ANNEX J to ATTACHMENT F

WASTE STREAM PROFILES – WIPP

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

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

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

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

REFERENCES

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

TWBIR ID: AE-T001

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

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

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

AE-216

Final Form Radionuclides

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

(Radionuclides continued next page)

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	90.1	66.1	156.2

Final Form Volumes

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

Final Form	Stored	Projected	Total
	90.1	66.1	156.2

TWBIR ID: AE-T001

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

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

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

TWBIR ID: AE-T003

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

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

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

AE-229

Final Form Radionuclides

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

(Radionuclides continued next page)

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	24.1	13.3	37.4

Final Form Volumes

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

Final Form	Stored	Projected	Total
	24.1	13.3	37.4

TWBIR ID: AE-T003

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

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

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

TWBIR ID: AE-T009

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

(Radionuclides continued next page)

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

As-Generated Volumes

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

As-Generated	Stored	5.8	Projected	39.4	Total	45.2

Final Form Volumes

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

Final Form	Stored	15.1	Projected	104.1	Total	119.3

TWBIR ID: AE-T009

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

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

Final Form Radionuclides (Continued)

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

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

Waste Stream Source Description N/A

Current Container Comments N/A

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: AW-N026.82

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
D006, D007, D008

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

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

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: AW-N026.82

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: AW-N027.531

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
D008

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	0.8	4.2	5.0

Final Form Volumes

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

Final Form	Stored	Projected	Total
	5.4	4.4	9.8

TWBIR ID: AW-N027.531

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: AW-T031.1322

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

(Radionuclides continued next page)

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	0.0	0.0	0.0

Final Form Volumes

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

Final Form	Stored	Projected	Total
	0.0	26.7	26.7

TWBIR ID: AW-T031.1322

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

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

Final Form Radionuclides (Continued)

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

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

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

Current Container Comments N/A

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: AW-T033.1325

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

AW125B

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	0.4	25.2	25.6

Final Form Volumes

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

Final Form	Stored	Projected	Total
	0.4	25.2	25.6

TWBIR ID: AW-T033.1325

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: AW-W012.10

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
D005, D006

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

(Radionuclides continued next page)

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	0.0	15.4	15.4

Final Form Volumes

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

Final Form	Stored	Projected	Total
	0.0	20.5	20.5

TWBIR ID: AW-W012.10

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

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

Final Form Radionuclides (Continued)

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

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

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

Current Container Comments N/A

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

Management Comments Remote Handled

Acceptance Comments N/A

TWBIR ID: AW-W012.10

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Comments N/A

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TWBIR ID: AW-W020.13

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
D006, D007, D008

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

(Radionuclides continued next page)

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

As-Generated Volumes

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

As-Generated	Stored	11.8	Projected	2.0	Total	13.8

Final Form Volumes

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

Final Form	Stored	16.0	Projected	2.7	Total	18.7

TWBIR ID: AW-W020.13

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

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

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

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

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

Current Container Comments N/A

EPA Comments The waste is generated from analytical analysis.

Management Comments Alpha Containment

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: AW-W026

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
D006, D007, D008

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	4.7	Projected	0.0	Total	4.7

Final Form Volumes

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

Final Form	Stored	6.2	Projected	0.0	Total	6.2

TWBIR ID: AW-W026

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: AW-W028

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
D006, D007, D008

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

(Radionuclides continued next page)

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

As-Generated Volumes

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

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

Final Form Volumes

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

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

TWBIR ID: AW-W028

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

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

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

TWBIR ID: AW-W046

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
D006

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	0.0	Projected	2.0	Total	2.0

Final Form Volumes

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

Final Form	Stored	0.0	Projected	2.7	Total	2.7

TWBIR ID: AW-W046

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: AW-W047

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	0.0	Projected	2.0	Total	2.0

Final Form Volumes

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

Final Form	Stored	0.0	Projected	2.7	Total	2.7

TWBIR ID: AW-W047

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: AW-W048

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
D006

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	0.0	Projected	3.4	Total	3.4

Final Form Volumes

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

Final Form	Stored	0.0	Projected	4.4	Total	4.4

TWBIR ID: AW-W048

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: AW-W049

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

125B

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	0.0	Projected	8.5	Total	8.5

Final Form Volumes

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

Final Form	Stored	0.0	Projected	8.5	Total	8.5

TWBIR ID: AW-W049

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: BCLCH-MT01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

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

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

BC321A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	5.2	0.0	5.2

Final Form Volumes

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

Final Form	Stored	Projected	Total
	5.2	0.0	5.2

TWBIR ID: BCLCH-MT01

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: BCLRH-MT01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

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

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

BC321A

Final Form Radionuclides

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

(Radionuclides continued next page)

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	0.6	0.0	0.6

Final Form Volumes

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

Final Form	Stored	Projected	Total
	0.9	0.0	0.9

TWBIR ID: BCLRH-MT01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

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

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

Waste Stream Source Description N/A

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

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: BCLRH-T001

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

BC321B

Final Form Radionuclides

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

(Radionuclides continued next page)

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	0.4	0.0	0.4

Final Form Volumes

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

Final Form	Stored	Projected	Total
	0.9	0.0	0.9

TWBIR ID: BCLRH-T001

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

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

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

Waste Stream Source Description N/A

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

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: BCLRH-T002

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

BC321A

Final Form Radionuclides

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

(Radionuclides continued next page)

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	1.2	0.0	1.2

Final Form Volumes

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

Final Form	Stored	Projected	Total
	1.8	0.0	1.8

TWBIR ID: BCLRH-T002

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

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

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

Waste Stream Source Description N/A

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

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: BCLRH-T003

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

BC321A

Final Form Radionuclides

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

(Radionuclides continued next page)

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

As-Generated Volumes

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

As-Generated	Stored	11.0	Projected	0.2	Total	11.2

Final Form Volumes

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

Final Form	Stored	16.0	Projected	0.9	Total	16.9

TWBIR ID: BCLRH-T003

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

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

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

Waste Stream Source Description N/A

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

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: BCLRH-T004

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

BC322A

Final Form Radionuclides

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

(Radionuclides continued next page)

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

As-Generated Volumes

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

As-Generated	Stored	10.0	Projected	0.2	Total	10.2

Final Form Volumes

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

Final Form	Stored	14.2	Projected	0.9	Total	15.1

TWBIR ID: BCLRH-T004

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

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

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

Waste Stream Source Description N/A

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

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: BCLRH-T005

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

BC321A

Final Form Radionuclides

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

(Radionuclides continued next page)

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	0.4	0.0	0.4

Final Form Volumes

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

Final Form	Stored	Projected	Total
	0.9	0.0	0.9

TWBIR ID: BCLRH-T005

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

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

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

Waste Stream Source Description N/A

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

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: BCLRH-T006

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

BC321B

Final Form Radionuclides

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

(Radionuclides continued next page)

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

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

Final Form	Stored	Projected	Total
	0.9	0.0	0.9

TWBIR ID: BCLRH-T006

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

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

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

Waste Stream Source Description N/A

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

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: BCLRH-T007

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

BC321A

Final Form Radionuclides

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

(Radionuclides continued next page)

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

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

Final Form	Stored	Projected	Total
	0.9	0.0	0.9

TWBIR ID: BCLRH-T007

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

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

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

Waste Stream Source Description N/A

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

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: BCLRH-T008

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

BC321A

Final Form Radionuclides

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

(Radionuclides continued next page)

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	0.4	0.0	0.4

Final Form Volumes

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

Final Form	Stored	Projected	Total
	0.9	0.0	0.9

TWBIR ID: BCLRH-T008

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

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

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

Waste Stream Source Description N/A

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

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

Final Form Comments N/A

TWBIR ID: BCLRH-T009

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

BC321A

Final Form Radionuclides

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

(Radionuclides continued next page)

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	1.0	0.0	1.0

Final Form Volumes

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

Final Form	Stored	Projected	Total
	1.8	0.0	1.8

TWBIR ID: BCLRH-T009

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

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

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

Waste Stream Source Description N/A

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

EPA Comments N/A

Management Comments N/A

Acceptance Comments N/A

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

TWBIR ID: BCLRH-T010

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

BC321A

Final Form Radionuclides

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

(Radionuclides continued next page)

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

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

Final Form	Stored	Projected	Total
	0.9	0.0	0.9

TWBIR ID: BCLRH-T010

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

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

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

TWBIR ID: BCLRH-T011

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

BC321A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	2.9	Projected	0.0	Total	2.9

Final Form Volumes

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

Final Form	Stored	4.4	Projected	0.0	Total	4.4

TWBIR ID: BCLRH-T011

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: BT-T001

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

(Radionuclides continued next page)

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

As-Generated Volumes

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

As-Generated	Stored	2.7	Projected	0.0	Total	2.7

Final Form Volumes

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

Final Form	Stored	2.0	Projected	0.0	Total	2.0

TWBIR ID: BT-T001

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

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

Final Form Radionuclides (Continued)

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

Final Form Radionuclides (Continued)

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

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

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

Current Container Comments N/A

EPA Comments No regulated contaminants present in waste stream.

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

Acceptance Comments Data date is 10/7/02

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

TWBIR ID: BT-T002

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

(Radionuclides continued next page)

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	18.9	0.0	18.9

Final Form Volumes

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

Final Form	Stored	Projected	Total
	18.6	0.0	18.6

TWBIR ID: BT-T002

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Final Form Radionuclides (Continued)

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

Final Form Radionuclides (Continued)

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

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

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

Current Container Comments N/A

EPA Comments No regulated contaminants present in waste stream.

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

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

Final Form Comments N/A

TWBIR ID: ET-C1-B55

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
F002

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

ET126

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	0.8	Projected	0.0	Total	0.8

Final Form Volumes

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

Final Form	Stored	0.8	Projected	0.0	Total	0.8

TWBIR ID: ET-C1-B55

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: ET-C1-D139

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
D006

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

ET121

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	0.2	Projected	0.0	Total	0.2

Final Form Volumes

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

Final Form	Stored	0.2	Projected	0.0	Total	0.2

TWBIR ID: ET-C1-D139

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: ET-C2-SEFOR

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

ET121

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	1.2	Projected	0.0	Total	1.2

Final Form Volumes

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

Final Form	Stored	1.2	Projected	0.0	Total	1.2

TWBIR ID: ET-C2-SEFOR

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: ET-R1-DLR

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

ET326

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	1.5	Projected	0.0	Total	1.5

Final Form Volumes

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

Final Form	Stored	4.1	Projected	0.0	Total	4.1

TWBIR ID: ET-R1-DLR

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: ET-R2-D107

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
D008

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

ET325

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	0.4	Projected	0.0	Total	0.4

Final Form Volumes

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

Final Form	Stored	0.9	Projected	0.0	Total	0.9

TWBIR ID: ET-R2-D107

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-AE-AGHC-01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
D008

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

ID 325A - ID325D
ID 322A - ID322D

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	70.8	Projected	0.0	Total	70.8

Final Form Volumes

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

Final Form	Stored	184.2	Projected	0.0	Total	184.2

TWBIR ID: IN-AE-AGHC-01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-AW-161

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	0.9	0.0	0.9

Final Form Volumes

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

Final Form	Stored	Projected	Total
	0.9	0.0	0.9

TWBIR ID: IN-AW-161

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-BN-510

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

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

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

ID121CD

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	46463.3	Projected	0.0	Total	46463.3

Final Form Volumes

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

Final Form	Stored	19874.8	Projected	0.0	Total	19874.8

TWBIR ID: IN-BN-510

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-GEM-01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

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

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	0.0	Projected	97.1	Total	97.1

Final Form Volumes

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

Final Form	Stored	0.0	Projected	97.1	Total	97.1

TWBIR ID: IN-GEM-01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-GEM-02

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

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

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	0.0	Projected	23.1	Total	23.1

Final Form Volumes

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

Final Form	Stored	0.0	Projected	23.1	Total	23.1

TWBIR ID: IN-GEM-02

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-INTEC-SFS-01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
D008

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

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

Final Form	Stored	Projected	Total
	0.9	0.0	0.9

TWBIR ID: IN-INTEC-SFS-01

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-NRF-153

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	3.2	Projected	0.0	Total	3.2

Final Form Volumes

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

Final Form	Stored	8.9	Projected	0.0	Total	8.9

TWBIR ID: IN-NRF-153

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-TRA-150

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
D008

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

NA

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	2.3	Projected	0.0	Total	2.3

Final Form Volumes

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

Final Form	Stored	2.7	Projected	0.0	Total	2.7

TWBIR ID: IN-TRA-150

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-TRA-157

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

NA

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	3.1	0.0	3.1

Final Form Volumes

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

Final Form	Stored	Projected	Total
	3.6	0.0	3.6

TWBIR ID: IN-TRA-157

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W157.144

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

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

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

213

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	330.8	0.0	330.8

Final Form Volumes

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

Final Form	Stored	Projected	Total
	745.6	0.0	745.6

TWBIR ID: IN-W157.144

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W159.1072

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

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

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	0.8	0.0	0.8

Final Form Volumes

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

Final Form	Stored	Projected	Total
	0.0	0.0	0.0

TWBIR ID: IN-W159.1072

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W163.1007

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
F001, F001, F001, F002

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	4.0	0.0	4.0

Final Form Volumes

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

Final Form	Stored	Projected	Total
	11.5	0.0	11.5

TWBIR ID: IN-W163.1007

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W164.153

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

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

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	1.9	0.0	1.9

Final Form Volumes

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

Final Form	Stored	Projected	Total
	4.8	0.0	4.8

TWBIR ID: IN-W164.153

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W167.149

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

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

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

112

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	169.1	Projected	0.0	Total	169.1

Final Form Volumes

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

Final Form	Stored	383.3	Projected	0.0	Total	383.3

TWBIR ID: IN-W167.149

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W174.154

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
D001, D002

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	190.9	Projected	0.0	Total	190.9

Final Form Volumes

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

Final Form	Stored	431.1	Projected	0.0	Total	431.1

TWBIR ID: IN-W174.154

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W177.156

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
D002

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	355.1	Projected	0.0	Total	355.1

Final Form Volumes

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

Final Form	Stored	802.9	Projected	0.0	Total	802.9

TWBIR ID: IN-W177.156

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W179.158

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

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

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	886.1	Projected	0.0	Total	886.1

Final Form Volumes

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

Final Form	Stored	1995.8	Projected	0.0	Total	1995.8

TWBIR ID: IN-W179.158

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W181.162

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

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

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

211

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	34.9	Projected	0.0	Total	34.9

Final Form Volumes

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

Final Form	Stored	80.3	Projected	0.0	Total	80.3

TWBIR ID: IN-W181.162

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W188.160

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

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

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

211

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	64.9	0.0	64.9

Final Form Volumes

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

Final Form	Stored	Projected	Total
	149.1	0.0	149.1

TWBIR ID: IN-W188.160

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W216.98

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

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

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

211

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	2589.7	0.0	2589.7

Final Form Volumes

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

Final Form	Stored	Projected	Total
	12743.2	0.0	12743.2

TWBIR ID: IN-W216.98

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W218.909

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

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

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

111,211

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	923.5	Projected	0.0	Total	923.5

Final Form Volumes

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

Final Form	Stored	2082.8	Projected	0.0	Total	2082.8

TWBIR ID: IN-W218.909

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W219.110

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
F001, F002

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	7.6	0.0	7.6

Final Form Volumes

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

Final Form	Stored	Projected	Total
	4.0	0.0	4.0

TWBIR ID: IN-W219.110

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W219.914

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
F001, F002

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	1.9	Projected	0.0	Total	1.9

Final Form Volumes

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

Final Form	Stored	1.9	Projected	0.0	Total	1.9

TWBIR ID: IN-W219.914

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W220.114

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

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

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

111

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	838.8	0.0	838.8

Final Form Volumes

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

Final Form	Stored	Projected	Total
	1892.5	0.0	1892.5

TWBIR ID: IN-W220.114

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W221.927

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

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

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

113

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	17.1	Projected	0.0	Total	17.1

Final Form Volumes

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

Final Form	Stored	39.2	Projected	0.0	Total	39.2

TWBIR ID: IN-W221.927

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W222.116

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

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

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	115.2	Projected	0.0	Total	115.2

Final Form Volumes

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

Final Form	Stored	259.0	Projected	0.0	Total	259.0

TWBIR ID: IN-W222.116

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W228.101

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

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

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

211

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	1639.0	Projected	0.0	Total	1639.0

Final Form Volumes

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

Final Form	Stored	8063.4	Projected	0.0	Total	8063.4

TWBIR ID: IN-W228.101

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W240.931

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

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

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

118

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	175.4	0.0	175.4

Final Form Volumes

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

Final Form	Stored	Projected	Total
	396.7	0.0	396.7

TWBIR ID: IN-W240.931

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W243.808

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

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

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

118

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	343.2	0.0	343.2

Final Form Volumes

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

Final Form	Stored	Projected	Total
	773.3	0.0	773.3

TWBIR ID: IN-W243.808

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W245.301

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

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

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

225

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	333.6	Projected	0.0	Total	333.6

Final Form Volumes

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

Final Form	Stored	752.2	Projected	0.0	Total	752.2

TWBIR ID: IN-W245.301

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W247.810

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

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

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

118, 218

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	338.0	0.0	338.0

Final Form Volumes

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

Final Form	Stored	Projected	Total
	761.8	0.0	761.8

TWBIR ID: IN-W247.810

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W249.527

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
D009, D009

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	2.7	0.0	2.7

Final Form Volumes

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

Final Form	Stored	Projected	Total
	6.7	0.0	6.7

TWBIR ID: IN-W249.527

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W263.520

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

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

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	123.6	0.0	123.6

Final Form Volumes

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

Final Form	Stored	Projected	Total
	280.1	0.0	280.1

TWBIR ID: IN-W263.520

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W267.1005

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
APP8

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	3.7	Projected	0.0	Total	3.7

Final Form Volumes

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

Final Form	Stored	11.5	Projected	0.0	Total	11.5

TWBIR ID: IN-W267.1005

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W309.609

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

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

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	1571.2	0.0	1571.2

Final Form Volumes

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

Final Form	Stored	Projected	Total
	7730.8	0.0	7730.8

TWBIR ID: IN-W309.609

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W315.601

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
D001

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	14.2	0.0	14.2

Final Form Volumes

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

Final Form	Stored	Projected	Total
	34.4	0.0	34.4

TWBIR ID: IN-W315.601

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W319.584

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
D001

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	1.2	0.0	1.2

Final Form Volumes

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

Final Form	Stored	Projected	Total
	4.8	0.0	4.8

TWBIR ID: IN-W319.584

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W321.1023

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
D001

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	6.0	0.0	6.0

Final Form Volumes

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

Final Form	Stored	Projected	Total
	11.5	0.0	11.5

TWBIR ID: IN-W321.1023

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W322.851

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
APP8

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	0.4	0.0	0.4

Final Form Volumes

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

Final Form	Stored	Projected	Total
	1.9	0.0	1.9

TWBIR ID: IN-W322.851

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W322.952

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
APP8

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	1.5	Projected	0.0	Total	1.5

Final Form Volumes

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

Final Form	Stored	1.7	Projected	0.0	Total	1.7

TWBIR ID: IN-W322.952

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W323.562

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
APP8, APP8

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	0.4	0.0	0.4

Final Form Volumes

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

Final Form	Stored	Projected	Total
	1.9	0.0	1.9

TWBIR ID: IN-W323.562

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W323.951

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
APP8, APP8

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	1.5	0.0	1.5

Final Form Volumes

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

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: IN-W323.951

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W332.661

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	1.5	0.0	1.5

Final Form Volumes

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

Final Form	Stored	Projected	Total
	4.8	0.0	4.8

TWBIR ID: IN-W332.661

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W337.673

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

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

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: IN-W337.673

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W337.957

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

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

Final Form	Stored	Projected	Total
	1.9	0.0	1.9

TWBIR ID: IN-W337.957

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W341.671

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

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

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: IN-W341.671

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W341.954

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

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

Final Form	Stored	Projected	Total
	1.9	0.0	1.9

TWBIR ID: IN-W341.954

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W342.652

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

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

Final Form	Stored	Projected	Total
	1.9	0.0	1.9

TWBIR ID: IN-W342.652

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W342.953

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

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

Final Form	Stored	Projected	Total
	0.4	0.0	0.4

TWBIR ID: IN-W342.953

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W347.818

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	67.8	Projected	0.0	Total	67.8

Final Form Volumes

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

Final Form	Stored	153.9	Projected	0.0	Total	153.9

TWBIR ID: IN-W347.818

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W348.1012

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
APP8

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	10.0	Projected	0.0	Total	10.0

Final Form Volumes

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

Final Form	Stored	22.9	Projected	0.0	Total	22.9

TWBIR ID: IN-W348.1012

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W353.859

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

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

Final Form	Stored	Projected	Total
	0.0	0.0	0.0

TWBIR ID: IN-W353.859

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W353.917

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

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

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: IN-W353.917

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W357.1022

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	1.7	0.0	1.7

Final Form Volumes

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

Final Form	Stored	Projected	Total
	4.8	0.0	4.8

TWBIR ID: IN-W357.1022

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

TWBIR ID: IN-W358.854

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

EPA Codes

As-Generated
APP8

Waste Material Parameters (kg/m3)

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

Final Waste Form Descriptors

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

TRUCON Codes

N/A

Final Form Radionuclides

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

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

As-Generated Volumes

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

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

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

Final Form	Stored	Projected	Total
	1.9	0.0	1.9

TWBIR ID: IN-W358.854

Annex J
TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream was generated at Argonne National Laboratory-West at the INEL. These wastes consist of noncombustible materials including Pu-Be neutron sources (small fuel samples, small sections of moderator, a pu standard, and pu foil), tools, hot cell operating equipment, various containers, and ferrous and nonferrous metals. Some combustible materials may include paper, plastic and PVC containers, rags, Q-tips, string mop heads, and an electrical plug strip and cord. The organic content is less than 14 lb/ft3. Combustibles, including packaging, may exceed 25 volume percent. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. These wastes are packaged three different ways, depending on when the packaging was done. Pu-Be sources packaged in 1975 were placed in a carbon steel pipe, which was cemented and encapsulated into the center of a 55-gallon drum. In 1978, Pu-Be sources were packaged in four 55-gallon drums. Wastes packed in 1980 were wrapped plastic, placed in paraffin lined 15 gallon drums, and then placed in 55-gallon drums. Some individual items may be unbagged.
Waste Stream Source Description	This waste stream was generated at TAN, NRF and ANL-W: Various. The generating process is: Discarded sources.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W358.855

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W358	**Handling**	CH	**Stream Name**	PU NEUTRON SOURCES:CH-Cert-repack			**Inventory Date**	4/30/1995
Local ID	ID-INL-152TN	**Waste Type**	TRU	**Generator Site**	IN	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
APP8

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	96.20	0.00	1634.60
Aluminum-Base Metal/Alloys	0.80	0.00	1.60
Other Metal/Alloys	0.10	0.00	22.70
Other Inorganic Materials	2.40	0.00	24.00
Cellulosics	80.90	0.00	184.80
Rubber	7.30	0.00	16.40
Plastics	64.90	0.00	149.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	37.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	6.65E+02
Pu-239	3.02E+00
Pu-240	5.81E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W358.855

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Bin	3.5	0.0	0.0	0.0	0.0	3.5

As-Generated	Stored	Projected	Total
	3.5	0.0	3.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	3.3	0.0	0.0	0.0	0.0	3.3

Final Form	Stored	Projected	Total
	3.3	0.0	3.3

TWBIR ID: IN-W358.855

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream was generated at Argonne National Laboratory-West at the INEL. These wastes consist of noncombustible materials including Pu-Be neutron sources (small fuel samples, small sections of moderator, a pu standard, and pu foil), tools, hot cell operating equipment, various containers, and ferrous and nonferrous metals. Some combustible materials may include paper, plastic and PVC containers, rags, Q-tips, string mop heads, and an electrical plug strip and cord. The organic content is less than 14 lb/ft3. Combustibles, including packaging, may exceed 25 volume percent. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. These wastes are packaged three different ways, depending on when the packaging was done. Pu-Be sources packaged in 1975 were placed in a carbon steel pipe, which was cemented and encapsulated into the center of a 55-gallon drum. In 1978, Pu-Be sources were packaged in four 55-gallon drums. Wastes packed in 1980 were wrapped plastic, placed in paraffin lined 15 gallon drums, and then placed in 55-gallon drums. Some individual items may be unbagged.
Waste Stream Source Description	This waste stream was generated at TAN, NRF and ANL-W: Various. The generating process is: Discarded sources.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TWBIR ID: IN-W358.948

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W358	**Handling**	CH	**Stream Name**	PU NEUTRON SOURCES:CH-Uncertifiable			**Inventory Date**	4/30/1995
Local ID	ID-INL-152TN	**Waste Type**	TRU	**Generator Site**	IN	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
APP8

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	0.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	2500.00	2500.00	2500.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	131.00		
Packaging Material, Plastic	0.00		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	2.21E+03
Pu-239	1.01E+01
Pu-240	1.93E+01

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W358.948

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	Projected	Total
	0.2	0.0	0.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2

Final Form	Stored	Projected	Total
	0.2	0.0	0.2

TWBIR ID: IN-W358.948

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream was generated at Argonne National Laboratory-West at the INEL. These wastes consist of noncombustible materials including Pu-Be neutron sources (small fuel samples, small sections of moderator, a pu standard, and pu foil), tools, hot cell operating equipment, various containers, and ferrous and nonferrous metals. Some combustible materials may include paper, plastic and PVC containers, rags, Q-tips, string mop heads, and an electrical plug strip and cord. The organic content is less than 14 lb/ft3. Combustibles, including packaging, may exceed 25 volume percent. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. These wastes are packaged three different ways, depending on when the packaging was done. Pu-Be sources packaged in 1975 were placed in a carbon steel pipe, which was cemented and encapsulated into the center of a 55-gallon drum. In 1978, Pu-Be sources were packaged in four 55-gallon drums. Wastes packed in 1980 were wrapped plastic, placed in paraffin lined 15 gallon drums, and then placed in 55-gallon drums. Some individual items may be unbagged.
Waste Stream Source Description	This waste stream was generated at TAN, NRF and ANL-W: Various. The generating process is: Discarded sources.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years.

TWBIR ID: IN-W358.949

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W358	**Handling**	RH	**Stream Name**	PU NEUTRON SOURCES:RH-Cert-repack			**Inventory Date**	9/30/2002
Local ID	ID-INL-152TN	**Waste Type**	TRU	**Generator Site**	IN	**Final Waste Form**	Uncategorized Metal	**Waste Matrix Code**	S5420

EPA Codes

As-Generated
APP8

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	55.60	0.00	1146.05
Aluminum-Base Metal/Alloys	0.46	0.00	1.12
Other Metal/Alloys	0.06	0.00	15.92
Other Inorganic Materials	1.39	0.00	16.83
Cellulosics	46.76	0.00	129.57
Rubber	4.22	0.00	11.50
Plastics	37.51	0.00	104.47
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	525.82		
Packaging Material, Plastic	27.65		
Packaging Material, Lead	464.41		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Other/Multiple Sources

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	4.66E+02
Pu-239	2.12E+00
Pu-240	4.07E+00

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W358.949

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	1.3	0.0	0.0	0.0	0.0	1.3
RH Insert	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated	Stored	1.5	Projected	0.0	Total	1.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
RH Canister	3.6	0.0	0.0	0.0	0.0	3.6
RH Canister used to overpack	2.5	0.0	0.0	0.0	0.0	2.5

Final Form	Stored	6.1	Projected	0.0	Total	6.1

TWBIR ID: IN-W358.949

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream was generated at Argonne National Laboratory-West at the INEL. These wastes consist of noncombustible materials including Pu-Be neutron sources (small fuel samples, small sections of moderator, a pu standard, and pu foil), tools, hot cell operating equipment, various containers, and ferrous and nonferrous metals. Some combustible materials may include paper, plastic and PVC containers, rags, Q-tips, string mop heads, and an electrical plug strip and cord. The organic content is less than 14 lb/ft3. Combustibles, including packaging, may exceed 25 volume percent. The levels of dispersible fines should be within WIPP-WAC limits. No sludges or free liquids should be present. No explosive or pyrophoric materials should be in this waste. These wastes are packaged three different ways, depending on when the packaging was done. Pu-Be sources packaged in 1975 were placed in a carbon steel pipe, which was cemented and encapsulated into the center of a 55-gallon drum. In 1978, Pu-Be sources were packaged in four 55-gallon drums. Wastes packed in 1980 were wrapped plastic, placed in paraffin lined 15 gallon drums, and then placed in 55-gallon drums. Some individual items may be unbagged.
Waste Stream Source Description	This waste stream was generated at TAN, NRF and ANL-W: Various. The generating process is: Discarded sources.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads and examination of waste by real time radiography will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	All containers of this WTWBIR waste stream are included in the amount listed above. See 8.2.15.1.13 for the years. Original data showed 3 RH canisters. Int. volume and # stored were changed to more accurately reflect the waste volume of 2.4 m3 as follows: 2.4 m3 / .208 m3/ drum = 11.538 drums, rounded to 12 drums. Tb 3/27/03

TWBIR ID: IN-W361.1021

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W361	**Handling**	CH	**Stream Name**	SOOT:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-422TN	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S3111

EPA Codes

As-Generated
APP8, APP8, APP8, APP8, APP8, APP8, APP8, APP8

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1.21	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	3.94	0.00	0.00
Cellulosics	5.84	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.91	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.85		
Packaging Material, Plastic	22.22		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.98E-03
Pu-238	2.43E-01
Pu-239	6.89E+00
Pu-240	1.56E+00
Pu-242	1.12E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W361.1021

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	5.2	0.0	0.0	0.0	0.0	5.2

As-Generated	Stored	5.2	Projected	0.0	Total	5.2

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	1.9	0.0	0.0	0.0	0.0	1.9
TDOP	9.6	0.0	0.0	0.0	0.0	9.6

Final Form	Stored	11.5	Projected	0.0	Total	11.5

TWBIR ID: IN-W361.1021

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste, generated at the Rocky Flats Plant, consists of flyash generated from periodic cleaning of the Pu recovery incinerator off-gas system. Ash is packaged in 1- and 2-quart PE bottles and then in standard RFP fashion in drums. Drums will hold up to 50 bottles depending on Pu content. Bottles are individually assayed and fissile quantities calculated.
Waste Stream Source Description	This waste stream was generated at Building 771: Plutonium Recovery Operations.. The generating process is: Pu recovery rncinerator fly ash.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W362.1020

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W362	**Handling**	CH	**Stream Name**	ASH HEELS:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-421TN	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S3111

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1.25	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	4.05	0.00	0.00
Cellulosics	6.01	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.94	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.85		
Packaging Material, Plastic	22.22		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	7.98E-01
Pu-239	2.25E+01
Pu-240	5.13E+00
Pu-242	3.68E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W362.1020

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	21.4	0.0	0.0	0.0	0.0	21.4

As-Generated	Stored	21.4	Projected	0.0	Total	21.4

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	7.6	0.0	0.0	0.0	0.0	7.6
TDOP	38.3	0.0	0.0	0.0	0.0	38.3

Final Form	Stored	45.9	Projected	0.0	Total	45.9

TWBIR ID: IN-W362.1020

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste, generated at the Rocky Flats Plant, consists of ash heels generated from the recovery of Pu from incinerator ash. Ash is packaged in 0.5-and 1-gallon PE bottles and then in standard RFP fashion in drums. Drums will hold up to 25 bottles depending on Pu content. Bottles are individually assayed and fissile quantities calculated.
Waste Stream Source Description	This waste stream was generated at Building 771: Plutonium Recovery Operations.. The generating process is: Leach of Pu recovery incineration ash.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W363.1019

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W363	**Handling**	CH	**Stream Name**	VIRGIN INCINERATOR ASH:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-420TN	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S3111

EPA Codes

As-Generated
APP8, APP8, APP8, APP8, APP8, APP8, APP8, APP8

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	1.39	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	4.54	0.00	0.00
Cellulosics	6.73	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	1.05	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.43		
Packaging Material, Plastic	23.45		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	No
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	3.59E-01
Pu-239	1.02E+01
Pu-240	2.31E+00
Pu-242	1.66E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W363.1019

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	2.3	0.0	0.0	0.0	0.0	2.3

As-Generated	Stored	Projected	Total
	2.3	0.0	2.3

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	0.0	0.0	0.0	0.0	0.0	0.0
TDOP	4.8	0.0	0.0	0.0	0.0	4.8

Final Form	Stored	Projected	Total
	4.8	0.0	4.8

TWBIR ID: IN-W363.1019

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste, generated at the Rocky Flats Plant, consists of ash generated in the Pu recovery incinerator. Ash is packaged in 0.5- and 1-gallon PE bottles and then in standard RFP fashion in drums. Drums will hold up to 25 bottles depending on Pu content. Bottles are individually assayed and fissile quantities calculated.
Waste Stream Source Description	This waste stream was generated at Building 771: Plutonium Recovery Operations.. The generating process is: Pu recovery incinerator ash.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W364.1011

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W364	**Handling**	CH	**Stream Name**	SAND, SLAG AND CRUCIBLES:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-392TN	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S3117

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	146.00	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.43		
Packaging Material, Plastic	23.67		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Pu-238	5.93E-01
Pu-239	1.68E+01
Pu-240	3.81E+00
Pu-242	2.73E-04

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W364.1011

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated	Stored	Projected	Total
	1.5	0.0	1.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	0.0	0.0	0.0	0.0	0.0	0.0
TDOP	4.8	0.0	0.0	0.0	0.0	4.8

Final Form	Stored	Projected	Total
	4.8	0.0	4.8

TWBIR ID: IN-W364.1011

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	Specific information is not available for this content code. The waste stream is thought to be similar to content code 391, crucibles and sand. The operation which generated the waste is unknown. The waste packaging and handling procedures are unknown, although the waste form is thought to similar to content code 391.
Waste Stream Source Description	This waste stream was generated at Bldg 776: UNK. The generating process is: UNK
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W365.1010

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W365	**Handling**	CH	**Stream Name**	CRUCIBLES AND SAND:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-391TN	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S3117

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	175.57	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.85		
Packaging Material, Plastic	22.41		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Materials Production/Recovery Effluents

TRUCON Codes

N/A

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	2.78E+01
Pu-238	1.96E-01
Pu-239	5.54E+00
Pu-240	1.26E+00
Pu-242	9.04E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W365.1010

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	4.8	0.0	0.0	0.0	0.0	4.8

As-Generated	Stored	4.8	Projected	0.0	Total	4.8

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	1.9	0.0	0.0	0.0	0.0	1.9
TDOP	9.6	0.0	0.0	0.0	0.0	9.6

Final Form	Stored	11.5	Projected	0.0	Total	11.5

TWBIR ID: IN-W365.1010

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste consists of broken magnesium oxide crucibles and limited amounts of magnesium oxide sand, used in a molten salt cleanup project when reducing plutonium tetrafluoride to plutonium metal. Above-discard levels of plutonium were recovered from these crucibles by nitric acid leaching. The waste stream handling and packaging is as follows: the crucibles were placed into 1-gallon PE bottles. Each bottle was double-bagged out the glovebox in PVC and PE bags. Each bottle was assayed and the placed in prepared 55 gallon drums, about 12-16 bottles per drum. Some of the drums were lead-lined. Prior to 1972, the drums were lined with one or two PE bags, which were sealed with tape. Some of the drums may have cardboard liners inside of the inner liner. After 1972, 90-mil sealed rigid liners were used in addition to one or two PE bags. Since 1972, drums were inspected (and corrected where needed) for free liquids, proper packaging, and proper content code. One to two quarts of Oil-dri was placed on the outer sealed PE drum bag. Starting in February 1982, 3-12 lb of vermiculite was used to fill the space between the outer drum bag and the rigid liner.
Waste Stream Source Description	This waste stream was generated at Bldg 776 and 771: Pyrochemical and Plutonium Recovery Operations.. The generating process is: Plutonium recovery.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A

TWBIR ID: IN-W366.841

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID	IN-W366	**Handling**	CH	**Stream Name**	LECO CRUCIBLES:Direct Ship			**Inventory Date**	9/30/2002
Local ID	ID-RFO-370TN	**Waste Type**	TRU	**Generator Site**	RF	**Final Waste Form**	Inorganic Non-Metal	**Waste Matrix Code**	S3117

EPA Codes

As-Generated
N/A

Waste Material Parameters (kg/m3)

Material Parameter	Average	Lower	Upper
Iron-Base Metal/Alloys	0.00	0.00	0.00
Aluminum-Base Metal/Alloys	0.00	0.00	0.00
Other Metal/Alloys	0.00	0.00	0.00
Other Inorganic Materials	194.07	0.00	0.00
Cellulosics	0.00	0.00	0.00
Rubber	0.00	0.00	0.00
Plastics	0.00	0.00	0.00
Solidified, Inorganic Matrix	0.00	0.00	0.00
Cement (Solidified)	0.00	0.00	0.00
Vitrified	0.00	0.00	0.00
Solidified, Organic Matrix	0.00	0.00	0.00
Soils	0.00	0.00	0.00
Packaging Material, Steel	208.73		
Packaging Material, Plastic	22.78		
Packaging Material, Lead	0.00		
Packaging Material, Steel Plug	0.00		

Final Waste Form Descriptors

Category:	Defense TRU Waste
Residues:	No
Asbestos:	Unknown
PCBs:	No
Source:	Analytical Laboratory Waste

TRUCON Codes

222

Final Form Radionuclides

Isotope	Typical Concentration (Ci/m3)
Am-241	7.00E-02
Pu-238	1.18E-01
Pu-239	3.33E+00
Pu-240	7.55E-01
Pu-242	5.44E-05

Waste Volume Detail (Cubic meters) for TWBIR ID : IN-W366.841

As-Generated Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
Drum	7.5	0.0	0.0	0.0	0.0	7.5

As-Generated	Stored	7.5	Projected	0.0	Total	7.5

Final Form Volumes

ContainerType	Stored End of CY 2001	Projected 2002-2006	Projected 2007-2016	Projected 2017-2026	Projected 2027-2036	Total
SWB	1.9	0.0	0.0	0.0	0.0	1.9
TDOP	14.4	0.0	0.0	0.0	0.0	14.4

Final Form	Stored	16.3	Projected	0.0	Total	16.3

TWBIR ID: IN-W366.841

Annex J

TRU WASTE BASELINE INVENTORY WASTE PROFILE

Waste Stream Description	This waste stream includes blank LECO crucibles and caps used for sample analysis. The crucibles are 1 inch high by 1 inch diameter, made of fired silica based ceramic. The crucibles were used to calibrate the LECO anlayzer, and contain fused amounts of accelerating metals (iron, tin, copper, titanium, stainless steel, etc.) used for blank calibration. The crucibles should be unbroken except for those generated prior to 1975, which were broken before packaging. Even when broken, there should be minimal respirable or dispersable fines which would not exceed the WIPP-WAC. The waste stream handling and packaging is as follows: blank crucibles and caps were placed into 1-gallon metal paint cans, about 150-200 per can. The can lid was placed and sealed with tape. each paint can was double-bagged out the glovebox in PVC or PE-PVC bags and placed in prepared 55-gallon drums, about 20-25 cans per drum. Prior to 1972, 90-mil sealed rigid liners were used in addition to the two PE bags. Since 1972, drums were inspected (and corrected where needed) for free liquids, proper packaging, and proper content code. One to two quarts of Oil-dri was placed on the outer sealed PE drum bag. Starting in February 1982, 3-12 lb of vermiculite was used to fill the space between the outer drum bag and the rigid liner.
Waste Stream Source Description	This waste stream was generated at Bldg 559: Plutonium Laboratory.. The generating process is: Sample analysis.
Current Container Comments	N/A
EPA Comments	The EPA list in 3.4.3 is based on generator supplied process knowledge and/or headspace gas sampling. No TCLP or Total Analysis has been done.
Management Comments	Total inventory figures as to number of containers and volume of waste, is considered to be fairly accurate. All waste is presently stored on indoor or earthen covered pads. Retrieval from the earthen covered pads will begin in the next 1 - 2 years.
Acceptance Comments	N/A
Final Form Comments	N/A