

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	3.13
Aluminum-based Metals/Alloys	0.07
Other Metals	0.04
Other Inorganic Materials	1.24
Cellulosics	2.20
Rubber	0.26
Plastics	15.30
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	37.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

Haz. Waste No(s).

D008

TRUCON Code(s)

125/225

Waste Stream Description

This waste stream is defense related, contact handled TRU and is composed of heterogeneous debris which can include HEPA filters, plastic, protective clothing, metal ingots including beryllium, gloves, lead lined gloves and sludges.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **SR-W026-WSB-2**

Appendix C

TRU Waste Inventory Profile Report

Site	Savannah River Site	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5000	**Handling**	CH
Source Cat.	Facility/Equipment Operation and Maintenance Waste	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	UNKNOWN			**Activity Concentrations Decayed to CY**			2015

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.0	625.9	625.9
Current Form Total	0.0	625.9	625.9

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	0.0	625.9	625.9
Final Form Total	0.0	625.9	625.9

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	3.13
Aluminum-based Metals/Alloys	0.07
Other Metals	0.04
Other Inorganic Materials	1.24
Cellulosics	2.20
Rubber	0.26
Plastics	15.30
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	37.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	1.32E+02
Pu-238	9.66E-06
Pu-239	1.98E-01
Pu-240	9.86E-02
Pu-241	1.98E-01
Pu-242	7.54E-06
U-234	3.00E-04
U-235	9.66E-06
U-236	1.56E-07
U-238	9.08E-08

Haz. Waste No(s).

D008

TRUCON Code(s)

125/225

Waste Stream Description

This waste stream is defense related, contact handled TRU and is composed of heterogeneous debris with can include HEPA filters, plastic, protective clothing, metal, gloves, lead lined gloves, and sludges.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **SR-W027-221H-HET-B**

Appendix C

TRU Waste Inventory Profile Report

Site	Savannah River Site	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5000	**Handling**	CH
Source Cat.	Discarding Excess/Expired Materials	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	Heterogeneous debris from 221H					**Activity Concentrations Decayed to CY**	2004

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	14.8	0.0	14.8
Current Form Total	14.8	0.0	14.8

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	14.8	0.0	14.8
Final Form Total	14.8	0.0	14.8

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	37.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

No Hazardous Waste Numbers Provided

TRUCON Code(s)

125/225

Waste Stream Description

This waste stream has been seperated from it's parent waste stream SR-W027-221H-HET.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **SR-W027-HBL-Box-B**

Appendix C

TRU Waste Inventory Profile Report

Site	Savannah River Site	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5000	**Handling**	CH
Source Cat.	Discarding Excess/Expired Materials	**Defense Determination**	Defense-Related	**Inventory Date**	12/31/2006		
Stream Name	CH mixed TRU from 221H			**Activity Concentrations Decayed to CY**	1990		

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
Box - SRS Black Box	128.1	0.0	128.1
Current Form Total	128.1	0.0	128.1

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
SLB2 (5' x 5' x 8) Dir Ld	101.9	0.0	101.9
Final Form Total	101.9	0.0	101.9

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	216.30
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

This waste stream has been seperated from it's parent waste stream SR-W027-HBL-Box.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **SR-W027-SRSG-SOIL**

Appendix C

TRU Waste Inventory Profile Report

Site	Savannah River Site	**Final Waste Form**	Soils	**Waste Matrix Code**	S4000	**Handling**	CH
Source Cat.	Source Information Not Compiled	**Defense Determination**	Defense-Related			**Inventory Date**	12/31/2006
Stream Name	CH Mixed TRU Soil / Gravel (S4000)					**Activity Concentrations Decayed to CY**	1977

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	3.3	0.0	3.3
Current Form Total	3.3	0.0	3.3

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/ Liner	3.3	0.0	3.3
Final Form Total	3.3	0.0	3.3

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	2162.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	37.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m^3)
Am-241	0.00E+00
Am-243	0.00E+00
Cm-244	0.00E+00
Cs-137	0.00E+00
Pu-238	0.00E+00
Pu-239	0.00E+00
Pu-240	0.00E+00
Pu-241	0.00E+00
Pu-242	0.00E+00
Sr-90	0.00E+00

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

Mixed TRU Soil and Gravel from spill clean up.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **VN-CHT001**

Appendix C

TRU Waste Inventory Profile Report

Site	GE - Vallecitos Nuclear Center	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5400	**Handling**	CH
Source Cat.	Remediation/D&D Waste	**Defense Determination**	Pending Determination			**Inventory Date**	12/31/2006
Stream Name	Heterogeneous debris					**Activity Concentrations Decayed to CY**	N/A

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
Hot Cell	20.2	0.0	20.2
Current Form Total	20.2	0.0	20.2

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	20.2	0.0	20.2
Final Form Total	20.2	0.0	20.2

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

This waste will be generated from refurbishment of an alpha high-level hot cell.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **VN-RHT001**

Appendix C

TRU Waste Inventory Profile Report

Site	GE - Vallecitos Nuclear Center	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5400	**Handling**	RH
Source Cat.	Remediation/D&D Waste	**Defense Determination**	Pending Determination			**Inventory Date**	12/31/2006
Stream Name	Heterogeneous debris					**Activity Concentrations Decayed to CY**	N/A

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
Hot Cell	12.5	0.0	12.5
Current Form Total	12.5	0.0	12.5

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
RH Can w/ Remov Lid - Dir Ld	12.5	0.0	12.5
Final Form Total	12.5	0.0	12.5

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	560.60
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

The waste will be generated from the refurbishment of an alpha high-level hot cell.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **WV-M005**

Appendix C

TRU Waste Inventory Profile Report

Site	West Valley Demonstration Project	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410	**Handling**	CH
Source Cat.	Facility/Equipment Operation and Maintenance Waste	**Defense Determination**	Pending Determination			**Inventory Date**	12/31/2006
Stream Name	TRU Filters					**Activity Concentrations Decayed to CY**	N/A

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
Box - Misc	2.9	0.0	2.9
Box - Misc	4.1	0.0	4.1
Box - Misc	8.3	0.0	8.3
Box - Misc	10.2	0.0	10.2
Box - Misc	12.7	0.0	12.7
Box - Misc	14.7	0.0	14.7
Box - Misc	19.0	0.0	19.0
Box - Misc	23.8	0.0	23.8
Box - Misc	23.8	0.0	23.8
Current Form Total	119.4	0.0	119.4

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	119.8	0.0	119.8
Final Form Total	119.8	0.0	119.8

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	1.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

This waste stream consists of filters generated from normal site operations. The specific contents include pre-filters, High Efficiency Particulate Air (HEPA) filters, and roughing filters.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **WV-M007**

Appendix C

TRU Waste Inventory Profile Report

Site	West Valley Demonstration Project	**Final Waste Form**	Unknown	**Waste Matrix Code**	U9999	**Handling**	CH
Source Cat.	Facility/Equipment Operation and Maintenance Waste	**Defense Determination**	Pending Determination	**Inventory Date**	12/31/2006		
Stream Name	TRU General Waste			**Activity Concentrations Decayed to CY**	N/A		

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	10.8	0.0	10.8
Current Form Total	10.8	0.0	10.8

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	10.8	0.0	10.8
Final Form Total	10.8	0.0	10.8

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	1.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

Haz. Waste No(s).

D007, D008

No TRUCON Codes Provided

Waste Stream Description

This waste stream consists of uncharacterized (i.e., requires hazardous characterization) general site waste generated from normal site operations. The specific contents of this waste stream are unknown.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **WV-M008**

Appendix C

TRU Waste Inventory Profile Report

Site	West Valley Demonstration Project	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3150	**Handling**	CH
Source Cat.	Facility/Equipment Operation and Maintenance Waste	**Defense Determination**	Pending Determination			**Inventory Date**	12/31/2006
Stream Name	TRU Concrete					**Activity Concentrations Decayed to CY**	N/A

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	0.2	0.0	0.2
Current Form Total	0.2	0.0	0.2

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	0.2	0.0	0.2
Final Form Total	0.2	0.0	0.2

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	1.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

This waste stream consists of samples solidified with cement generated from the on-site A&PC laboratory.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **WV-M010**

Appendix C

TRU Waste Inventory Profile Report

Site	West Valley Demonstration Project	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3190	**Handling**	CH
Source Cat.	Facility/Equipment Operation and Maintenance Waste	**Defense Determination**	Pending Determination			**Inventory Date**	12/31/2006
Stream Name	TRU Spent Absorbents					**Activity Concentrations Decayed to CY**	N/A

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	0.8	0.0	0.8
Current Form Total	0.8	0.0	0.8

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	0.8	0.0	0.8
Final Form Total	0.8	0.0	0.8

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	1.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

This waste stream consists of spent absorbents generated from site operations. The media absorbed is not known for this waste stream.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **WV-M013**

Appendix C

TRU Waste Inventory Profile Report

Site	West Valley Demonstration Project	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3131	**Handling**	CH
Source Cat.	Facility/Equipment Operation and Maintenance Waste	**Defense Determination**	Pending Determination			**Inventory Date**	12/31/2006
Stream Name	Sweeping Compound					**Activity Concentrations Decayed to CY**	N/A

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	1.9	0.0	1.9
Current Form Total	1.9	0.0	1.9

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	1.9	0.0	1.9
Final Form Total	1.9	0.0	1.9

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	1.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

Haz. Waste No(s).
D007, D008

No TRUCON Codes Provided

Waste Stream Description

This waste stream consists of sweeping compound generated from normal site operations. The specific contents include grid and floor debris. This waste stream is considered as hazardous/radioactively contaminated based on the assumption that the waste contains lead and chromium contaminated paint chips.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***
NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **WV-M015**

Appendix C

TRU Waste Inventory Profile Report

Site	West Valley Demonstration Project	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5420	**Handling**	CH
Source Cat.	Remediation/D&D Waste	**Defense Determination**	Pending Determination			**Inventory Date**	12/31/2006
Stream Name	Chemical Process Cell General Waste					**Activity Concentrations Decayed to CY**	N/A

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	0.6	0.0	0.6
Box - Misc	2.0	0.0	2.0
Box - Misc	10.5	0.0	10.5
Current Form Total	13.1	0.0	13.1

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	13.1	0.0	13.1
Final Form Total	13.1	0.0	13.1

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	1.00
Other Inorganic Materials	1.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

This waste stream was generated as a result of the decommissioning and decontamination of the Chemical Process Cell (CPC). The CPC was previously used to reprocess spent fuel rods. The specific contents of this container include vacuum lines, air lines, floor debris, pipe, & hoses.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **WV-T001**

Appendix C

TRU Waste Inventory Profile Report

Site	West Valley Demonstration Project	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5490	**Handling**	CH
Source Cat.	Remediation/D&D Waste	**Defense Determination**	Pending Determination			**Inventory Date**	12/31/2006
Stream Name	Fissile Material - Solids					**Activity Concentrations Decayed to CY**	N/A

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	8.1	0.0	8.1
Box - Misc	15.3	0.0	15.3
Box - Misc	15.8	0.0	15.8
Current Form Total	39.3	0.0	39.3

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	31.2	0.0	31.2
Final Form Total	31.2	0.0	31.2

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	1.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

This waste stream consists of solid fissile material generated from previous decontamination and decommissioning activities. The specific contents include CUNO filters, vacuum cans, glove box debris, piping, hoses, pumps, etc

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **WV-T004**

Appendix C

TRU Waste Inventory Profile Report

Site	West Valley Demonstration Project	**Final Waste Form**	Unknown	**Waste Matrix Code**	U9999	**Handling**	CH
Source Cat.	Remediation/D&D Waste	**Defense Determination**	Pending Determination			**Inventory Date**	12/31/2006
Stream Name	Fissile Material - Other					**Activity Concentrations Decayed to CY**	N/A

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	0.6	0.0	0.6
Current Form Total	0.6	0.0	0.6

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	0.6	0.0	0.6
Final Form Total	0.6	0.0	0.6

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	1.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

This waste stream consists of liquid waste with associated fissile material generated from previous decontamination and decommissioning activities. The specific contents are unknown.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **WV-T006**

Appendix C

TRU Waste Inventory Profile Report

Site	West Valley Demonstration Project	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5490	**Handling**	CH
Source Cat.	Facility/Equipment Operation and Maintenance Waste	**Defense Determination**	Pending Determination			**Inventory Date**	12/31/2006
Stream Name	TRU General Waste			**Activity Concentrations Decayed to CY**			N/A

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	10.4	10.2	20.6
Current Form Total	10.4	10.2	20.6

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	10.4	10.2	20.6
Final Form Total	10.4	10.2	20.6

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	1.00
Other Inorganic Materials	1.00
Cellulosics	0.00
Rubber	1.00
Plastics	1.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

This waste stream consists of radiologically and hazardous general site waste generated from normal site operations. The specific contents include but are not limited to anticontamination clothing, hoses, glove bags, and tools.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **WV-T009**

Appendix C

TRU Waste Inventory Profile Report

Site	West Valley Demonstration Project	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5420	**Handling**	CH
Source Cat.	Analytical Laboratory Waste	**Defense Determination**	Pending Determination			**Inventory Date**	12/31/2006
Stream Name	TRU General Laboratory Waste					**Activity Concentrations Decayed to CY**	N/A

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	10.0	21.2	31.2
Current Form Total	10.0	21.2	31.2

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	10.0	21.2	31.2
Final Form Total	10.0	21.2	31.2

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	1.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

This waste stream consists of general laboratory waste generated on-site. The specific contents include anticontamination clothing, bags, wipes, samples, etc.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **WV-T011**

Appendix C

TRU Waste Inventory Profile Report

Site	West Valley Demonstration Project	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5111	**Handling**	CH
Source Cat.	Remediation/D&D Waste	**Defense Determination**	Pending Determination			**Inventory Date**	12/31/2006
Stream Name	TRU Glove Boxes					**Activity Concentrations Decayed to CY**	N/A

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	0.2	0.0	0.2
Box - Misc	33.9	0.0	33.9
Current Form Total	34.1	0.0	34.1

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	33.9	0.0	33.9
Final Form Total	33.9	0.0	33.9

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	1.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

This waste stream consists of radiologically and hazardous glove boxes generated from decommissioning and decontamination activities. The specific contents include glove boxes and tools.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **WV-T014**

Appendix C

TRU Waste Inventory Profile Report

Site	West Valley Demonstration Project	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5111	**Handling**	CH
Source Cat.	Remediation/D&D Waste	**Defense Determination**	Pending Determination			**Inventory Date**	12/31/2006
Stream Name	Chemical Process Cell Vessels					**Activity Concentrations Decayed to CY**	N/A

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
Box - Misc	270.0	0.0	270.0
Current Form Total	270.0	0.0	270.0

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	270.0	0.0	270.0
Final Form Total	270.0	0.0	270.0

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	1.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

This waste stream was generated as a result of the decommissioning and decontamination of the Chemical Process Cell. The specific contents of these containers include evaporators, dissolvers, tanks, condensers, etc. These vessels were previously used to reprocess spent fuel rods.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **WV-T016**

Appendix C

TRU Waste Inventory Profile Report

Site	West Valley Demonstration Project	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5111	**Handling**	CH
Source Cat.	Remediation/D&D Waste	**Defense Determination**	Pending Determination			**Inventory Date**	12/31/2006
Stream Name	Chemical Process Cell Miscellaneous Equipment					**Activity Concentrations Decayed to CY**	N/A

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
Box - Misc	146.8	0.0	146.8
Current Form Total	146.8	0.0	146.8

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	146.8	0.0	146.8
Final Form Total	146.8	0.0	146.8

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	1.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

This waste stream was generated as a result of the decommissioning and decontamination of the Chemical Process Cell (CPC). The specific contents of these containers include various jumpers and miscellaneous equipment, etc. The CPC was previously used to reprocess spent fuel rods.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **WV-T017**

Appendix C

TRU Waste Inventory Profile Report

Site	West Valley Demonstration Project	**Final Waste Form**	Solidified Inorganics	**Waste Matrix Code**	S3115	**Handling**	CH
Source Cat.	Facility/Equipment Operation and Maintenance Waste	**Defense Determination**	Pending Determination			**Inventory Date**	12/31/2006
Stream Name	Spent Filter Media					**Activity Concentrations Decayed to CY**	N/A

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
Box - Misc	2.3	0.0	2.3
Current Form Total	2.3	0.0	2.3

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	2.3	0.0	2.3
Final Form Total	2.3	0.0	2.3

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	1.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

This waste stream consists of spent filter media generated from filtration of the Fuel Receiving & Storage pool where the remaining spent fuel rods are stored.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **WV-T018a**

Appendix C

TRU Waste Inventory Profile Report

Site	West Valley Demonstration Project	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5400	**Handling**	RH
Source Cat.	Remediation/D&D Waste	**Defense Determination**	Pending Determination			**Inventory Date**	12/31/2006
Stream Name	Head End Cell Debris					**Activity Concentrations Decayed to CY**	N/A

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
Box - Misc	19.5	0.0	19.5
Current Form Total	19.5	0.0	19.5

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
RH Can w/ Remov Lid w/ 3 - 55-gal w/o Liner	28.5	0.0	28.5
Final Form Total	28.5	0.0	28.5

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	1.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	652.20
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

This waste stream consists of debris generated as a result of decommisioning and decontaminating of head end cells. These cells were used to prep the fuel for reprocessing. Waste from the waste tank farm is also included.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **WV-T018b**

Appendix C

TRU Waste Inventory Profile Report

Site	West Valley Demonstration Project	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5400	**Handling**	CH
Source Cat.	Remediation/D&D Waste	**Defense Determination**	Pending Determination			**Inventory Date**	12/31/2006
Stream Name	Head End Cell Debris					**Activity Concentrations Decayed to CY**	N/A

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	5.0	27.5	32.4
Box - Misc	146.9	0.0	146.9
Current Form Total	151.9	27.5	179.3

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	151.8	27.5	179.3
Final Form Total	151.8	27.5	179.3

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	1.00
Other Inorganic Materials	0.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

This waste stream consists of debris generated as a result of decommisioning and decontaminating of head end cells. These cells were used to prep the fuel for reprocessing. Waste from the waste tank farm is also included. This portion of the waste stream is CH.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **WV-T019**

Appendix C

TRU Waste Inventory Profile Report

Site	West Valley Demonstration Project	**Final Waste Form**	Filter	**Waste Matrix Code**	S5410	**Handling**	CH
Source Cat.	Remediation/D&D Waste	**Defense Determination**	Pending Determination			**Inventory Date**	12/31/2006
Stream Name	FRS Pool Filters					**Activity Concentrations Decayed to CY**	N/A

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	0.0	1.9	1.9
Current Form Total	0.0	1.9	1.9

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	0.0	1.9	1.9
Final Form Total	0.0	1.9	1.9

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	1.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

This waste stream consists of cartridge filters stored in sheild boxes

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **WV-T020**

Appendix C

TRU Waste Inventory Profile Report

Site	West Valley Demonstration Project	**Final Waste Form**	Unknown	**Waste Matrix Code**	S5400	**Handling**	CH
Source Cat.	Remediation/D&D Waste	**Defense Determination**	Pending Determination	**Inventory Date**	12/31/2006		
Stream Name	PPC/XC2 PPE and DAW			**Activity Concentrations Decayed to CY**	N/A		

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	0.0	226.7	226.7
Current Form Total	0.0	226.7	226.7

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	0.0	226.7	226.7
Final Form Total	0.0	226.7	226.7

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	1.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

This waste stream consists of PPE, piping, vessels, hoses, and other DAW.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **WV-T021**

Appendix C

TRU Waste Inventory Profile Report

Site	West Valley Demonstration Project	**Final Waste Form**	Heterogeneous	**Waste Matrix Code**	S5000	**Handling**	RH
Source Cat.	Remediation/D&D Waste	**Defense Determination**	Pending Determination			**Inventory Date**	12/31/2006
Stream Name	RHWF Process					**Activity Concentrations Decayed to CY**	N/A

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	0.0	80.7	80.7
Current Form Total	0.0	80.7	80.7

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
RH Can w/ Remov Lid w/ 3 - 55-gal w/o Liner	0.0	115.7	115.7
Final Form Total	0.0	115.7	115.7

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	10.00
Other Inorganic Materials	10.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	652.20
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

This waste consists of misc. metals, filters and plastics.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **WV-W024**

Appendix C

TRU Waste Inventory Profile Report

Site	West Valley Demonstration Project	**Final Waste Form**	Lead/Cadmium Metal Wast	**Waste Matrix Code**	S5112	**Handling**	CH
Source Cat.	Discarding Excess/Expired Materials	**Defense Determination**	Pending Determination			**Inventory Date**	12/31/2006
Stream Name	TRU Lead					**Activity Concentrations Decayed to CY**	N/A

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	1.7	0.0	1.7
Box - Misc	5.1	0.0	5.1
Box - Misc	12.6	0.0	12.6
Current Form Total	19.3	0.0	19.3

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	17.9	0.0	17.9
Final Form Total	17.9	0.0	17.9

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	11340.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

Haz. Waste No(s).
D006, D008

No TRUCON Codes Provided

Waste Stream Description

This waste stream consists of transuranic lead in the following configurations: lead bricks and lead shielding. Note: The size of the waste stream components may be highly variable. In addition to the lead materials listed above, the following wastes are also part of the contents of the containers included in this waste stream: glassware, bags, bottles. oven, ultrasonic chiller, and an old style 8D-2 sample cask. The wastes included in this stream are characterized as mixed because they exhibit the characteristic of toxicity for lead.

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***
NOTE: Actual numerical values have been rounded for presentation purposes.

Waste Stream ID: **WV-Z001**

Appendix C

TRU Waste Inventory Profile Report

Site	West Valley Demonstration Project	**Final Waste Form**	Unknown	**Waste Matrix Code**	U9999	**Handling**	CH
Source Cat.	N/A	**Defense Determination**	Pending Determination	**Inventory Date**	12/31/2006		
Stream Name	West Valley Buried TRU Waste			**Activity Concentrations Decayed to CY**	N/A		

Waste Volume Detail (m^3)

Current Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
Uncontained	1353.0	0.0	1353.0
Current Form Total	1353.0	0.0	1353.0

Final Form Volumes			
Container Type	**Stored**	**Proj.**	**Total**
55-gal Drum Dir Ld w/o Liner	1353.0	0.0	1353.0
Final Form Total	1353.0	0.0	1353.0

Waste Material Parameters

Material Parameter	Average Density (kg/m^3)
Iron-based Metals/Alloys	0.00
Aluminum-based Metals/Alloys	0.00
Other Metals	0.00
Other Inorganic Materials	10.00
Cellulosics	0.00
Rubber	0.00
Plastics	0.00
Cements	0.00
Inorganic Matrix	0.00
Organic Matrix	0.00
Soils/gravel	0.00
Vitrified	0.00
Packaging Material, Steel	130.80
Packaging Material, Plastic	0.00
Packaging Material, Cellulosics	0.00
Packaging Material, Lead	0.00

No Final Form Radionuclides Provided

No Hazardous Waste Numbers Provided

No TRUCON Codes Provided

Waste Stream Description

N/A

Comprehensive Inventory Database ver. ***1.00*** *Data ver.* ***D.6.06***

NOTE: Actual numerical values have been rounded for presentation purposes.