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Transuranic Waste Baseline Inventory Report (Revision 2)

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Volume 3

LA Los Alamos National Laboratory

LOS ALAMOS NATIONAL LABORATORY

Location and Description

The Los Alamos National Laboratory (LANL) is located approximately 97 kilometers north of Albuquerque and 40 kilometers west of Santa Fe in Los Alamos County, New Mexico. The laboratory facilities are dispersed among numerous Technical Areas (TAs) spread over a 111-square kilometer site on the Pajarito Plateau. The plateau consists of several finger-like mesas extending eastward from the Jemez Mountains to the Rio Grande Valley with steep eroded canyons separating the mesas. The elevation of the mesas range from 1890 to 2377 meters. Some TAs are located in canyons.

The Los Alamos effort was the beginning of what is today the nationwide Albuquerque Operations Office laboratory and industrial complex of the DOE.

Mission

The Los Alamos Scientific Laboratory was established in 1943 by the U.S. Army's Manhattan Engineer District for the purpose of developing the first atomic bombs. Known as the Los Alamos Scientific Laboratory for many years, the name was changed to the Los Alamos National Laboratory in December 1980. LANL was the research, development, engineering design, and testing center for the Manhattan Project. The mission was the application of science and technology to problems of national security, including the maintenance of a strong defense, the fulfillment of arms controls commitments and the guarantee of a secure energy supply for the future.

During the wartime Manhattan Project, Los Alamos, New Mexico, was wholly-owned and controlled by the Government.

LANL's mission since World War II has included nuclear device design, research, development, testing, stockpile certification, and plutonium storage. Major programs currently include research in nuclear and conventional weapons development; nuclear fission and fusion; nuclear safeguards and security; verification and control technologies; fundamental research in particle physics, mathematics, chemistry, and materials; and waste management technology development and testing.

Research on peaceful uses of nuclear energy has included space applications, power reactor programs, magnetic and inertial fusion, radiobiology, and medicine. Other programs include astrophysics, earth sciences, lasers, computer sciences, solar energy, geothermal energy, biomedical and environmental research, and nuclear waste management research.

Today, the Waste Management Facilities Operations Group, CST-27, is responsible for all waste management facilities at LANL, except those related to high-explosives waste and sanitary waste, and those operated by waste generators in preparing their wastes for disposal. The Waste Management Program includes treating radioactive liquid and solid waste; packaging, transporting, treating, and disposing of hazardous chemical waste; and operating the disposal and storage sites for mixed waste. The Waste Management Program provides treatment, storage and disposal for Environmental Restoration Program-generated waste.

Waste Information

Processes

Major CH TRU waste generators at LANL are: Analytical Chemical Group (CHM-1), Nuclear Fuel Development and Facilities Operations Group (MST-11), Nuclear Materials Process Technology Group (MST-12), and Plutonium Metal Technology Group (MST-13).

RH TRU waste is generated by the Irradiated Materials Examination Group (MST-14).

CHM-1 is involved in analysis of radioactive materials. The waste generated by CHM-1 are combustibles (paper, rags, plastics, rubber) and non-combustibles (glass, ceramic, porcelain, metal, transite, chemicals, and equipment).

Wastes generated in MST-12 are process residues in solid and liquid TRU waste streams left when all economically recoverable quantities of special nuclear materials have been removed from a nuclear material item.

The wastes generated in MST-13 are combustible solids, noncombustible scrap (small tools, cans, small equipment items), and cemented process residues (process leached solids, filter cakes, and evaporator bottoms) stabilized in Portland or Gypsum cement.

The Size Reduction Facility's waste consists of metal equipment, either whole or sectional along with its combustible components, and the small volumes of combustibles generated during decommissioning, sectioning, and packaging (mostly gloveboxes, process equipment, and ductwork from decommissioning operations).

MST-14 generates both contact and remote handled solid wastes from hot cell operations.

Modifications/Assumptions/Development

LANL reported radionuclides in total Curies. The TWBIR team used the volumes reported for each waste stream to calculate the radionuclides in terms of Ci/m^3.

LANL's waste material parameters Solidified, Inorganic Matrix and Cement (Solidified) for waste streams LA–M002, LA–W003, LA–W006, LA–T002, and LA–T006 were calculated based on the proposed amount of cement that will be used to solidify these waste streams.

For final form containers, the estimated generation for newly generated waste was reported in the years 1995 to 2000. For the years 2001 to 2022 a bulk amount was reported. The TWBIR team converted this bulk amount into containers/year, assuring a constant generation rate per year between 2001 and 2022.

LANL assumes the internal volume for a 85 gallon drum used to overpack a 55 gallon drum is 0.208 m^3. This is assumed because all waste from 55 gallon drums that are currently overpacked in 85 gallon drums will be repackaged into 55 gallon drums for shipment to WIPP (upon WIPP–WAC certification).

Waste streams that are expected to be directly shipped to WIPP (upon WIPP–WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double– counting these streams as both "as generated currently stored" and "final form projected."

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LA-W047	Handling:	CH	NMVP #:	LA 111A; 211A	Stream Name:	Cemented Process Sludge	Inventory Date:	12/31/94
Local ID:	LA-M002	Type:	MTRU	Generator Site:	LA	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3000

AS-GENERATED EPA CODES

F005, F002, F001, D009, D008, D007

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	603.0	507.0	1014.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	693.0	583.0	1166.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	149.3		
Packaging Material Plastic:	8.5		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

LA 111A; 211A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Y-90	3.10E-03
U-238	2.50E-06
U-235	7.86E-06
U-234	1.16E-06
U-233	6.55E-06
Th	3.57E-08
Sr-90	3.10E-03
Pu-241	8.94E-04
Pu-239	2.73E-01
Pu-238	4.75E-02
Cs-137	3.10E-03
AM240	2.09E-06
Am-241	4.55E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	181.0	59.3	98.8	197.6	197.6	734.2
Drum / 85-gallon	1.7	0.0	0.0	0.0	0.0	1.7
Metal Pipe	2870.6	0.0	0.0	0.0	0.0	2870.6
Totals	3053.3	59.3	98.8	197.6	197.6	3606.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	182.6	59.3	98.8	197.6	197.6	735.9
Standard Waste Box	2870.9	0.0	0.0	0.0	0.0	2870.9
Totals	3053.5	59.3	98.8	197.6	197.6	3606.8

As-Generated Form: Stored: 3053.3 Projected: 553.3 Total: 3606.5

Final Waste Form: Stored: 3053.5 Projected: 553.3 Total: 3606.8

WASTE STREAM DESCRIPTION	Solidified aqueous waste, cemented sludge. The sludge is a residue from numerous treatment and filtration operations involving aqueous liquid radioactive waste. This treatment produces a thin sludge (approximately 25 percent solids) that is alkaline and is compatible with Portland cement. Final cemented waste monoliths are produced by mixing the waste in 55-gallon steel drums containing empirically determined quantities of sludge, Portland cement, vermiculite, and sodium silicate.
WASTE STREAM SOURCE	Cemented Aqueous waste
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	8 55 gallon drums are generated from the repackaging of 85 gallon drums. Projections are based on present generation rates.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LA-W055	Handling:	CH	NMVP #:	LA 125A	Stream Name:	Mixed Scrap Metal	Inventory Date:	12/31/94
Local ID:	LA-T001	Type:	TRU	Generator Site:	LA	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	272.6	69.2	822.2
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	30.3	7.7	91.3
Other Inorganic Material:	6.8	6.8	6.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	64.0	59.2	68.7
Rubber:	1.1	1.0	1.2
Plastics:	5.3	4.9	5.7
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	134.3		
Packaging Material Plastic:	31.8		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

LA 125A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	9.54E-07
Pu-241	1.93E-01
Pu-240	1.15E-02
Pu-239	2.68E-01
Pu-238	1.03E+00
Cm-244	2.43E-06

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 30-gallon	0.1	0.0	0.0	0.0	0.0	0.1
Drum / 55-gallon	1.2	59.9	99.8	199.7	199.7	560.4
fiberglass Reinfocre Plywood	92.3	0.0	0.0	0.0	0.0	92.3
standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9
Totals	95.5	59.9	99.8	199.7	199.7	654.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.5	59.9	99.8	199.7	199.7	560.6
Standard Waste Box	94.5	0.0	0.0	0.0	0.0	94.5
Totals	96.0	59.9	99.8	199.7	199.7	655.1

As-Generated Form: Stored: 95.5 Projected: 559.1 Total: 654.6

Final Waste Form: Stored: 96.0 Projected: 559.1 Total: 655.1

WASTE STREAM DESCRIPTION	Mixed metal scrap and incidental combustibles. This waste is generated at various TAs throughout LANL. The waste consists mostly of metals or metal equiptment, either whole or sectioned, and lesser amounts of combustible components. In addition, it contains small volumes of combustibles generated during decommissioning, sectioning, and packaging. The waste forms primarily include gloveboxes, process equiptment, and ductwork from decommissioning operations. Gloveboxes may include gloves, wiring, plastic, glass windows, plastic wrapping, and lead shielding.
WASTE STREAM SOURCE	Mixed scrap metals and incidental combustibles generated at various TA's throughout the lab.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	based on process knowledge
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	1 55 gallon drum is generated from the overpacking of the 30 gallon drum. Projections are based on present generation rates.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LA-W065	Handling:	CH	NMVP #:	LA 111A; 211A	Stream Name:	Cemented Process Sludge	Inventory Date:	12/31/94
Local ID:	LA-T002	Type:	TRU	Generator Site:	LA	Final Waste Form:	Solidified Organics	Waste Matrix Code:	S3000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	603.0	507.0	1014.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	693.0	583.0	1166.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

LA 111A
LA 211A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-235	2.17E-05
Pu-239	1.78E+00
Pu-238	9.13E-02
Am-241	2.62E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55 gallon drum	1.5	3.1	5.2	10.4	10.4	30.6
Totals	1.5	3.1	5.2	10.4	10.4	30.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.5	3.1	5.2	10.4	10.4	30.6
Totals	1.5	3.1	5.2	10.4	10.4	30.6

As-Generated Form: Stored: 1.5 Projected: 29.1 Total: 30.6

Final Waste Form: Stored: 1.5 Projected: 29.1 Total: 30.6

WASTE STREAM DESCRIPTION	Cemented aqueous waste, solidified with Portland cement to form a noncorrosive solid monolith. The sludge is a residue from the treatment of blended acidic and caustic aqueous liquid radioactive waste with calcium hydroxide, ferric sulfate, and a flocculation aid. This treatment produces a thin sludge that is always alkaline and is compatible with Portland cement. Final cemented waste monoliths are produced by tumbling 55-gallon steel drums containing empirically determined quantities of sludge, Portland cement, vermiculite, and sodium silicate.
WASTE STREAM SOURCE	Cemented aqueous waste, solidified with Portland cement to form a noncorrosive solid monolith.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	represents waste stream LA-T002
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Projections are based on present generation rates.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LA-W056	Handling:	CH	NMVP #:	LA 116A	Stream Name:	Combustible Waste	Inventory Date:	12/31/94
Local ID:	LA-T004	Type:	TRU	Generator Site:	LA	Final Waste Form:	Combustible	Waste Matrix Code:	S5000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	257.7	254.0	265.2
Aluminum-base Metal/Alloys:	0.4	0.4	0.4
Other Metals/Alloys:	18.8	18.8	89.7
Other Inorganic Material:	6.8	6.8	6.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	64.0	59.2	68.7
Rubber:	1.1	1.0	1.2
Plastics:	5.3	4.9	5.7
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.9		
Packaging Material Plastic:	35.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

LA 116A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-240	1.48E-01
Am-243	3.18E-06
Ba-137m	6.92E-02
Cm-243	9.58E-04
Cm-244	3.89E-02
Cs-137	6.92E-02
Np-237	2.02E-06
Am-241	1.93E-02
Pu-239	5.80E-01
Y-90	6.92E-02
Pu-241	3.02E+00
Pu-242	5.64E-04
Pu-244	4.66E-10
Sr-90	6.92E-02
U-233	2.08E-05
U-234	1.30E-05
U-235	2.10E-06
U-236	5.18E-08
U-238	2.27E-06
Pu-238	3.84E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 30-gallon	30.7	0.0	0.0	0.0	0.0	30.7
Drum / 55-gallon	1373.0	179.7	299.5	599.0	599.0	3050.3
Drum / 85-gallon	0.8	0.0	0.0	0.0	0.0	0.8
Fiberglass Reinfocre Plywood	123.2	0.0	0.0	0.0	0.0	123.2
Totals	1527.8	179.7	299.5	599.0	599.0	3205.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1430.4	179.7	299.5	599.0	599.0	3107.7
Standard Waste Box	124.7	0.0	0.0	0.0	0.0	124.7
Totals	1555.2	179.7	299.5	599.0	599.0	3232.5

As-Generated Form: Stored: 1527.8 Projected: 1677.3 Total: 3205.1

Final Waste Form: Stored: 1555.2 Projected: 1677.3 Total: 3232.5

WASTE STREAM DESCRIPTION	Combustible waste including plastic-basedand cellulose-based waste generated at the lab. Plastic-based waste includes, but may not be limited to , tape, polyethylene, and vinyl; gloves; plastic vials; polystyrene;Tygon tubing; polyvinyl chloride plastic;Teflon producrts; plexiglass; and dry box gloves. Cellulose -based waste includes, but may not be limited to, rags, wood, paper, cardboard, laboratory coats and coveralls, booties and cotton gloves, and similar miscellaneous materials. Waste may also contain a small fraction of noncombustible scrap metal.
WASTE STREAM SOURCE	Combustibe waste including plastic-based and cellulose-based waste generated at the lab.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	272 55 gallon drums are generated from the overpacking of the 30 gallon drum and 4 55 gallon drums are generated from the repackaging of the 85 gallon drums. Projections are based on present generation rates.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LA-W057	Handling:	CH	NMVP #:	LA 117A; 118A	Stream Name:	Non Combustible Waste	Inventory Date:	12/31/94
Local ID:	LA-T005	Type:	TRU	Generator Site:	LA	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5100

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	257.7	254.0	265.2
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	302.9	76.9	913.5
Other Inorganic Material:	6.8	6.8	6.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0	0.0	0.0
Packaging Material Steel:	134.1		
Packaging Material Plastic:	32.2		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

LA 117A; 118A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Po-210	6.65E-07
Am-241	5.02E-02
Am-243	1.38E-04
Ba-137m	8.46E-03
Bk-249	6.65E-07
Cd-109	1.76E+00
Cf-249	6.65E-07
Cm-242	6.79E-07
Cm-244	1.08E-01
Co-60	6.65E-07
Cs-137	8.46E-03
Ac-227	2.91E-04
Pa-231	7.39E-07
Y-90	8.46E-03
Pu-238	4.11E+01
Pu-239	3.03E+00
Pu-240	7.16E-01
Pu-241	1.19E+01
Pu-242	6.18E-04
Pu-244	4.32E-10
Ra-226	6.02E-04
Sr-90	8.46E-03
U-233	2.72E-02
U-234	2.13E-05
U-235	2.13E-06
U-236	3.78E-08
U-238	6.97E-04
Np-237	1.72E-06

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 30-gallon	36.5	0.0	0.0	0.0	0.0	36.5
Drum / 55-gallon	1084.1	119.8	199.7	399.4	399.4	2202.3
Drum / 85-gallon	0.2	0.0	0.0	0.0	0.0	0.2
fiberglass Reinfocre Plywood	343.0	0.0	0.0	0.0	0.0	343.0
standard Waste Box	7.6	0.0	0.0	0.0	0.0	7.6
Totals	1471.4	119.8	199.7	399.4	399.4	2589.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1151.5	119.8	199.7	399.4	399.4	2269.7
Standard Waste Box	351.5	0.0	0.0	0.0	0.0	351.5
Totals	1503.0	119.8	199.7	399.4	399.4	2621.2

As-Generated Form: Stored: 1471.4 Projected: 1118.2 Total: 2589.6

Final Waste Form: Stored: 1503.0 Projected: 1118.2 Total: 2621.2

WASTE STREAM DESCRIPTION	Non-combustible scrap - small tools, cans, small equipment items, HEPA filters, glass ware, metal, leaded rubber, graphite and pyrochemical waste generated at several site around the laboratory.
WASTE STREAM SOURCE	Noncombustible waste consisting of HEPA filters, glass ware, metal \, leaded rubber waste, graphite and pyrochemical sal wases.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	data entered by the waste generators
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	323 55 gallon drums are generated from the overpacking of the 30 gallon drum and 1 55 gallon drum is generated from the repackaging of the 85 gallon drums. Projections are based on present generation rates.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LA-W058	Handling:	CH	NMVP #:	LA 114A; LA 126	Stream Name:	Solidified Inorganic process solids	Inventory Date:	12/31/94
Local ID:	LA-T006	Type:	TRU	Generator Site:	LA	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	43.3	38.5	48.1
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	447.1	335.3	491.8
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	514.4	385.7	565.9
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

LA 114A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-238	1.33E-05
U-236	6.18E-08
U-235	4.53E-07
U-234	1.45E-05
U-233	1.90E-04
Pu-244	2.19E-10
Pu-242	2.69E-04
Pu-241	6.43E+00
Pu-240	3.10E-01
Pu-239	1.26E+00
Pu-238	1.20E+02
Np-237	1.41E-06
Am-241	8.63E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Cardboard Box	0.2	0.0	0.0	0.0	0.0	0.2
Drum / 30-gallon	0.3	0.0	0.0	0.0	0.0	0.3
Drum / 55-gallon	4.2	8.7	14.6	29.1	29.1	85.7
Totals	4.7	8.7	14.6	29.1	29.1	86.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	5.0	8.7	14.6	29.1	29.1	86.5
Totals	5.0	8.7	14.6	29.1	29.1	86.5

As-Generated Form: Stored: 4.7 Projected: 81.5 Total: 86.3

Final Waste Form: Stored: 5.0 Projected: 81.5 Total: 86.5

WASTE STREAM DESCRIPTION	Cemented process residues. Solidified inorganic and organic process solids. This waste consists of process leached solids, ash, filter cakes, salts, metal oxides, fines and evaporator bottoms stabilized in Portland or gypsum cement.
WASTE STREAM SOURCE	Solidified inorganic and organic process solids. This waste consists of process leached solids, ash, filter cakes, salts, metal oxides, fines and evaporator bottoms stabilized in Portland or gypsum cement.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	From database
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Pu-239 FGE based on present drums identified. 3 55 gallon drums are generated from the overpacking of the 30 gallon drum and 1 55 gallon drum is generated from the repackaging of the cardboard box. Projections are based on present generation rates.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LA-W059	Handling:	CH	NMVP #:	unknown	Stream Name:	Hot-Cell Waste	Inventory Date:	12/31/94
Local ID:	LA-T007	Type:	TRU	Generator Site:	LA	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	272.6	69.2	822.2
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	30.3	7.7	91.3
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	7.12E+01
U-238	2.38E-08
U-236	3.49E-07
U-235	4.65E-04
U-234	8.17E-05
Sr-90	7.12E+01
Pu-242	2.70E-06
Pu-241	6.24E-01
Pu-240	3.93E-02
Pu-239	6.47E+00
Pu-238	3.60E+00
Cs-137	7.12E+01
Ba-137m	7.12E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	5.6	3.1	5.2	10.4	10.4	34.7
Other	0.9	0.0	0.0	0.0	0.0	0.9
Totals	6.6	3.1	5.2	10.4	10.4	35.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	6.7	3.1	5.2	10.4	10.4	35.8
Totals	6.7	3.1	5.2	10.4	10.4	35.8

As-Generated Form: Stored: 6.6 Projected: 29.1 Total: 35.7

Final Waste Form: Stored: 6.7 Projected: 29.1 Total: 35.8

WASTE STREAM DESCRIPTION	Contact handled hot cell waste including both combustible and noncombustible waste forms. This waste is generated by MST-5 in the CRM building.
WASTE STREAM SOURCE	Contact handled hot cell waste including both combustible and noncombustible waste forms.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	None
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	5 55 gallon drums are generated from the overpacking of Other containers. Projections are based on present generation rates.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LA-W060	Handling:	CH	NMVP #:	unknown	Stream Name:	Soils	Inventory Date:	12/31/94
Local ID:	LA-T008	Type:	TRU	Generator Site:	LA	Final Waste Form:	Soils	Waste Matrix Code:	S3000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	1200.0	1000.0	1600.0
Packaging Material Steel:	147.5		
Packaging Material Plastic:	11.3		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	2.67E-07
Pu-241	2.29E-02
Pu-240	3.73E-04
Pu-239	2.49E-01
Pu-238	1.90E+00
Am-241	5.43E-05

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	10.4	3.1	5.2	10.4	10.4	39.5
fiberglass Reinfocre Plywood	98.8	0.0	0.0	0.0	0.0	98.8
Totals	109.2	3.1	5.2	10.4	10.4	138.3

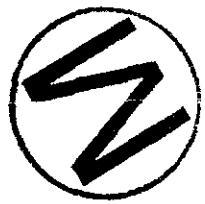
Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	10.4	3.1	5.2	10.4	10.4	39.5
Standard Waste Box	100.2	0.0	0.0	0.0	0.0	100.2
Totals	110.6	3.1	5.2	10.4	10.4	139.7

As-Generated Form: Stored: 109.2 Projected: 29.1 Total: 138.3

Final Waste Form: Stored: 110.6 Projected: 29.1 Total: 139.7

WASTE STREAM DESCRIPTION	Soils contaminated with Transuranic material. This waste was produced at several sites throughout LANL. A good portion of the waste came from TA-21
WASTE STREAM SOURCE	Soils contaminated with Transuranic material. THis waste was produced at several sites throughout LANL. A good portion of the waste came from TA-21
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	from TRU database
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Projections are based on present generation rates.



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LA-W061	Handling:	CH	NMVP #:	unknown	Stream Name:	Glovebox and Ducting Material	Inventory Date:	12/31/94
Local ID:	LA-T009	Type:	TRU	Generator Site:	LA	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5110

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	272.6	69.2	822.2
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	30.3	7.7	91.3
Other Inorganic Material:	6.8	6.8	6.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	64.0	59.2	68.7
Rubber:	1.1	1.0	1.2
Plastics:	5.3	4.9	5.7
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	141.9		
Packaging Material Plastic:	20.1		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	6.11E-05
Pu-241	6.19E+00
Pu-240	2.10E-01
Pu-239	7.53E-01
Pu-238	7.79E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55 gallon drum	0.6	6.2	10.4	20.8	20.8	58.9
fiberglass Reinfocre Plywood	53.1	0.0	0.0	0.0	0.0	53.1
Totals	53.7	6.2	10.4	20.8	20.8	111.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	6.2	10.4	20.8	20.8	58.9
Standard Waste Box	52.9	0.0	0.0	0.0	0.0	52.9
Totals	53.5	6.2	10.4	20.8	20.8	111.8

As-Generated Form: Stored: 53.7 Projected: 58.2 Total: 111.9

Final Waste Form: Stored: 53.5 Projected: 58.2 Total: 111.8

WASTE STREAM DESCRIPTION	Metal from gloveboxes & equipment repackaged from FRP boxes. THis waste was proced by several sites throughout LANL.
WASTE STREAM SOURCE	Glovebox and Ducting waste generated at several site throughout LANL.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	limited informantion in the database
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Projections are based on present generation rates.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LA-W062	Handling:	RH	NMVP #:	LA 116A	Stream Name:	Combustible Waste	Inventory Date:	12/31/91
Local ID:	LA-TR04	Type:	TRU	Generator Site:	LA	Final Waste Form:	Combustible	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	257.7	254.0	265.2
Aluminum-base Metal/Alloys:	0.4	0.4	0.4
Other Metals/Alloys:	18.8	18.8	89.7
Other Inorganic Material:	6.8	6.8	6.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	64.0	59.2	68.7
Rubber:	1.1	1.0	1.2
Plastics:	5.3	4.9	5.7
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

LA-116A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	2.48E+01
U-238	1.95E-06
U-236	8.88E-09
U-235	3.18E-04
U-234	2.01E-06
Sr-90	2.48E+01
Pu-242	5.00E-06
Pu-241	3.70E-01
Pu-240	1.21E-02
Pu-239	2.90E+00
Pu-238	5.34E-03
Cs-137	2.48E+01
Ba-137m	2.48E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 2 gallon	0.2	0.0	0.0	0.0	0.0	0.2
LANL RH Can	14.9	0.0	0.0	0.0	0.0	14.9
Totals	15.0	0.0	0.0	0.0	0.0	15.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	15.1	3.6	8.9	17.8	18.7	64.1
Totals	15.1	3.6	8.9	17.8	18.7	64.1

As-Generated Form: Stored: 15.0 Projected: 0.0 Total: 15.0

Final Waste Form: Stored: 15.1 Projected: 49.0 Total: 64.1

WASTE STREAM DESCRIPTION	Combustible waste - paper, rags, plastic, rubber, etc., including plastic-based and cellulose-based waste generated at the laboratory. Plastic-based waste includes, but may not be limited to, tape, polyethylene, and vinyl; gloves; plastic vials; polystyrene; Tygon tubing; polyvinyl chloride plastic; Teflon products; plexiglass; and dry box gloves (unleaded Neoprene base). Cellulose-based wste includes, but may not be limited to, rags, wood, paper, cardboard, laboratory coats and coveralls, booties and cotton gloves, and similar miscellaneous materials. The waste may also contain a small fraction of noncombustible solids (e.g., scrap metals, metal lids).
WASTE STREAM SOURCE	Combustible waste including plastic based and cellulose-based waste generated at the laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	limited information i the database
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	17 RH Canisters are generated from the repackaging of current RH containers. Projections are based on present generation rates.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LA-W063	Handling:	RH	NMVP #:	unknown	Stream Name:	Noncombustible Waste	Inventory Date:	12/31/94
Local ID:	LA-TR05	Type:	TRU	Generator Site:	LA	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5100

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	257.7	254.0	265.2
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	302.9	76.9	913.5
Other Inorganic Material:	6.8	6.8	6.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	8.42E-02
U-238	1.91E-10
U-236	2.80E-09
U-235	2.05E-08
U-234	6.56E-07
Sr-90	8.42E-02
Ru-106	4.85E-04
Pu-242	7.50E-08
Pu-241	6.68E-03
Pu-240	2.10E-04
Pu-239	4.49E-04
Pu-238	6.47E-05
Cs-137	8.99E-02
Ba-137m	8.99E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
drum / 2 gallon	0.01	0.0	0.0	0.0	0.0	0.01
LANL RH Can	50.9	0.0	0.0	0.0	0.0	50.9
Totals	51.0	0.0	0.0	0.0	0.0	51.0

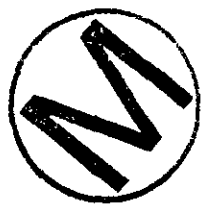
Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	50.7	0.0	0.0	7.1	8.9	66.7
Totals	50.7	0.0	0.0	7.1	8.9	66.7

As-Generated Form: Stored: 51.0 Projected: 0.0 Total: 51.0

Final Waste Form: Stored: 50.7 Projected: 16.0 Total: 66.8

WASTE STREAM DESCRIPTION	Non-combustible scrap - small tools, cans, small equipment items, broken glass, etc. This waste consists of the following subgroups: high-efficiency particulate air (HEPA) filter waste (no subgroup number); glass waste [005(LG)]; metal waste [005(LM)]; leaded rubber waste and metal waste [005(P1)]; graphite waste [005(P2G)]; and pyrochemical salt waste [005(P2S)]. Discarded HEPA filter waste is generated at TA-55-4. 005(LG) consists of glass waste and included, but may not be limited to, discarded labware, windows, and bottles. A small fraction of combustible waste, such as plastics (mainly packaging), may also be present in this waste stream. Metal waste (e.g., motors, pumps, tools, and process equipment) comprises 005(LM). A small fraction of combustible waste, such as plastics (mainly packaging), may also be present in this waste stream. 005(P1) is leaded rubber waste and metal waste. This waste stream also includes lead-lined glovebox gloves discarded along with metal waste, such as motors and tools. 005(P2G) is graphite solid waste which consists of discarded graphite mold and furnance equiptment generated during plutonium casting and other operations conducted in room 327 at TA-55-4. 005(P2S) is pyrochemical salt waste which consists of used chloride salts from pyrochemical processes such as electrorefining, molten salt extraction, salt stripping, flouride reduction, and direct oxide reduction. these processes occur at TA-55-4. A small fraction of combustible waste, such as plastics (mainly packaging), may also be present in this waste stream.
WASTE STREAM SOURCE	Non-combustible waste consisting oF HEPA filters, glass, graphite and pyrochemical salt waste.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	57 RH Canisters are generated from the repackaging of current RH containers. Projections are based on present generation rates.



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LA-W064	Handling:	RH	NMVP #:	unknown	Stream Name:	Noncombustible Hot-Cell Waste	Inventory Date:	12/31/94
Local ID:	LA-TR07	Type:	TRU	Generator Site:	LA	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	272.6	89.2	822.2
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	30.3	7.7	91.3
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	4.44E+01
U-235	3.02E-04
Sr-90	4.44E+01
Pu-239	3.17E+00
Cs-137	4.44E+01
Ba-137m	4.44E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
drum / 2 gallon	0.3	0.0	0.0	0.0	0.0	0.3
LANL RH Can	10.5	0.0	0.0	0.0	0.0	10.5
Totals	10.8	0.0	0.0	0.0	0.0	10.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	11.6	0.0	0.0	0.0	0.0	11.6
Totals	11.6	0.0	0.0	0.0	0.0	11.6

As-Generated Form: Stored: 10.8 Projected: 0.0 Total: 10.8

Final Waste Form: Stored: 11.6 Projected: 0.0 Total: 11.6

WASTE STREAM DESCRIPTION	Remote handled hot cell waste including both combustible and noncombustible waste forms. This waste is generated by MST-5 in the CRM building.
WASTE STREAM SOURCE	Contact handled hot cell waste including both combustible and noncombustible waste forms.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	from database
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	This waste stream in not currently generated and will require only that the old waste be repackaged. 13 RH Canisters are generated from the repackaging of current RH containers.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LA-W046	Handling:	CH	NMVP #:	LA 125A	Stream Name:	Mixed Scrap Metal	Inventory Date:	12/31/94
Local ID:	LA-M001	Type:	MTRU	Generator Site:	LA	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5112

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	272.6	69.2	822.2
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	30.3	7.7	91.3
Other Inorganic Material:	6.8	6.8	6.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	64.0	59.2	68.7
Rubber:	1.1	1.0	1.2
Plastics:	5.2	4.9	5.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	151.8		
Packaging Material Plastic:	4.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

LA 125A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.57E-06
Ba-137m	6.49E-04
Cf-251	7.26E-07
Cs-137	1.37E-01
Eu-155	2.78E-05
H-3	0.00E+00
Np-237	1.82E-13
Pm-147	3.94E-05
Pu-238	2.23E+00
Pu-239	2.36E-01
Am-241	3.39E-06
Pu-241	1.74E-01
Y-90	1.37E-01
Pu-244	7.33E-13
Ra-226	5.90E-07
Rh-106	5.08E-06
Ru-106	5.08E-06
Sb-125	2.81E-05
Sr-90	1.37E-01
Te-125m	1.17E-05
U-233	0.00E+00
U-234	4.53E-07
U-235	1.40E-05
U-236	8.85E-10
U-238	6.63E-07
Pu-240	1.07E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55 gallon drum	80.7	15.0	25.0	49.9	49.9	220.5
Drum/30 gallon	4.0	0.0	0.0	0.0	0.0	4.0
Fiberglass Reinfocre Plywood	2108.5	0.0	0.0	0.0	0.0	2108.5
standard Waste Box	13.2	0.0	0.0	0.0	0.0	13.2
Totals	2206.4	15.0	25.0	49.9	49.9	2346.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	84.7	15.0	25.0	49.9	49.9	224.4
Standard Waste Box	2118.7	0.0	0.0	0.0	0.0	2118.7
Totals	2203.3	15.0	25.0	49.9	49.9	2343.1

As-Generated Form: Stored: 2206.4 Projected: 139.8 Total: 2346.2

Final Waste Form: Stored: 2203.3 Projected: 139.8 Total: 2343.1

WASTE STREAM DESCRIPTION	Mixed metal scrap and incidental combustibles. This waste is generated at various TAs throughout LANL. The waste consists mostly of metals or metal equipment, either whole or sectioned, and lesser amounts of combustible components. In addition, it contains small volumes of combustibles generated during decommissioning, sectioning, and packaging. The waste forms primarily include gloveboxes, process equipment, and ductwork from facility operations. Gloveboxes may include gloves, wiring, plastic, glass windows, plastic wrapping, and lead shielding.
WASTE STREAM SOURCE	This waste is generated at various Technical Areas (TA) throughout LANL.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	19 55 gallon drums are generated from the repackaging of 30 gallon drums. Projections are based on present generation rates.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LA-W048	Handling:	CH	NMVP #:	LA 111B; 211B	Stream Name:	Solidified aqueous waste	Inventory Date:	12/31/94
Local ID:	LA-M003	Type:	MTRU	Generator Site:	LA	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3121

AS-GENERATED EPA CODES

F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	43.3	38.5	48.1
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	650.1	546.6	1093.2
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	845.9	543.4	1086.8
Soils:	0.0	0.0	0.0
Packaging Material Steel:	132.6		
Packaging Material Plastic:	34.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

LA 111B; 211B

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	2.49E-05
U-235	8.53E-08
Sr-90	2.49E-05
Pu-241	4.06E-05
Pu-239	3.36E-01
Pu-238	1.04E-01
Cs-137	2.49E-05
Am-241	3.33E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

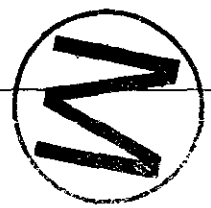
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55 gallon drum	1151.9	59.9	99.8	199.7	199.7	1711.0
Drum / 85-gallon	0.8	0.0	0.0	0.0	0.0	0.8
Other	124.7	0.0	0.0	0.0	0.0	124.7
Totals	1277.4	59.9	99.8	199.7	199.7	1836.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1152.7	59.9	99.8	199.7	199.7	1711.8
Standard Waste Box	124.7	0.0	0.0	0.0	0.0	124.7
Totals	1277.5	59.9	99.8	199.7	199.7	1836.6

As-Generated Form: Stored: 1277.4 Projected: 559.1 Total: 1836.5

Final Waste Form: Stored: 1277.5 Projected: 559.1 Total: 1836.6



WASTE STREAM DESCRIPTION	Solidified aqueous waste , is a dewatered sludge generated by the vacume filtration of solids from a pretreated aqueous waste slurry. These solids are first trapped on the surface of the filter media (diatomaceous earth). The filter medium with the entrapped filtrate is then placed in drums with dry concrete absorbent.
WASTE STREAM SOURCE	Solidified Aqueous Waste, dewatered sludge generated by the vacuum filtration of solids from the pretrated aqueous waste slurry.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	4 55 gallon drums are generated from the repackaging of 85 gallon drums. projections are based on present generation rates.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: LA-W049	Handling: CH	NMVP #: LA 116A	Stream Name: Combustible Waste			Inventory Date:	12/31/94
Local ID: LA-M004	Type: MTRU	Generator Site: LA	Final Waste Form: Combustible			Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

U080, F002, F001, D040, D019, D008, D007

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	257.7	254.0	265.2
Aluminum-base Metal/Alloys:	0.4	0.4	0.4
Other Metals/Alloys:	18.8	18.8	89.7
Other Inorganic Material:	6.8	6.8	6.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	64.0	59.2	68.7
Rubber:	1.1	1.0	1.2
Plastics:	5.3	4.9	5.7
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	*0.0*	*0.0*	*0.0*
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.1		
Packaging Material Plastic:	36.8		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

LA 116A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-238	2.71E-08
U-236	1.08E-07
U-235	8.00E-07
U-234	2.56E-05
Th	4.09E-11
Pu-244	3.71E-10
Pu-242	4.64E-04
Pu-241	1.70E+01
Pu-240	1.07E+00
Pu-239	4.47E+00
Pu-238	1.65E+01
Np-237	2.91E-06
Cm-246	9.76E-05
Am-243	3.47E-05
Am-241	6.68E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

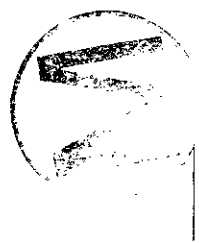
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
30 Gallon Drum	15.5	0.0	0.0	0.0	0.0	15.5
Drum / 55-gallon	232.1	74.9	124.8	249.6	249.6	931.0
Other	4.8	0.0	0.0	0.0	0.0	4.8
Totals	252.4	74.9	124.8	249.6	249.6	951.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	260.6	74.9	124.8	249.6	249.6	959.5
Standard Waste Box	5.7	0.0	0.0	0.0	0.0	5.7
Totals	266.3	74.9	124.8	249.6	249.6	965.2

As-Generated Form: Stored: 252.4 Projected: 698.9 Total: 951.3

Final Waste Form: Stored: 266.3 Projected: 698.9 Total: 965.2



WASTE STREAM DESCRIPTION	Combustible waste - paper, rags, plastic, rubber, etc., including plastic-based and cellulose-based waste generated at the laboratory. Plastic-based waste includes, but may not be limited to, tape, polyethylene, and vinyl; gloves; plastic vials; polystyrene; Tygon tubing; polyvinyl chloride plastic; Teflon products; plexiglass; and dry box gloves (unleaded Neoprene base). Cellulose-based wste includes, but may not be limited to, rags, wood, paper, cardboard, laboratory coats and coveralls, booties and cotton gloves, and similar miscellaneous materials. The waste may also contain a small fraction of noncombustible solids (e.g., scrap metals, metal lids).
WASTE STREAM SOURCE	Combustible waste including plastic based and cellulose-based waste generated at the laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	137 55 gallon drums are generated from the overpacking of 30 gallon drums. Projections are based on present generation rates.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LA-W050	Handling:	CH	NMVP #:	LA 117A; 118A	Stream Name:	Non Combustible Waste	Inventory Date:	12/31/94
Local ID:	LA-M005	Type:	MTRU	Generator Site:	LA	Final Waste Form:	Uncategorized.Metal	Waste Matrix Code:	S5100

AS-GENERATED EPA CODES

D040, D019, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	257.7	254.0	265.2
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	302.9	76.9	913.5
Other Inorganic Material:	6.8	6.8	6.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.1		
Packaging Material Plastic:	36.8		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

LA 117A; 118A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
U-238	7.08E-04
U-236	1.00E-07
U-235	7.42E-07
U-234	2.38E-05
U-232	2.33E-09
Pu-244	3.05E-09
Pu-242	3.82E-03
Pu-241	1.21E+02
Pu-240	7.16E+00
Pu-239	2.89E+01
Pu-238	3.34E+00
Np-237	1.48E-06
Cm-246	6.57E-05
Am-243	2.16E-05
Am-241	9.04E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	209.0	74.9	124.8	249.6	249.6	907.9
Other	4.0	0.0	0.0	0.0	0.0	4.0
Totals	213.1	74.9	124.8	249.6	249.6	911.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	209.0	74.9	124.8	249.6	249.6	907.9
Standard Waste Box	5.7	0.0	0.0	0.0	0.0	5.7
Totals	214.7	74.9	124.8	249.6	249.6	913.6

As-Generated Form: Stored: 213.1 Projected: 698.9 Total: 911.9

Final Waste Form: Stored: 214.7 Projected: 698.9 Total: 913.6

WASTE STREAM DESCRIPTION	Non-combustible scrap - small tools, cans, small equipment items, broken glass, etc. This waste consists of the following subgroups: high-efficiency particulate air (HEPA) filter waste (no subgroup number); glass waste [005(LG)]; metal waste [005(LM)]; leaded rubber waste and metal waste [005(P1)]; graphite waste [005(P2G)]; and pyrochemical salt waste [005(P2S)]. Discarded HEPA filter waste is generated at TA-55-4. 005(LG) consists of glass waste and included, but may not be limited to, discarded labware, windows, and bottles. A small fraction of combustible waste, such as plastics (mainly packaging), may also be present in this waste stream. Metal waste (e.g., motors, pumps, tools, and process equipment) comprises 005(LM). A small fraction of combustible waste, such as plastics (mainly packaging), may also be present in this waste stream. 005(P1) is leaded rubber waste and metal waste. This waste stream also includes lead-lined glovebox gloves discarded along with metal waste, such as motors and tools. 005(P2G) is graphite solid waste which consists of discarded graphite mold and furnance equiptment generated during plutonium casting and other operations conducted in room 327 at TA-55-4. 005(P2S) is pyrochemical salt waste which consists of used chloride salts from pyrochemical processes such as electrorefining, molten salt extraction, salt stripping, flouride reduction, and direct oxide reduction. these processes occur at TA-55-4. A small fraction of combustible waste, such as plastics (mainly packaging), may also be present in this waste stream.
WASTE STREAM SOURCE	Non-combustible waste consisting oF HEPA filters, glass, graphite and pyrochemical salt waste.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Projections are based on present generation rates.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LA-W051	Handling:	CH	NMVP #:	LA 114A; LA 126	Stream Name:	Solidified inorganic process solids	Inventory Date:	12/31/94
Local ID:	LA-M006	Type:	MTRU	Generator Site:	LA	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3000

AS-GENERATED EPA CODES

F003, F002, F001, D039, D021, D019, D008, D007, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	43.3	38.5	48.1
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	453.4	340.0	498.7
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	508.1	381.0	559.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.3		
Packaging Material Plastic:	36.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

LA 114A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.87E+01
Am-243	2.67E+01
Bk-249	2.72E-06
Cf-249	1.77E-07
Cm-246	2.46E-05
Pu-238	5.17E+00
Am-241	2.94E+01
Pu-240	1.69E+00
U-238	3.47E-04
Pu-242	3.14E-03
Pu-244	2.85E-09
Th	4.15E-06
U-233	1.71E-04
U-234	1.53E-04
U-235	1.19E-05
U-236	6.99E-08
Pu-239	6.92E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 30-gallon	27.8	0.0	0.0	0.0	0.0	27.8
Drum / 55-gallon	435.6	89.9	149.8	299.5	300.8	1275.5
Drum / 85-gallon	48.5	0.0	0.0	0.0	0.0	48.5
Other	15.8	0.0	0.0	0.0	0.0	15.8
Totals	527.7	89.9	149.8	299.5	300.8	1367.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	535.2	89.9	149.8	299.5	300.8	1375.1
Standard Waste Box	17.0	0.0	0.0	0.0	0.0	17.0
Totals	552.2	89.9	149.8	299.5	300.8	1392.1

As-Generated Form: Stored: 527.7 Projected: 839.9 Total: 1367.6

Final Waste Form: Stored: 552.2 Projected: 839.9 Total: 1392.1

WASTE STREAM DESCRIPTION	Solidified inorganic and organic process solids. This waste consists of process leached solids, ash, filter cakes, salts, metal oxides, fines, or evaporator bottoms stabilized in portland or gypsum cement. These waste streams are generated at TA-55-4.
WASTE STREAM SOURCE	Solidified inorgainc and orgainc process solids.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Drums will be repackaged to meet WIPP WAC. 246 55 gallon drums are generated from the overpacking of 30 gallon drums and 233 55 gallon drums are generated from the repackaging of 85 gallon drums. Projections are based on present generation rates.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LA-W052	Handling:	CH	NMVP #:	unknown	Stream Name:	Glovebox and Ducting Material	Inventory Date:	12/31/94
Local ID:	LA-M009	Type:	MTRU	Generator Site:	LA	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5110

AS-GENERATED EPA CODES

D008, D007

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	272.6	69.2	822.2
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	30.3	7.7	91.3
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	138.8		
Packaging Material Plastic:	24.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	5.61E-07
Pu-241	1.47E-01
Pu-240	9.72E-03
Pu-239	4.15E-02
Pu-238	1.22E-03
Am-241	3.26E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

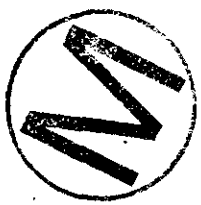
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	30.0	49.9	99.8	99.8	279.8
Fiberglass Reinfocre Plywood	142.2	0.0	0.0	0.0	0.0	142.2
Totals	142.4	30.0	49.9	99.8	99.8	422.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	30.0	49.9	99.8	99.8	279.8
Standard Waste Box	143.6	0.0	0.0	0.0	0.0	143.6
Totals	143.8	30.0	49.9	99.8	99.8	423.4

As-Generated Form: Stored: 142.4 Projected: 279.6 Total: 422.0

Final Waste Form: Stored: 143.8 Projected: 279.6 Total: 423.4



WASTE STREAM DESCRIPTION	Metal waste from gloveboxes and equipment. Gloveboxes and associated ducting, equipment and construction debri associated with the removal of glovebox operations from different location throughout the laboratory.
WASTE STREAM SOURCE	Gloveboxes and associated ducting, equipment and construction debri associated with the removal of glovebox operations
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Based on generators original disposal records, complete before RCRA requirements
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Waste accumulated from the repackaging of FRP boxes. Projections are based on present generation rates.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LA-W066	Handling:	CH	NMVP #:	N/A	Stream Name:	Metallic Waste	Inventory Date:	12/31/94
Local ID:	LA-M001	Type:	MTRU	Generator Site:	SA	Final Waste Form:	Lead/Cadmium Metal Waste	Waste Matrix Code:	S5110

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	154.0		
Packaging Material Plastic:	1.2		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-239	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / 4 ft X 4 ft X 8 ft	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9
Totals	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 1.9 Projected: 0.0 Total: 1.9

WASTE STREAM DESCRIPTION	Metal plates in 4 x 4 x 8 FRP-Wood crate.
WASTE STREAM SOURCE	Metal plate in 4 x 4 x 8 FRP-wood crate.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Waste stream from Sandia National Laboratory - Albuquerque.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	The typical waste material weights for the final waste form for this waste steam is unknown at this time. 1 SWB is generated from the repackaging of the current box container.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LA-W067	Handling:	CH	NMVP #:	None	Stream Name:	Combustible Debris	Inventory Date:	12/31/94
Local ID:	LA-T004	Type:	TRU	Generator Site:	IT	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Celluiosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

None

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-238	9.97E-08
U-233	1.17E-06
Pu-239	8.12E-02
Pu-238	6.31E-01
Cm-244	7.55E-01
Cm-243	1.86E-02
Am-241	5.58E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	8.9	0.0	0.0	0.0	0.0	8.9
Totals	8.9	0.0	0.0	0.0	0.0	8.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	8.9	0.0	0.0	0.0	0.0	8.9
Totals	8.9	0.0	0.0	0.0	0.0	8.9

As-Generated Form: Stored: 8.9 Projected: 0.0 Total: 8.9

Final Waste Form: Stored: 8.9 Projected: 0.0 Total: 8.9

WASTE STREAM DESCRIPTION	Lovelace ITRI TRU waste packaged into 90 mil lined drums.
WASTE STREAM SOURCE	Inhalation Toxicology Reasearch Institute (ITRI) TRU waste.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Typical waste material weights for final waste form are unknown for this waste stream at this time.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LA-W068	Handling:	CH	NMVP #:	N/A	Stream Name:	Non Combustible Debris	Inventory Date:	12/31/94
Local ID:	LA-T005	Type:	TRU	Generator Site:	SA	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5100

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-239	3.56E-01
Pu-238	5.00E-01
Np-237	1.20E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4

WASTE STREAM DESCRIPTION	Those in 001922, metal plates in boxes into 4 x 4 x 8 FRP-wood crate, HEPA filters
WASTE STREAM SOURCE	Sandia National Laboratory - Albuquerque generated this waste.
CURRENT CONTAINER COMMENTS	Package volume listed as 0.209
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Typical waste material weights for final waste form for this waste stream is unknown at this time.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LA-W053	Handling:	RH	NMVP #:	LA 117A; 118A	Stream Name:	Scrap Metal	Inventory Date:	12/31/94
Local ID:	LA-MR01	Type:	MTRU	Generator Site:	LA	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5112

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	272.6	69.2	822.2
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	30.3	7.7	91.3
Other Inorganic Material:	6.8	6.8	6.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	64.0	59.2	68.7
Rubber:	1.1	1.0	1.2
Plastics:	5.2	4.9	5.7
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

LA 125A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-239	7.97E+00
Co-60	1.12E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 2 gallon	0.02	0.0	0.0	0.0	0.0	0.02
LANL RH Can	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	2.7	0.0	0.0	0.0	0.0	2.7
Totals	2.7	0.0	0.0	0.0	0.0	2.7

As-Generated Form: Stored: 2.1 Projected: 0.0 Total: 2.1

Final Waste Form: Stored: 2.7 Projected: 0.0 Total: 2.7

WASTE STREAM DESCRIPTION	Mixed metal scrap and incidental combustibles. This waste is generated at various TA's throughout LANL. THe waste consists of mostly metal or metal equipmet, either whole or sectioned and lessor amounts of combustible components. In addition, it contians small volumes of combustibles generated during the decommissioning, sectioning and packaging. The waste forms primarily include gloveboxes, process equipment, and ductwork from decomissioning operations. Gloveboxes may include gloves, wiring, plastic, glass windows, plastic wrapping and lead shielding.
WASTE STREAM SOURCE	Waste comprised of mixed metal scrape and incidental combustibles.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	None
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Waste in bulk shafts will have to be removed and repackaged into RH canister. 3 RH Canisters are generated from the repackaging of current RH canisters.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: LA-W054 | Handling: RH | NMVP #: unknown | Stream Name: Non Combustible Waste | Inventory Date: 12/31/94
Local ID: LA-MR05 | Type: MTRU | Generator Site: LA | Final Waste Form: Uncategorized Metal | Waste Matrix Code: S5000

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	257.7	254.0	265.2
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	302.9	76.9	913.5
Other Inorganic Material:	6.8	6.8	6.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

LA 117A; 118A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	1.91E+02
U-235	4.85E-05
Te-125m	3.53E+00
Sr-90	1.91E+02
Sb-125	8.50E+00
Ru-106	1.53E+00
Rh-106	1.52E+00
Pu-239	9.66E+00
Pm-147	1.19E+01
Eu-155	3.90E+00
Cs-137	2.09E+02
Ba-137m	1.96E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
LANL RH Can	14.2	2.7	4.4	8.9	17.8	48.1
Totals	14.2	2.7	4.4	8.9	17.8	48.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	14.2	2.7	4.4	8.9	17.8	48.1
Totals	14.2	2.7	4.4	8.9	17.8	48.1

As-Generated Form: Stored: 14.2 Projected: 33.8 Total: 48.1

Final Waste Form: Stored: 14.2 Projected: 33.8 Total: 48.1

WASTE STREAM DESCRIPTION	Non-combustible scrap - small tools, cans, equipment items, broken glass, HEPA filters leaded gloves, graphite and pyrochemical waste generated throughout the lab.
WASTE STREAM SOURCE	Non-combustible waste including HEPA filters, glass, metal , leaded rubber gloves, graphite, and pyrochemical wastes
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	None
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Addiitonl containers will be produced as the bulk waste is retrieved and repackaged into RH canisters.

LL Lawrence Livermore National Laboratory

LAWRENCE LIVERMORE NATIONAL LABORATORY

Location and Description

The Lawrence Livermore National Laboratory (LLNL) is located approximately 64 kilometers east of San Francisco, California, at the southeast end of the Livermore Valley in Alameda County. LLNL consists of two sites: 1) Livermore Main Site, which is approximately 2.6 square kilometers in size and bordering on the eastern border of the City of Livermore, and 2) Site 300, which is a remote high-explosives testing facility approximately 24 kilometers southeast of the Main Site and 16 kilometers southwest of the Town of Tracy. Site 300 occupies 41 square kilometers in Alameda and San Joaquin Counties.

LLNL is owned by the Department of Energy (DOE) and is operated by the University of California for DOE. The Laboratory was established in 1952 to conduct research on nuclear weapons. Since then, other major programs have been added: magnetic fusion energy, laser fusion and laser isotope separation, biomedical sciences, environmental sciences, environmental restoration and waste management, and applied energy technology. These programs perform research in chemistry and materials science, computer science and technology, biomedical sciences, engineering, and physics.

The DOE Oakland Operations Office (DOE-OAK) is the field organization responsible for the implementation of Waste Management Plans at LLNL. The Hazardous Waste Management Division (HWM) is responsible for preparing those plans and for managing and processing all hazardous wastes, radioactive wastes, and mixed wastes generated at LLNL for the purposes of storage, treatment, and transportation for off-site disposal.

Mission

The Livermore site was purchased by the U.S. Navy in 1942 and was initially used as a flight training base and engine overhaul facility. The transition from Navy operations to research began in 1950, when the Atomic Energy commission authorized the construction for a materials-test accelerator at the site. The Commission established the University of California Radiation Laboratory, Livermore Site (the predecessor of the Lawrence Livermore National Laboratory) as a facility for nuclear weapons research.

The current mission of the LLNL, a multi-program laboratory, is research testing, and development focusing on national defense and security, energy, the environment, and biomedicine. The Laboratory's specific defense mission is the research, testing, and development of technologies related to nuclear weapons. Over the years, the Laboratory's overall mission has been broadened to meet national needs, such as the enhancement of economic competitiveness and science education. These objectives are expected to continue for the foreseeable future. Current major programs at LLNL include defense and related programs, laser fusion (also called inertial confinement fusion), laser isotope separation, magnetic fusion energy, biomedical and environmental research, energy and resources, and environmental restoration and waste management.

Waste Information

Processes

Generation and Handling: TRU waste, both non-mixed and mixed, is generated only at the Livermore Main Site. Defense programs at the Plutonium Facility (Building 332) and the Heavy Element Facility (Building 251) generate virtually all of LLNL's TRU waste. Building 332 is involved with plutonium chemistry and metallurgy, and Building 251 was principally involved with the handling of transuranics during tracer experiments. Building 332 is still operating; whereas Building 251 is currently undergoing cleanup, resulting in continued TRU waste generation.

By volume, approximately 95% of LLNL's TRU waste is contaminated primarily by plutonium isotopes. The remaining 5% is contaminated with isotopes of americium, neptunium, curium, and californium, which constitute about 60% of the total activity of the LLNL TRU waste inventory because of their higher specific activities.

Initial waste characterization is performed at the point of generation and is based on acceptable knowledge, mainly generator knowledge. Waste is assayed by the generators to determine the activity and radionuclide composition, though the latter is often determined by acceptable knowledge. Waste is then accepted for storage at the Hazardous Waste Management (HWM) storage facilities. Further waste characterization, such as real time radiography and drum headspace gas sapling, takes place at HWM.

Treatment: HWM stores no TRU waste known to require treatment to meet the WIPP WAC. However some may prove to require treatment such as HEPA filters, which may require immobilization of fine particles and waste that does not meet TRUPACT-II wattage limits or actual gas generation requirements for transport.

Storage: TRU wastes are stored at HWM's Buildings 625 and 612-1, located in the Area 612 Facility, and in Building 233 Facility, while awaiting the availability of disposal at WIPP. The Building 233 Facility, used to store high curie TRU waste, will be replaced by Building 280 to reduce site personnel exposure resulting from its continued operations.

Disposal: TRU waste from LLNL will be disposed of at WIPP. All currently existing waste either meets the WIPP WAC and TRUPACT-II Authorized Methods for Payload Control (TRAMPAC) criteria or will meet them after repackaging or, in a few cases, treatment.

Modifications/Assumptions/Development

Waste streams that are expected to be directly shipped to WIPP (upon WIPP–WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double– counting these streams as both "as generated currently stored" and "final form projected."

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LL-W028	Handling:	CH	NMVP #:	LL 116	Stream Name:	R&D Glovebox Waste (Form 1)	Inventory Date:	3/1/95
Local ID:	Form 1 Mixed	Type:	MTRU	Generator Site:	LL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

D040, D009, D008, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	5.0	0.0	365.0
Aluminum-base Metal/Alloys:	5.0	0.0	365.0
Other Metals/Alloys:	2.0	0.0	365.0
Other Inorganic Material:	1.0	0.0	200.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	100.0	0.0	365.0
Rubber:	5.0	0.0	200.0
Plastics:	100.0	5.0	365.0
Solidified Inorganic Material:	5.0	0.0	100.0
Solidified Organic Material:	5.0	0.0	100.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

LL 116A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.83E+01
Pu-240	9.26E-01
Pu-239	2.06E+00
Pu-238	2.46E+00
Cm-244	3.03E+00
Am-241	2.59E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55 gallon	5.4	1.9	3.1	6.2	6.0	22.7
Totals	5.4	1.9	3.1	6.2	6.0	22.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	5.4	1.9	3.1	6.2	6.0	22.7
SWB used to overpack 55 gallon drums	0.0	0.0	0.0	0.0	0.0	0.0
Totals	5.4	1.9	3.1	6.2	6.0	22.7

As-Generated Form: Stored: 5.4 Projected: 17.3 Total: 22.7

Final Waste Form: Stored: 5.4 Projected: 17.3 Total: 22.7

WASTE STREAM DESCRIPTION	The waste consists mostly of untreated dry solids such as tissues, paper, assorted plastics, glassware, ceramics, and metals. Portland cement or Aquaset is used to solidify small amounts of water-based liquids; Envirostone or Petroset is used to solidify small amounts of solvents and oil-based liquids. The composition varies considerably, but it is predominantly organics (> 90% by weight). The waste does contain small amounts of RCRA listed hazardous materials. Typical hazardous materials are leaded gloves or materials contaminated with solvents.
WASTE STREAM SOURCE	Form 1 Mixed: The waste consists of glovebox bagout waste, laboratory trash and some contaminated equipment. The waste contains small amounts of RCRA materials such as solvents or lead shielding. The waste may occasionally include small quantities of solidified liquids, but these are usually segregated as waste form 2.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Regulated contaminants reported are based on generator reports of laboratory experimental processes. This waste stream is included in LLNL's PSTP report of waste stream number LL-W018. That waste stream also included waste packages possibly, but not known to be contaminated with RCRA hazardous materials. More process knowledge and analysis will be done to further characterize those packages. Note that in this report (WTWBIR & MWIR), LL-W018 consists only of metal scrap waste, mostly in boxes, that is known to be mixed waste.
MANAGEMENT COMMENTS	Some waste may need to be repackaged in order to meet transportation (TRAMPAC) requirements for gas generation. I have not included in this waste stream any waste containing hazardous constituents that the state of California would regulate (more stringently than RCRA) if the waste were not also radioactive. California now has authority to regulate only RCRA mixed waste.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Repackaging may be required due to approximately 50% of waste containers not meeting thermal power requirements of TRAMPAC; however I don't know how much repackaging will actually be required and how many extra drums would be generated thereby. Therefore, my estimates in 8.2.15 are the same as in 8.2.14. Date of inventory and number of containers projected are the same as storage container estimates.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LL-W029	Handling:	CH	NMVP #:	LL 111	Stream Name:	Solidified Waste (Form 2)	Inventory Date:	3/1/95
Local ID:	Form 2 Non-mixed	Type:	TRU	Generator Site:	LL	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3120

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	30.0	0.0	100.0
Aluminum-base Metal/Alloys:	5.0	0.0	50.0
Other Metals/Alloys:	1.0	0.0	20.0
Other Inorganic Material:	1.0	0.0	20.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	10.0	0.0	100.0
Rubber:	1.0	0.0	20.0
Plastics:	20.0	5.0	100.0
Solidified Inorganic Material:	100.0	50.0	365.0
Solidified Organic Material:	100.0	50.0	365.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

LL 111A
LL 113A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.95E+01
Pu-240	6.32E-01
Pu-239	1.40E+00
Am-241	9.09E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	14.4	0.0	0.0	0.0	5.8	20.2
Totals	14.4	0.0	0.0	0.0	5.8	20.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	14.4	0.6	1.0	2.1	2.1	20.2
Totals	14.4	0.6	1.0	2.1	2.1	20.2

As-Generated Form: Stored: 14.4 Projected: 5.8 Total: 20.2

Final Waste Form: Stored: 14.4 Projected: 5.8 Total: 20.2

WASTE STREAM DESCRIPTION	50 to 90% of this waste matrix consists of liquids solidified in 1 to 5 gallon plastic containers using Portland cement or Aquaset for the water based liquids and Envirostone or Petroset for the oil-based liquids. The remainder consists of glovebox waste similar to form 1 waste. The waste does not contain any RCRA-listed hazardous materials.
WASTE STREAM SOURCE	Form 2 Non-mixed: More than 50 volume percent of this waste consists of solidified water-based or oil-based liquids or solidified fine particles. The remaining waste consists of glovebox bagout waste, laboratory trash and some contaminated equipment.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Some waste may need to be repackaged in order to meet transportation (TRAMPAC) requirements for gas generation. This waste stream may contain waste containing hazardous constituents that the state of California would regulate (more stringently than RCRA) if the waste were not also radioactive. California now has authority to regulate only RCRA mixed waste.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Date of inventory and number of containers projected are the same as storage container estimates.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LL-W030	Handling:	CH	NMVP #:	LL 116	Stream Name:	R&D Glovebox Waste (Form 1)	Inventory Date:	1/1/95
Local ID:	Form 1 Non-mixed	Type:	TRU	Generator Site:	LL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	5.0	0.0	365.0
Aluminum-base Metal/Alloys:	5.0	0.0	365.0
Other Metals/Alloys:	2.0	0.0	365.0
Other Inorganic Material:	1.0	0.0	200.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	100.0	0.0	365.0
Rubber:	5.0	0.0	200.0
Plastics:	100.0	3.0	365.0
Solidified Inorganic Material:	5.0	0.0	100.0
Solidified Organic Material:	5.0	0.0	100.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	163.2		
Packaging Material Plastic:	22.3		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

LL 116A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	3.17E+01
Pu-240	1.03E+00
Pu-239	2.50E+00
Pu-238	3.24E-01
Am-241	1.79E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	40.4	0.0	0.0	0.0	291.2	331.6
SWB used to overpack 55 gallon drums	7.6	22.7	37.8	75.6	75.6	219.2
Totals	47.9	22.7	37.8	75.6	366.8	550.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	40.4	31.2	52.0	104.0	104.0	331.6
SWB used to overpack 55 gallon drums	7.6	22.7	37.8	75.6	75.6	219.2
Totals	47.9	53.9	89.8	179.6	179.6	550.8

As-Generated Form: Stored: 47.9 Projected: 502.9 Total: 550.8

Final Waste Form: Stored: 47.9 Projected: 502.9 Total: 550.8

WASTE STREAM DESCRIPTION	The waste consists mostly of untreated dry solids such as tissues, paper, assorted plastics, glassware, ceramics, and metals. Portland cement or Aquaset is used to solidify small amounts of water-based liquids; Envirostone or Petroset is used to solidify small amounts of solvents and oil-based liquids. The composition varies considerably, but it is predominantly organics (> 90% by weight). The waste does not contain any RCRA listed hazardous materials.
WASTE STREAM SOURCE	Form 1 Non-Mixed: The waste consists of glovebox bagout waste, laboratory trash and some contaminated equipment. The waste may occasionally include small quantities of solidified liquids, but these are usually segregated as waste form 2.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Some waste may need to be repackaged in order to meet transportation (TRAMPAC) requirements for gas generation. This waste stream may contain waste containing hazardous constituents that the state of California would regulate (more stringently than RCRA) if the waste were not also radioactive. California now has authority to regulate only RCRA mixed waste.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Date of inventory and number of containers projected are the same as storage container estimates.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LL-W031	Handling:	CH	NMVP #:	LL 125	Stream Name:	Combined metal scrap & incidental combust (Form 3)	Inventory Date:	1/1/95
Local ID:	Form 3 Non-mixed	Type:	TRU	Generator Site:	LL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5420

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	20.0	0.0	30.0
Aluminum-base Metal/Alloys:	3.0	0.0	30.0
Other Metals/Alloys:	1.0	0.0	30.0
Other Inorganic Material:	1.0	0.0	5.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	1.0	0.0	5.0
Rubber:	1.0	0.0	5.0
Plastics:	1.0	0.0	10.0
Solidified Inorganic Material:	0.0	0.0	5.0
Solidified Organic Material:	0.0	0.0	5.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	154.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No,

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

LL 125A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.45E+00
Pu-240	8.02E-02
Pu-239	9.92E-02
Pu-238	7.02E-02
Am-241	1.35E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Capital Indus. Box #1 /	7.6	0.0	0.0	0.0	0.0	7.6
Capital Indus. Box #2 /	60.0	0.0	0.0	0.0	0.0	60.0
Capital Indus. Box #3 /	6.4	0.0	0.0	0.0	0.0	6.4
Capital Indus. Box #4 /	7.5	0.0	0.0	0.0	0.0	7.5
Rogers Chem. Box #1 /	4.2	0.0	0.0	0.0	0.0	4.2
Rogers Chem. Box #2 /	5.6	0.0	0.0	0.0	0.0	5.6
Rogers Chem. Box #3 /	5.8	0.0	0.0	0.0	0.0	5.8
Rogers Chem. Box #4 /	7.6	0.0	0.0	0.0	0.0	7.6
Rogers Chem. Box #5 /	24.9	0.0	0.0	0.0	0.0	24.9
Rogers Chem. Box #6 /	8.9	0.0	0.0	0.0	0.0	8.9
Standard Waste Box /	3.8	22.7	18.9	37.8	37.8	121.0
Totals	142.4	22.7	18.9	37.8	37.8	259.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	143.6	22.7	18.9	37.8	37.8	260.8
Totals	143.6	22.7	18.9	37.8	37.8	260.8

As-Generated Form: Stored: 142.4 Projected: 117.2 Total: 259.6

Final Waste Form: Stored: 143.6 Projected: 117.2 Total: 260.8

WASTE STREAM DESCRIPTION	The waste consists mostly of metal scrap such as decommissioned gloveboxes, hoods and other large equipment as well as laboratory trash. Typically it will contain metal components, glassware, ceramics, plastics, paper, and wood. It will be mostly inorganic materials, but can vary widely. This waste does not contain RCRA listed hazardous materials.
WASTE STREAM SOURCE	Form 3 non-mixed: This waste consists of contaminated equipment and laboratory trash too big to fit in 55 gallon drums. This waste does not contain RCRA hazardous materials.
CURRENT CONTAINER COMMENTS	Contains nuclides submitted in MWIR/BIR, Rev. 1 data call in 1994, copy enclosed.
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Some waste may need to be repackaged in order to meet transportation (TRAMPAC) requirements for gas generation. This waste stream may contain waste containing hazardous constituents that the state of California would regulate (more stringently than RCRA) if the waste were not also radioactive. California now has authority to regulate only RCRA mixed waste.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Average radionuclide content of final containers (SWBs) will depend on content of existing boxes to be repackaged and existing SWBs plus content of SWBs to be generated. Date of inventory and number of containers projected are the same as storage container estimates.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LL-W032	Handling:	CH	NMVP #:	LL 124	Stream Name:	Pyrochemical salt waste (Form 4)	Inventory Date:	1/1/95
Local ID:	Form 4 Non-mixed	Type:	TRU	Generator Site:	LL	Final Waste Form:	Salt Waste	Waste Matrix Code:	S3140

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	20.0	0.0	100.0
Aluminum-base Metal/Alloys:	5.0	0.0	80.0
Other Metals/Alloys:	2.0	0.0	50.0
Other Inorganic Material:	290.0	100.0	365.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	2.0	0.0	50.0
Rubber:	1.0	0.0	20.0
Plastics:	20.0	5.0	100.0
Solidified Inorganic Material:	1.0	0.0	10.0
Solidified Organic Material:	1.0	0.0	10.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

LL 124A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	5.10E+01
Pu-240	1.66E+00
Pu-239	2.06E+00
Pu-238	4.74E-01
Am-241	2.81E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.6	0.4	0.5	1.0	1.0	3.6
Totals	0.6	0.4	0.5	1.0	1.0	3.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.4	0.5	1.0	1.0	3.6
Totals	0.6	0.4	0.5	1.0	1.0	3.6

As-Generated Form: Stored: 0.6 Projected: 3.0 Total: 3.6

Final Waste Form: Stored: 0.6 Projected: 3.0 Total: 3.6

WASTE STREAM DESCRIPTION	The waste consists primarily of used chloride and fluoride salts from pyrochemical processes such as electrorefining, molten salt extraction, and direct oxide reduction. There may also be up to 20% heterogeneous organic glovebox bagout waste packaged with the salt waste. This waste does not contain any RCRA listed hazardous materials.
WASTE STREAM SOURCE	Form 4 non-mixed: The waste consists of used chloride and fluoride salts from pyrochemical processes such as electrorefining, molten salt extraction, and direct oxide reduction.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Some waste may need to be repackaged in order to meet transportation (TRAMPAC) requirements for gas generation. This waste stream may contain waste containing hazardous constituents that the state of California would regulate (more stringently than RCRA) if the waste were not also radioactive. California now has authority to regulate only RCRA mixed waste.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Date of inventory and number of containers projected are the same as storage container estimates.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LL-W033	Handling:	CH	NMVP #:	N/A	Stream Name:	HEPA filters (Form 5)	Inventory Date:	1/1/95
Local ID:	Form 5 Non-mixed	Type:	TRU	Generator Site:	LL	Final Waste Form:	Filter	Waste Matrix Code:	S5410

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	66.3	0.0	132.6
Aluminum-base Metal/Alloys:	20.7	0.0	41.3
Other Metals/Alloys:	10.0	0.0	20.0
Other Inorganic Material:	20.7	0.0	41.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	65.7	0.0	126.1
Rubber:	10.0	0.0	20.0
Plastics:	20.7	4.3	47.8
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	151.0		
Packaging Material Plastic:	4.8		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Yes

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	5.64E+00
Pu-240	1.84E-01
Pu-239	2.28E-01
Pu-238	1.68E-01
Cm-244	4.14E+00
Am-241	5.09E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Capital Indus. Box #2 /	16.0	0.0	0.0	0.0	0.0	16.0
Drum / 55 gallon	0.4	0.6	1.0	2.1	2.1	6.2
Standard Waste Box /	0.0	2.8	4.7	9.4	9.4	26.5
Totals	16.4	3.5	5.8	11.5	11.5	48.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.6	1.0	2.1	2.1	6.2
Standard Waste Box	15.1	2.8	4.7	9.4	9.4	41.6
Totals	15.5	3.5	5.8	11.5	11.5	47.8

As-Generated Form: Stored: 16.4 Projected: 32.3 Total: 48.7

Final Waste Form: Stored: 15.5 Projected: 32.3 Total: 47.8

WASTE STREAM DESCRIPTION	The waste matrix is mostly wood framed HEPA filters although some small metal cased HEPA filters are also included. Some of the filters contain asbestos.
WASTE STREAM SOURCE	Form 5 non-mixed: HEPA filters
CURRENT CONTAINER COMMENTS	Contains nuclides submitted in MWIR/BIR, Rev. 1 data call in 1994, copy enclosed.
EPA COMMENTS	Generator knowledge about old HEPA filters is largely lacking; however some of these filters are known to contain asbestos.
MANAGEMENT COMMENTS	Some waste may need to be repackaged in order to meet transportation (TRAMPAC) requirements for gas generation. This waste stream may contain waste containing hazardous constituents that the state of California would regulate (more stringently than RCRA) if the waste were not also radioactive. California now has authority to regulate only RCRA mixed waste. Also, HEPA filters, if found to fail fine particles requirements, would require immobilization of fine particles.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Date of inventory and number of containers projected are the same as 55-gallon drum storage estimates.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LL-W018	Handling:	CH	NMVP #:	LL 125	Stream Name:	Combined metal scrap & incidental combust.(Form 3)	Inventory Date:	3/1/95
Local ID:	Form 3 Mixed	Type:	MTRU	Generator Site:	LL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5420

AS-GENERATED EPA CODES

F002, D040, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	150.0	0.0	800.0
Aluminum-base Metal/Alloys:	20.0	0.0	800.0
Other Metals/Alloys:	10.0	0.0	800.0
Other Inorganic Material:	5.0	0.0	800.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	5.0	0.0	500.0
Rubber:	2.0	0.0	100.0
Plastics:	20.0	5.0	200.0
Solidified Inorganic Material:	2.0	0.0	300.0
Solidified Organic Material:	2.0	0.0	300.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	154.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

LL 125A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	5.94E-01
Pu-240	2.03E-02
Pu-239	8.78E-03
Am-241	1.04E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box /	1.9	3.8	3.8	9.5	9.5	28.5
Totals	1.9	3.8	3.8	9.5	9.5	28.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	1.9	3.8	3.8	9.4	9.4	28.3
Totals	1.9	3.8	3.8	9.4	9.4	28.3

As-Generated Form: Stored: 1.9 Projected: 26.6 Total: 28.5

Final Waste Form: Stored: 1.9 Projected: 26.5 Total: 28.3

WASTE STREAM DESCRIPTION	The waste is potentially radioactive inorganic scrap metal generated from on-site laboratory research and maintenance, including laboratory clean up. Includes lead bricks and metal shavings. These materials may contain transuranic activity (80.6 lbs. in 55-gal. drum) Waste is used and discarded metal parts generated from on-site research and development activities.
WASTE STREAM SOURCE	Form 3 mixed: This waste consists of contaminated equipment and laboratory trash too big to fit in 55 gallon drums. This waste does contain RCRA hazardous materials. Inorganic scrap metal generated from on-site laboratory research and maintenance, including laboratory clean up.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Regulated contaminants reported are based on generator reports of laboratory experimental processes. This waste stream is included in LLNL's PSTP report of waste stream number LL-W018. That waste stream also included waste packages possibly, but not known to be contaminated with RCRA hazardous materials. More process knowledge and analysis will be done to further characterize those packages. Note that in this report (WTWBIR & MWIR), LL-W018 consists only of metal scrap waste, mostly in boxes, that is known to be mixed waste.
MANAGEMENT COMMENTS	Some waste may need to be repackaged in order to meet transportation (TRAMPAC) requirements for gas generation. I have not included in this waste stream any waste containing hazardous constituents that the state of California would regulate (more stringently than RCRA) if the waste were not also radioactive. California now has authority to regulate only RCRA mixed waste.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Date of inventory and number of containers projected are the same as storage container estimates.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	LL-W019	Handling:	CH	NMVP #:	LL 111	Stream Name:	Solidified Waste (Form 2)	Inventory Date:	3/1/95
Local ID:	Form 2 Mixed	Type:	MTRU	Generator Site:	LL	Final Waste Form:	Solidified Organics	Waste Matrix Code:	S3220

AS-GENERATED EPA CODES

F002, D040

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	30.0	0.0	100.0
Aluminum-base Metal/Alloys:	5.0	0.0	50.0
Other Metals/Alloys:	1.0	0.0	20.0
Other Inorganic Material:	1.0	0.0	20.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	10.0	0.0	100.0
Rubber:	1.0	0.0	20.0
Plastics:	20.0	5.0	100.0
Solidified Inorganic Material:	100.0	50.0	365.0
Solidified Organic Material:	100.0	50.0	365.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

LL 111A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.01E+01
Pu-240	6.63E-01
Pu-239	7.89E-01
Am-241	1.24E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	1.0	0.0	0.0	0.0	5.8	6.9
Totals	1.0	0.0	0.0	0.0	5.8	6.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.0	0.6	1.0	2.1	2.1	6.9
Totals	1.0	0.6	1.0	2.1	2.1	6.9

As-Generated Form: Stored: 1.0 Projected: 5.8 Total: 6.9

Final Waste Form: Stored: 1.0 Projected: 5.8 Total: 6.9

WASTE STREAM DESCRIPTION	The waste is radioactive halogenated solvents generated from on-site cleaning of tanks and equipment and operating of research laboratories and machining shops. Waste consists of TCE and TCA and may contain transuranic activity (0.6 lbs. in a 55-gallon drum). Waste is generated from the on-site cleaning of tanks and equipment used in changing R & D activities.
WASTE STREAM SOURCE	Form 2 Mixed: More than 50 volume percent of this waste consists of solidified water-based or oil-based liquids or solidified fine particles. The remaining waste consists of glovebox bagout waste, laboratory trash and some contaminated equipment.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Regulated contaminants reported are based on generator reports of laboratory experimental processes. This waste stream is included in LLNL's PSTP report of waste stream number LL-W018. That waste stream also included waste packages possibly, but not known to be contaminated with RCRA hazardous materials. More process knowledge and analysis will be done to further characterize those packages. Note that in this report (WTWBIR & MWIR), LL-W018 consists only of metal scrap waste, mostly in boxes, that is known to be mixed waste.
MANAGEMENT COMMENTS	Some waste may need to be repackaged in order to meet transportation (TRAMPAC) requirements for gas generation. I have not included in this waste stream any waste containing hazardous constituents that the state of California would regulate (more stringently than RCRA) if the waste were not also radioactive. California now has authority to regulate only RCRA mixed waste.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Date of inventory and number of containers projected are the same as storage container estimates.

MC U.S. Army Material Command

U.S. ARMY MATERIAL COMMAND

Location and description

The U.S. Army Material Command (MC) is located at Rock Island, Illinois, near Davenport, Iowa. MC is responsible for coordinating logistical demands for the various programmatic functions of the U.S. Army, including research and development of weapons.

Mission

MC is responsible for disposal of radioactive waste resulting from U.S. Army applications.

Waste Information

Processes

Currently the Army possesses packaged americium and plutonium sources in man-portable containers. Some of the sources are mixed with beryllium, potentially rendering the material mixed waste. Most of this waste is packaged and ready for shipment in trucks.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	MC-W001	Handling:	CH	NMVP #:	N/A	Stream Name:	USAMC TRU Waste	Inventory Date:	1/1/95
Local ID:		Type:	TRU	Generator Site:	MC	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.11E-01
Pu-239	2.43E-02
Am-241	6.21E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	0.0
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.5	0.0	0.0	0.0	0.0	2.5
Totals	2.5	0.0	0.0	0.0	0.0	2.5

As-Generated Form: Stored: 0.0 Projected: 0.0 Total: 0.0

Final Waste Form: Stored: 2.5 Projected: 0.0 Total: 2.5

WASTE STREAM DESCRIPTION	Army sources
WASTE STREAM SOURCE	Discarded sources.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

MD **Mound Plant**

MOUND PLANT

Location and Description

Mound (MD) is located within the southern city limits of Miamisburg in Montgomery County in southwestern Ohio. The plant occupies 306 acres of land overlooking Miamisburg and the Great Miami River. The metropolitan area of Dayton is located 10 miles north-northeast of Mound.

The DOE Dayton Area Office was established as part of the Albuquerque Operations Office in 1947.

The Mound Plant (MD) is one of the principal DOE sites. The facility was utilized as an integrated research, development, and production facility to perform work in support of DOE weapons and energy programs. Mound manufactured non-nuclear and tritium-containing components for nuclear weapons. These components included detonators, timers, transducers, firing sets, pellets, and unique production testers. Activities also included recovery and purification of tritium wastes. Earlier activities included manufacturing of polonium-210 and plutonium-238 radioisotopic heat sources.

Mission

Mound originated as a technical organization in 1943 and was responsible for determining the chemical and metallurgical properties of plutonium for the Manhattan Project. Permanent facilities were first constructed in 1947 and occupied in 1948. The plant was assigned new production and development functions in 1955.

In 1993, the Secretary of Energy announced that the Defense Program Mission was to be ended at Mound. Mound's new mission is the safe shutdown of Defense Programs and commercialization of some of the area offices.

Waste Information

Processes

TRU waste may be generated by the Decontamination and Decommissioning (D&D) operations in the Plutonium Processing Building and the Research Building.

Large quantities of the line-generated solid wastes, including gloveboxes, fume hoods, piping, tools and other non-burnables, as well as rags, chemwipes, and other combustible waste was and will be generated by the Pu Processing and Research Buildings D&D Project.

TRU alpha wastes are generated from decontamination operations in the Pu Processing Areas.

Other major D&D efforts included the removal of underground piping which formerly transmitted Pu-contaminated liquid waste from the processing area to the waste water treatment facility.

Modifications/Assumptions/Development

Waste streams that are expected to be directly shipped to WIPP (upon WIPP–WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double– counting these streams as both "as generated currently stored" and "final form projected."

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	MD-M001	Handling:	CH	NMVP #:	N/A	Stream Name:	Asbestos Debris	Inventory Date:	5/5/95
Local ID:	N/A	Type:	TRU	Generator Site:	MD	Final Waste Form:	Filter	Waste Matrix Code:	S5125

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Yes

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-239	2.98E-02
Pu-238	1.63E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form; Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form; Stored: 0.4 Projected: 0.0 Total: 0.4

WASTE STREAM DESCRIPTION	Assorted asbestos and other filter media. Predominantly asbestos.
WASTE STREAM SOURCE	805, Asbestos and other filters utilized in first stage hood line ventilation exhaust.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Since the majority of questions were answered as unknown our confidence level is LOW.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	This is not a MTRU waste stream. It was incorrectly assigned as MTRU in previous reports and is being officially corrected in this report.
FINAL FORM COMMENTS	Assumption is that shipping and storage containers are the same.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	MD-T001	Handling:	CH	NMVP #:	N/A	Stream Name:	Cement Forms	Inventory Date:	5/5/95
Local ID:	N/A	Type:	TRU	Generator Site:	MD	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	Z1110

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	1143.0	964.0	1204.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-238	1.20E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

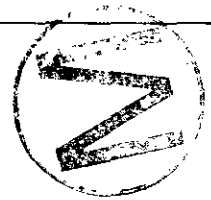
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.2	0.0	0.0	0.0	0.0	4.2
Totals	4.2	0.0	0.0	0.0	0.0	4.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.2	0.0	0.0	0.0	0.0	4.2
Totals	4.2	0.0	0.0	0.0	0.0	4.2

As-Generated Form: Stored: 4.2 Projected: 0.0 Total: 4.2

Final Waste Form: Stored: 4.2 Projected: 0.0 Total: 4.2



WASTE STREAM DESCRIPTION	WD TRU sludge, batch #194. Sludge wastewater mixed with cement to form a cement monolith inside a 55 gallon drum.
WASTE STREAM SOURCE	836, Solidified TRU Sludge (20% solids and 80% water) solidified with portland cement in WD Building. Solids included carbon and calcium.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Confidence is LOW due to unknowns
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	MD-T003	Handling:	CH	NMVP #:	N/A	Stream Name:	Contaminated soil	Inventory Date:	5/5/95
Local ID:	N/A	Type:	TRU	Generator Site:	MD	Final Waste Form:	Soils	Waste Matrix Code:	S4100

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	891.0	603.0	1315.0
Packaging Material Steel:	154.0		
Packaging Material Plastic:	1.2		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-238	2.63E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

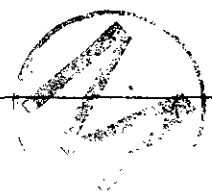
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / Type 004	46.3	0.0	0.0	0.0	0.0	46.3
Box / Type 005	66.4	0.0	0.0	0.0	0.0	66.4
Box / Type 008	3.2	0.0	0.0	0.0	0.0	3.2
Totals	115.8	0.0	0.0	0.0	0.0	115.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	146.9	0.0	0.0	0.0	0.0	146.9
Totals	146.9	0.0	0.0	0.0	0.0	146.9

As-Generated Form: Stored: 115.8 Projected: 0.0 Total: 115.8

Final Waste Form: Stored: 146.9 Projected: 0.0 Total: 146.9



WASTE STREAM DESCRIPTION	SM building and hillside hot spot #3 excavation
WASTE STREAM SOURCE	842DD000 TRU soil. Soil from SM building and hillside remediation of the Waste Transfer system (WTS).
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Confidence level based on the number of unknowns reported.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	62 SWB will be potentially required based on volume alone. This is a soil waste stream and based on the weight it would have been impossible to fill the storage containers completely full, therefore 62 is a worst case scerino. Another issue is the possible additional waste created by disposing of the storage containers if they are TRU also.

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	MD-T005	Handling:	CH	NMVP #:	N/A	Stream Name:	Contaminated soils with debris	Inventory Date:	5/5/95
Local ID:	N/A	Type:	TRU	Generator Site:	MD	Final Waste Form:	Soils	Waste Matrix Code:	S4200

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	632.0	566.0	1293.0
Packaging Material Steel:	154.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Pu-238	1.45E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / Type 004	25.3	0.0	0.0	0.0	0.0	25.3
Box / Type 005	4.7	0.0	0.0	0.0	0.0	4.7
Totals	30.0	0.0	0.0	0.0	0.0	30.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	30.2	0.0	0.0	0.0	0.0	30.2
Totals	30.2	0.0	0.0	0.0	0.0	30.2

As-Generated Form: Stored: 30.0 Projected: 0.0 Total: 30.0

Final Waste Form: Stored: 30.2 Projected: 0.0 Total: 30.2

WASTE STREAM DESCRIPTION	SM-10 & Hillside hot spot #3 excavation.
WASTE STREAM SOURCE	842, TRU soil with rock debris. Soil and rock from SM building and hillside remediation.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Confidence level is LOW based on the number of unknowns
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	MD-T006	Handling:	CH	NMVP #:	N/A	Stream Name:	Metal debris w/o lead or cadmium	Inventory Date:	5/5/95
Local ID:	N/A	Type:	TRU	Generator Site:	MD	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	154.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-238	5.36E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

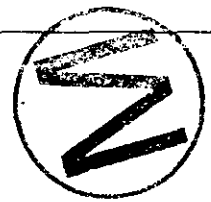
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / Type 003	7.0	0.0	0.0	0.0	0.0	7.0
Box / Type 004	46.3	0.0	0.0	0.0	0.0	46.3
Box / Type 008	6.3	0.0	0.0	0.0	0.0	6.3
Totals	59.6	0.0	0.0	0.0	0.0	59.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	58.6	0.0	0.0	0.0	0.0	58.6
Totals	58.6	0.0	0.0	0.0	0.0	58.6

As-Generated Form: Stored: 59.6 Projected: 0.0 Total: 59.6

Final Waste Form: Stored: 58.6 Projected: 0.0 Total: 58.6



WASTE STREAM DESCRIPTION	Metal debris from D&D of Bldgs. 38-10 & 13, SM-10 & 25, R-120 & 149 and Waste Transfer system (WTS).
WASTE STREAM SOURCE	824, D&D metal debris. Waste Transfer System (WTS) piping consisting of steel pipe withj some type of plastic lining. Steel tank from Building 41. Floor drains and piping from SM, PP and R Buildings.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Confidence level is low based on the number of unknowns
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Repackaging into SWB would require 31 containers based on volume only. Additonal waste from the empty containers would also be genereated.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	MD-T007	Handling:	CH	NMVP #:	N/A	Stream Name:	Uncategorized metal debris.	Inventory Date:	5/5/95
Local ID:	N/A	Type:	TRU	Generator Site:	MD	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5119

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	149.2		
Packaging Material Plastic:	7.7		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-239	3.96E-01
Pu-238	1.29E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	5.0	0.0	0.0	0.0	0.0	5.0
Box / Type 003	2.3	0.0	0.0	0.0	0.0	2.3
Box / Type 004	12.6	0.0	0.0	0.0	0.0	12.6
Box / Type 008	3.2	0.0	0.0	0.0	0.0	3.2
Totals	23.1	0.0	0.0	0.0	0.0	23.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	5.0	0.0	0.0	0.0	0.0	5.0
Standard Waste Box	18.9	0.0	0.0	0.0	0.0	18.9
Totals	23.9	0.0	0.0	0.0	0.0	23.9

As-Generated Form: Stored: 23.1 Projected: 0.0 Total: 23.1

Final Waste Form: Stored: 23.9 Projected: 0.0 Total: 23.9

WASTE STREAM DESCRIPTION	Miscellaneous equipment - hood line trash.
WASTE STREAM SOURCE	825 TRU metal debris. Inline Noncombustible waste removed from hood lines.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Confidence level is LOW due to the number of unknowns.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Assumption is that current drum is WIPP acceptable.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	MD-T008	Handling:	CH	NMVP #:	N/A	Stream Name:	Uncategorized plastics/rubber debris	Inventory Date:	5/5/95
Local ID:	N/A	Type:	TRU	Generator Site:	MD	Final Waste Form:	Combustible	Waste Matrix Code:	S5319

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-239	2.98E-02
Pu-238	2.72E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.7	0.0	0.0	0.0	0.0	3.7
Totals	3.7	0.0	0.0	0.0	0.0	3.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.7	0.0	0.0	0.0	0.0	3.7
Totals	3.7	0.0	0.0	0.0	0.0	3.7

As-Generated Form: Stored: 3.7 Projected: 0.0 Total: 3.7

Final Waste Form: Stored: 3.7 Projected: 0.0 Total: 3.7

WASTE STREAM DESCRIPTION	Plastic and rubber debris from Bldg. 38, Room 149
WASTE STREAM SOURCE	804, Uncategorized plastics/rubber debris. Combustible waste removed from hood lines.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	LOW confidence level based on the number of unknowns.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	MD-T009	Handling:	CH	NMVP #:	N/A	Stream Name:	Unknown/Other Organic Debris	Inventory Date:	5/5/95
Local ID:	N/A	Type:	TRU	Generator Site:	MD	Final Waste Form:	Combustible	Waste Matrix Code:	S5390

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-239	8.37E+00
Pu-238	3.10E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	Uncategorized combustible debris
WASTE STREAM SOURCE	801+804, Uncategorized combustible debris.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Confidence level is LOW due to the number of unknowns
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	MD-T010	Handling:	CH	NMVP #:	N/A	Stream Name:	Composite filters	Inventory Date:	5/5/95
Local ID:	N/A	Type:	TRU	Generator Site:	MD	Final Waste Form:	Filter	Waste Matrix Code:	S5410

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-239	1.49E-02
Pu-238	8.17E-01
Np-237	8.17E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4

WASTE STREAM DESCRIPTION	Filters from Bldgs. 38, room 113.
WASTE STREAM SOURCE	825, Glass + metal filters, cans-glass. First stage filters for hood line exhaust ventilation.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Confidence level based on the number of unknowns
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	MD-T012	Handling:	CH	NMVP #:	N/A	Stream Name:	Uncategorized heterogeneous debris	Inventory Date:	5/5/95
Local ID:	N/A	Type:	TRU	Generator Site:	MD	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5490

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-239	1.01E+01
Pu-238	1.95E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 0.6 Projected: 0.0 Total: 0.6

WASTE STREAM DESCRIPTION	Bldg. 38, room 113, R, room 140
WASTE STREAM SOURCE	825 Metal, glass, asbestos filters
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Confidence level LOW due to the number of unknowns
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	MD-W002	Handling:	CH	NMVP #:	N/A	Stream Name:	Absorbed Aqueous Liquids	Inventory Date:	5/5/95
Local ID:	N/A	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3113

AS-GENERATED EPA CODES

D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Analytical Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-239	2.32E-02
Pu-238	7.24E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.9	0.0	0.0	0.0	0.0	1.9
Totals	1.9	0.0	0.0	0.0	0.0	1.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.9	0.0	0.0	0.0	0.0	1.9
Totals	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated Form: Stored: 1.9 Projected: 0.0 Total: 1.9

Final Waste Form: Stored: 1.9 Projected: 0.0 Total: 1.9

WASTE STREAM DESCRIPTION	This waste is corrosive TRU solutions (primarily nitric acid) absorbed into an inorganic particulate absorbent. There is no free liquid, therefore this waste stream does not currently meet the D002 definition and not mixed. It will remain classified as MTRU until proven othewise by a WIPP acceptable method and under control of a QAPjP.
WASTE STREAM SOURCE	This process and analytical waste was generated from Pu-238 operations. 833 Corrosives - TRU Acidic and Basic waste absorbed on FLORCO
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The D002 code is maintained due to the question of whether this waste remains corrsive.
MANAGEMENT COMMENTS	Building 23 Mixed waste storage facility.
ACCEPTANCE COMMENTS	Plutonium processing and analysis. The entire inventory is indicated as not subject to the LDR storage prohibition as it was stored before the LDR effective date.
FINAL FORM COMMENTS	The shipping and storage containers are assumed to be the same.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	MD-W003	Handling:	CH	NMVP #:	N/A	Stream Name:	Leaded Gloves/Aprons	Inventory Date:	5/5/95
Local ID:	N/A	Type:	MTRU	Generator Site:	MD	Final Waste Form:	Combustible	Waste Matrix Code:	S5311

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-239	6.16E+00
Pu-238	8.89E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.7	0.0	0.0	0.0	0.0	1.7
Totals	1.7	0.0	0.0	0.0	0.0	1.7

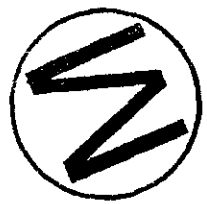
Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.7	0.0	0.0	0.0	0.0	1.7
Totals	1.7	0.0	0.0	0.0	0.0	1.7

As-Generated Form: Stored: 1.7 Projected: 0.0 Total: 1.7

Final Waste Form: Stored: 1.7 Projected: 0.0 Total: 1.7

WASTE STREAM DESCRIPTION	Lead loaded drygloves removed from gloveboxes during decommissioning operations.
WASTE STREAM SOURCE	Generated from decommissioning of gloveboxes.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Confidence level is based on the number of unknowns.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	New leaded gloves are no longer introduced into the Mound Facility which is why the "expected generation termination date" is indicated as 1/1/93. However, it is possible additional leaded gloves (transuranic) at Mound which have not yet been declared waste may be generated. Although the possibility exists for additional waste, it is impossible to predict when and what the quantities would be.
FINAL FORM COMMENTS	Storage and shipping containers were assumed to be the same



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	MD-W017	Handling:	CH	NMVP #:	N/A	Stream Name:	Paper/Cloth Debris	Inventory Date:	5/5/95
Local ID:	N/A	Type:	TRU	Generator Site:	MD	Final Waste Form:	Combustible	Waste Matrix Code:	S5330

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Pu-239	3.86E-01
Pu-238	2.66E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

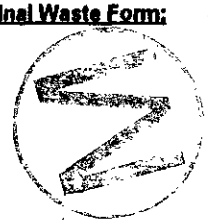
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.5	0.0	0.0	0.0	0.0	1.5
Totals	1.5	0.0	0.0	0.0	0.0	1.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.5	0.0	0.0	0.0	0.0	1.5
Totals	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated Form: Stored: 1.5 Projected: 0.0 Total: 1.5

Final Waste Form: Stored: 1.5 Projected: 0.0 Total: 1.5



WASTE STREAM DESCRIPTION	Paper and cloth waste removed from hood lines as a result of routine production operations in Building 38.
WASTE STREAM SOURCE	Paper and Cloth from PP Building
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Confidence level is based on the number of unknowns
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Assuming that the storage and shipping container are the same.

UNIVERSITY OF MISSOURI RESEARCH REACTOR

Location and Description

The University of Missouri-Columbia (MU) is located in Columbia, Missouri at the University's Research Park. MU maintains a 10 mW research reactor licensed by the NRC. The Missouri University Research Reactor is one of only a few high-quality research reactors in the United States. The University is contracted by Rockwell International to conduct experiments to separate radioactive actinide elements from PUREX spent fuel for DOE.

Mission

MU conducts a wide variety of nuclear energy experiments. Research at MU has focused on many areas, including studies of the effects of trace elements on human health; studies of the basic wave nature of particles using neutron interferometry, development of radioisotopes for human therapy, and development of the TRUMP-S process to separate TRU materials from nuclear waste (PUREX).

Waste Information

Processes

MU currently has several grams of TRU materials provided by the DOE for experiments on the TRUMP-S Program. TRU waste is generated as a part of normal program operations. Additional TRU waste is expected at the conclusion of the program when the facility is decontaminated and decommissioned. Management of the TRU waste generated from the TRUMP-S experiments conducted at MU is the responsibility of the DOE program office overseeing nuclear energy research.

Modifications/Assumptions/Development

MU reported radionuclides in Curies per gram. The TWBIR team calculated the radionuclides in terms of Ci/m^3 using the final waste form volumes reported by MU.

Waste streams that are expected to be directly shipped to WIPP (upon WIPP–WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double– counting these streams as both "as generated currently stored" and "final form projected."

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	MU-W002	Handling:	CH	NMVP #:	NA	Stream Name:	Heterogeneous Debris	Inventory Date:	12/31/94
Local ID:		Type:	MTRU	Generator Site:	MU	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

D011, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	11.3	0.0	20.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	25.0	0.0	60.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	2.5	0.0	10.0
Rubber:	25.0	0.0	50.0
Plastics:	37.5	0.0	80.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-238	1.65E-07
Pu-239	3.62E-02
Np-237	3.23E-04
Am-241	1.50E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

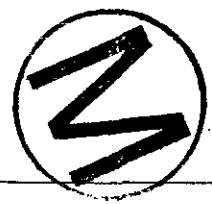
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.6	0.2	0.0	0.0	1.0
Totals	0.2	0.6	0.2	0.0	0.0	1.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.6	0.2	0.0	0.0	1.0
Totals	0.2	0.6	0.2	0.0	0.0	1.0

As-Generated Form: Stored: 0.2 Projected: 0.8 Total: 1.0

Final Waste Form: Stored: 0.2 Projected: 0.8 Total: 1.0



WASTE STREAM DESCRIPTION

MTRU Heterogeneous Debris. The radioactive wastes generated on the project will come first from normal operations and second from the D&D of the facility at the end of the project. Radioactive wastes from normal operation will consist of the following:

- o HEPA filters from the glove box
- o HEPA filters from offgas and room filtration systems
- o paper wipes from periodic cleaning of the glove boxes
- o used sample bottles
- o damaged glove box gloves
- o used crucibles, tubes, and wires

WASTE STREAM SOURCE

The radioactive wastes generated on the project will come first fro n normal operations and second from the D&D of the facility at the end of the project. Radioactive wastes from normal operation will consist of the following:

- o HEPA filters from the glove box
- o HEPA filters from offgas and room filtration systems
- o paper wipes from periodic cleaning of the glove boxes
- o used sample bottles
- o damaged glove box gloves
- o used crucibles, tubes, and wires $ $ Mixed TRU Waste

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

Waste has not yet been characterized

MANAGEMENT COMMENTS

MURR, costar tower 5th level in containment.

ACCEPTANCE COMMENTS

□□GENERAAREA: MURR Alpha Room□□GENOPERATI: The TRUMP-S test program uses three glove boxes located in the Alpha Lab: the argon box, the air box, and the ICP box. The three boxes are equipped with various pieces of test equipment.

The argon box is used to conduct the electrochemical experiments that are the objective if the program. Actinide metals are unpacked in this box, subdivided, and repackaged. Chloride salts of the actinides are prepared here. Samples of the materials used in the experiments are obtained in the argon box for analysis. The argon box is frequently cleaned using paper wipes, which are packaged in small waste cans for disposal.

The air box is used to prepare aqueous samples for analysis in the ICP box. These samples are later prepared for recovery of the actinides by evaporating the water. Tantalum materials that have been used in the argon box are cleaned in the air box for later reuse in the electrochemical tests. The air box is also frequently cleaned using paper wipes and these are likewise placed in waste cans for disposal.

The ICP box is used to analyze the chemical composition of various aqueous samples. The nebulizer of the ICP unit is located within the ICP box to contain the analysis samples. The atmosphere within the ICP box is air.

Materials used in the actinide tests: Test materials, along with paper wipes and waste cans for cleanup, are passed into the argon box through a transfer port from the Alpha lab. The test materials include the following items:

- o Actinide and rare earth elements as metals and chlorides
- o Cadmium as both metal and chloride
- o Tantalum and alumina crucibles
- o Tantalum, iron, and silver wire

- o Chloride salts (Ag, Li, K)
- o Alumina and Pyrex tubing
- o Tantalum foil
- o Sample bottles
- o NAA samples returned for use

Some solid samples of test materials are removed from the argon box through the neutron activation analysis (NAA) sample station for neutron activation or gamma spectrometer analysis. All other exits from the argon box are to the air box. Samples for analysis in the ICP, crucibles containing mixtures of actinides along with salts and cadmium, used tantalum materials, broken or used Pyrex and alumina, wire (Ta, Fe, and Ag), damaged glove box gloves, and packaged wastes (paper wipes) are all transferred to the air box through an interconnecting transfer port. Tantalum materials are normally cleaned and reused in the electrochemistry tests a number of times before they are disposed of as waste.

Aqueous chemicals, water, and beakers are transferred into the air box from the Alpha Lab for preparing and handling aqueous samples. These samples are analyzed in the ICP box and then returned to the air box. The air box is also cleaned frequently with paper wipes, and these are packaged in waste cans for disposal. Materials that are removed during test operations from the air box are either actinide materials that are being sent to storage, or wastes that are placed in 55-gal drums. Actinide materials consist of original actinide metal, crucibles containing actinides, salt, and cadmium metal, sample residue (oxides and chlorides remaining from aqueous samples), and NAA samples. Actinide materials are routinely removed from the glove boxes and returned to storage in sealed storage containers. The wastes removed from the air box will be used HEPA filters and refuse packaged in waste cans. Items removed from the air box are sealed in plastic bags as they exit the transfer port into the Alpha Lab.□□RECLASS_CO: classification of MURR waste is not complete□□CATION: NA□□WASTE_PACK: 55-gallon drums

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FINAL FORM COMMENTS N/A

NEVADA TEST SITE

Location and Description

The Nevada Test Site (NTS) is located in Ny County approximately 105 kilometers northwest of Las Vegas, Nevada. The 3497-square-kilometer site is adjacent to the Nellis Air Force Ranges. The eight offsite test areas include the Central NTS and Shoal Test Area, Nevada; Amchitka Island, Alaska; the Rio Blanco and Rulison gas stimulation test sites, Colorado; the Gasbuggy gas stimulation and Gnome-Coach test sites, New Mexico; and Salmon test site, Mississippi. The Nevada Operations Office (NV) is located in Las Vegas with the NTS Office in Mercury, Nevada.

The NTS was selected as the continental proving ground for field testing nuclear weapons in 1950 with the first nuclear test occurring in January 1951. When the decision was made to conduct tests year-round, NV was created in 1962. Although some off-site tests were conducted, all tests since 1973 have been conducted at NTS.

Mission

The original mission of the NTS was field testing of nuclear weapons in support of the nuclear weapons laboratory and weapons-effects testing in support of the Defense Advanced Research Projects Agency and the Defense Nuclear Agency (DNA).

Today's mission of NTS is to maintain the readiness mode for the resumption of nuclear testing, remediate contaminated areas, and to serve as the largest disposal site for DOE and DOD defense-related low-level radioactive waste.

Waste Information

Processes

The NTS serves as a major disposal facility for low level waste and has inactive disposal facilities that were used for TRU waste. The NTS accepted TRU waste from the Lawrence Livermore National Laboratory (LLNL), for the purpose of storage from 1974 until 1990. This waste is considered mixed waste and is stored in a sprung steel building on a RCRA compliant curbed asphalt pad enclosed by a security fence. In keeping with the agreement made with the State of Nevada, the NTS will no longer accept TRU waste for storage.

Modifications/Assumptions/Development

NT reported radionuclides in nanocuries per gram. The TWBIR team calculated the radionuclides in terms of Ci/m^3 using the final waste form volumes reported by NT.

Waste streams that are expected to be directly shipped to WIPP (upon WIPP–WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double– counting these streams as both "as generated currently stored" and "final form projected."

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: NT-W001	Handling: CH	NMVP #: NT 111A;116A;2	Stream Name: Heterogeneous Debris, Uncategorized		Inventory Date: 4/30/95
Local ID: None	Type: MTRU	Generator Site: LL	Final Waste Form: Heterogeneous		Waste Matrix Code: S5490

AS-GENERATED EPA CODES

P015, F003, F002, F001, D011, D008, D007, D006, D003, D002, D001, CA352, CA181

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	72.2	6.1	422.5
Aluminum-base Metal/Alloys:	12.3	0.0	399.0
Other Metals/Alloys:	5.8	0.0	383.4
Other Inorganic Material:	4.8	0.4	304.9
Vitrified:	0.0	0.0	0.0
Cellulosics:	52.5	0.0	315.8
Rubber:	3.8	0.0	121.7
Plastics:	50.1	3.7	234.3
Solidified Inorganic Material:	11.8	4.4	155.7
Solidified Organic Material:	11.8	4.4	155.7
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	141.1		
Packaging Material Plastic:	28.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

NT 111A; 116A; 211A;225A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
MFP	3.39E-02
Am-243	1.99E-03
C-14	4.09E-07
Cf-249	1.89E-05
Cf-250	5.29E-04
Cf-252	8.94E-03
Cm-243	1.10E-06
Cm-244	6.78E-03
Cm-248	1.05E-11
Cs-137	6.53E-05
Depleted U	1.97E-07
Eu-152	3.33E-03
Eu-154	1.99E-03
Am-241	4.91E-01
Kr-85	6.53E-04
Pu-244	1.63E-09
U-235	1.71E-07
U-234	8.15E-06
U-233	2.94E-03
U-232	2.95E-05
H-3	2.04E-04
Ra-226	4.09E-04
U-238	5.45E-08
Pu-242	1.42E-04
Pu-241	5.61E-01
Pu-240	3.04E-02
Pu-239	4.53E+00
Pu-238	2.41E-01
Pa-231	8.15E-07
Np-237	7.83E-06
Sr-90	2.23E-07

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

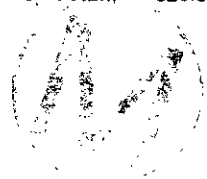
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55 gallon	343.0	0.0	0.0	2.4	2.8	348.2
Drum / 85 gallon	0.3	0.0	0.0	0.3	0.0	0.6
Nonstandard Box	271.4	0.0	0.0	0.0	0.0	271.4
Totals	614.8	0.0	0.0	2.8	2.8	620.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	343.0	0.0	0.0	2.4	2.8	348.2
Standard Waste Box	270.3	0.0	0.0	3.8	0.0	274.0
Totals	613.3	0.0	0.0	6.2	2.8	622.2

As-Generated Form: Stored: 614.8 Projected: 5.5 Total: 620.3

Final Waste Form: Stored: 613.3 Projected: 9.0 Total: 622.2



WASTE STREAM DESCRIPTION

This waste stream consists of glovebox parts, laboratory trash, contaminated equipment and solidified sludges. Real time radiography has been performed on the waste to verify that there are no free liquids present, with the exception of liquid in aerosol cans, which, when treated will be eliminated from this waste stream. Most of the waste is contact-handled TRU waste; 3 drums are remote-handled.* The waste stream was generated at the Lawrence Livermore National Laboratory, Livermore, CA (LLNL) and shipped to the NTS from 1974 until 1990. The waste was declared as potentially mixed TRU waste by the generator in April, 1991.
*Due to recent storage reconfigurations and surveys, only three of the 4 previously reported packages are considered remote-handled.

WASTE STREAM SOURCE

NTS STORED, TRU WASTE FROM LLNL
This waste stream, consisting of glovebox parts, laboratory trash, contaminated equipment, and solidified sludges, was generated from operations activities conducted at LLNL Buildings 251, 332, and 419. Actual activities and processes conducted to generate this waste stream are unknown.

CURRENT CONTAINER COMMENTS

Currently, all 55-gal. drums are overpacked within 85-gal. vented drums.
Vented drum of decon debris
58 total; 70x69x81 (bxwxh) max. dimensions

EPA COMMENTS

Regulated contaminant information is based on process knowledge. No sampling of waste constituents has been conducted to date.

MANAGEMENT COMMENTS

The Nevada Test Site (NTS) is located about 105 km (65 mi) northwest of Las Vegas, and occupies 3,497 km2 (1,350 mi2) of federally owned land in southeastern Nevada's Nye County. The Area 5 Radioactive Waste Management Site (RWMS) is located in Frenchman Flat within the southeast corner of the NTS, approximately 15 miles north of Mercury, Nevada and 80 miles northwest of Las Vegas, Nevada. The developed portion of the Area 5 RWMS occupies 37 hectares (ha) (92 acres) in the southeast corner of the 296 ha (732 acres) designated area of NTS Area 5. Building 5-24, a 21,470 square-foot fabric-covered structure, is located within the 92-acre RWMS on the TRU Waste Storage Pad, an asphalt pad comprising an area of 0.829 ha (2.05 acres) constructed to meet RCRA standards.

ACCEPTANCE COMMENTS

The majority of this waste inventory was packaged before RCRA characterization requirements were imposed. Lawrence Livermore National Laboratory (LLNL) (the generator) declared the inventory to be "mixed" in April 1991. EPA Codes were estimated on the basis of TRU waste assessments and other information provided by the generator. The actual waste matrix and contaminant parameters will be further defined during future waste characterization and certification activities for the express purpose of certifying the waste to meet TRUPACT transport and WIPP disposal requirements.**This TRU waste inventory originated from LLNL/ Bldg. 251, LLNL/Bldg. 332, and LLNL/Bldg. 419; contact: Kem Heinebach, LLNL, (510) 422-4572□. LLNL/Bldg. 251 generated TRU waste containing debris potentially contaminated with the following RCRA solvents and acids: nitric acid dried on Kimwipes (ignitable) (EPA code D001), and RCRA metals cadmium in "silver" solder (EPA code D006) and lead (EPA code D008).**LLNL/Bldg. 332 generated TRU waste debris potentially contaminated with: carbon tetrachloride (CC1-4) on Kimwipes (F001), ethyl alcohol (D001), freon TF on cotton wipes and Kimwipes (F001), methanol on Kimwipes (F003), nitric acid (D002, and if >45%, an oxidizer (D001), nitric acid on Kimwipes (ignitable) (D001), trichloroethylene (TCE) (F001), varnish and paints (D001); RCRA metals calcium (D003), and lead (D008); and the following CA hazardous wastes: beryllium, sometimes as flakes, (CA code 181), cerium (CA 181), copper (CA 181), copper shavings (CA 181), gallium (CA 181), Invoil-42 (an oil, potentially CA hazardous) (CA 352), kerosene (an oil, potentially CA hazardous) (CA 352), magnesium powder (CA 181), oil and oily rags (CA 352), and yttrium oxide (CA 181).
LLNL /Bldg. 419: TRU waste debris potentially contaminated with: trichloroethylene (TCE) (F001), and CA hazardous waste oil (California code 352).**Past assay efforts resulted in undetermined final numbers on gram content; re-assay to be conducted.**It has been established that the bulk of the TRU mixed wastes stored at the Area 5 RWMS were placed into storage prior to the effective date of the LDR prohibitions applicable to solvent waste and that any attempt to move the wastes to another facility would trigger LDR requirements. Mixed wastes stored prior to the effective date of applicable LDR requirements "are not subject to the LDR storage prohibition as long as they are not removed from storage or otherwise actively managed while in storage." (57 Federal Register 22024, 22041 [05-26-92]).**The management of the Area 5 RWMS TRU mixed waste inventory is governed by a Settlement Agreement between the state of Nevada and DOE/NV. The TRU mixed waste shall remain in storage until such time that EPA issues a no-migration variance to WIPP, after the test phase, or when suitable treatment capacity is developed with which to treat the wastes. The TRU mixed waste is contained in 1636 0.208 m3 (55-gallon) steel drums and 58 steel boxes of various sizes. The 55-gallon drums are overpacked in 0.321 m3 (85-gallon) DOT Type A drums which are vented with carbon-composite filters. The inventory also includes one 0.321 m3 (85-gallon) drum which is vented with a carbon-composite filter. The containers are stored on pallets inside the TRU Cover Building 5-24. The drums are triple-stacked and boxes double-stacked. Three-foot aisleways between container rows provide for routine RCRA inspections, and 4-foot fire aisles are located at all four personnel exits.** Lead may have been used as shielding inside

some containers. Liquids are solidified in individual one-gallon, metal paint can containers which are then placed in 55-gallon drums, although several containers were found to contain small amounts of free liquids (via RTR). Boxed waste includes decommissioned glove boxes, hoods, and large pieces of contaminated equipment. Combustibles (tissues, paper, assorted plastics, and bagging) fill the void spaces in both boxes and drums. Most boxes have permanent skids, but all are stored on pallets. A standard eight-ton forklift is used to shuttle the boxes, and a drum-handler is attached to the fork tines to shuttle drums.

FINAL FORM COMMENTS

Included in current storage numbers is the assumption that two boxes containing 12 drums will be transferred into 12 0.208m3 drums (55 gallon drums). Projections include 25 55 gallon drums from decon activities.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	NT-W021	Handling:	CH	NMVP #:	Unknown	Stream Name:	V3XA Spheres	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	LL	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	544.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	154.0		
Packaging Material Plastic:	1.2		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

None

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-242	1.15E-04
Pu-241	3.19E+01
Pu-240	1.30E+00
Pu-239	5.69E+00
Pu-238	1.92E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Sphere/3-ft. dia X 4-ft. dia Stainless Steel	0.9	0.0	0.0	0.0	0.0	0.9
Totals	0.9	0.0	0.0	0.0	0.0	0.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	5.7	0.0	0.0	0.0	0.0	5.7
Totals	5.7	0.0	0.0	0.0	0.0	5.7

As-Generated Form: Stored: 0.9 Projected: 0.0 Total: 0.9

Final Waste Form: Stored: 5.7 Projected: 0.0 Total: 5.7

WASTE STREAM DESCRIPTION	The two steel vessels are 1-inch thick by 3-feet diameter, weighing about 2700 lbs. each. The vessels contain heterogeneous mixtures of the following materials: Plutonium, D-38, Beryllium metal, Completely burned high explosive, Stainless steel, Brass, Polystyrene foam, Aluminum, Coke (degassed coal), Water absorbed by the coke, Steel, Glass, Epoxy resin, Thermalite (aerated cement block), Plaster, Hortag (fly-ash and clay), Wood, and Krypton-85 tracer gas for leak detection. The UK has had similar vessels in storage for over ten years, but none containing plutonium have ever been opened. Vessels containing D-38 only have been opened, with small amounts of water vapor and some loose debris found inside. The bulk of the materials were found to be trapped within the thick coke layer lining the inner surface of the vessel. No more wastes of this type are planned to be generated.
WASTE STREAM SOURCE	This waste stream was received for storage at the NTS Area 5 RWMS TRU Waste Storage Pad in 1994, and was generated by LLNL, Livermore, CA. This is a "one-time" generated TRU waste stream, resulting from joint US/UK tests conducted in the United Kingdom. Each vessel is a 3-foot diameter sphere, weighing about 2,700 pounds. High explosives were detonated inside the vessel chamber, resulting in a concrete-like, heterogeneous substance made up of plutonium, depleted uranium, beryllium, pulverized coke, glass, wood, steel, and aluminum debris.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	This waste stream is not "mixed."
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	Previously, LLNL had inquired about having an exemption from WIPP WAC issued for this waste stream. Per correspondence from Arlen Hunt (ALO/WIPP) to Daniel Nakahara (DOE/SAN) [memo TSIT:HJD 90-0049, "TRU Material Above WIPP-WAC Safety Limits", March 6, 1990], the Waste Acceptance Criteria Certification Committee could not determine "if these containers will ever qualify for disposal at WIPP." Until such time that an alternative disposal site is made available, or exemption from the WIPP-WAC is received, this waste stream will remain in safe storage at the NTS.
FINAL FORM COMMENTS	Internal volume of SWB is assumed to be 1.89 cubic meters; total waste stream volume (external) estimated at 5.676 cu. m., divided by 1.89 = 3 SWBs. Plastic bagging would be used to contain any contamination. This also assumes, although highly unlikely, that the vessels are size-reduced to fit inside SWBs, as opposed to being shipped within TDOPs. Considering FGE within each vessel, two TDOPs could probably be used for shipping this waste stream to WIPP.

OR Oak Ridge Reservation

OAK RIDGE NATIONAL LABORATORY

Location and Description

The Oak Ridge National Laboratory (ORNL) is located 10 miles southwest of downtown Oak Ridge, Tennessee, and 32 kilometers northwest of Knoxville, Tennessee. The ORNL site occupies about 10,000 acres of the 35,252 acre Oak Ridge Reservation. The site covers portions of both Melton and Bethel Valleys. Approximately 1100 acres within the Melton and Bethel Valleys have been developed.

The ORNL is under the auspices of the DOE/Oak Ridge Operations Office which supports production of nuclear weapon components for national defense programs, production of enriched uranium for defense requirements and for fuelling nuclear power plants, the processing of uranium feed materials for DOE's plutonium production reactors, and extensive energy research and development in all DOE program areas.

Mission

ORNL was established in 1942 in support of the Manhattan Project. The primary mission of ORNL has been to carry out applied research and engineering development in fission, fusion, and other energy technologies, and to conduct scientific research in basic physical and life sciences. Relevant missions include isotope production and processing, research and development, waste management, and D&D of operating units; and advanced reactor development work. In addition, ORNL conducts several activities for DOE-Defense Programs. The principal nonweapons-related activities include nuclear power development and magnetic fusion research. ORNL conducts activities in support of DOE's Transuranic Element Program, the Californium and Loan Program, and the Mark 42 Program.

During the wartime Manhattan Project, the town of Oak Ridge, Tennessee, was wholly-owned and controlled by the Government.

Waste Information

Processes

The Y-12 Plant was built originally as part of the Manhattan Project to separate and concentrate uranium-235 isotopes by the electromagnetic process. With the successful demonstration of the more efficient gaseous diffusion process, the plant was modified to carry out other weapons production operations. The major operations at the Y-12 Plant were production of weapon components, uranium, uranium alloys, and lithium compounds that were shipped to other sites.

The K-25 Site (formerly the Oak Ridge Gaseous Diffusion Plant) was a production and development facility for uranium enrichment using a gaseous diffusion process. Production operations were shut down in 1985. The current mission of K-25 involves environmental restoration, decontamination and decommissioning, and waste management. DOE's TSCA incinerator is located at the K-25 site.

Waste streams at ORNL tend to be different from K-25 and Y-12 waste streams in that they are smaller in volume, constantly changing, and could contain virtually any radionuclide, depending on the research activity that generated the waste stream. In these respects, they are probably similar to the waste streams generated at all the national labs. Of the three main facilities at ORR, only ORNL generates TRU waste (from research reactors), although K-25 and Y-12 waste streams may contain concentrations of transuranic isotopes below 100 nanocuries per gram.

In contrast, the waste generating processes at K-25 and Y-12 tend to be stable and have their own signature isotopes. Waste streams at K-25 may often be contaminated with technicium, either depleted or enriched uranium, and trace concentrations of transuranics. Y-12 waste streams are also often contaminated with depleted or enriched uranium. Some waste streams at Y-12 are derived from classified activities; data about these waste streams are also classified.

Most of the TRU waste residing at ORNL has been generated as a result of the Californium and U-233 Program or has come from off-site waste generators. Additional TRU waste is produced by the ORNL Analytical Chemistry facilities as a result of sample analysis. Some TRU waste may also be generated by the K-25 Site during decontamination and decommissioning activities.

RH-TRU solid waste consists primarily of miscellaneous hot-cell waste (e.g., paper, glass, plastic tubing, shoe covers, wipes, etc.), HEPA filters from off-gas cleanup systems, and discarded equipment (e.g., chemical processing racks, vacuum pumps, etc.). The unshielded individual waste packages within the casks typically have radiation levels that measure between 10 and 2000 rem/h; the majority are below 100 rem/h. RCRA materials in RH TRU solid waste primarily consist of lead that was used as shielding, and limited amounts of mercury from discarded mercury-vapor lamps. The RH TRU solid waste is typically contained in cylindrical concrete casks 1.4 m (4.5 ft) in diameter by 2.3 m (7.5 ft) high. Wall thickness of the casks are currently either 15.2 or 30.5 cm (6 or 12 in) thick, depending on the radiation level of the contents.

The majority of RH TRU sludges as ORNL are the result of waste accumulation from the past 50 years of ORNL liquid waste operations. These sludges are residuals from sluicing operations conducted in the early 1980s when the majority of the inactive gunite tank contents were removed for hydrofracture disposal at ORNL. RH TRU sludges continue to accumulate due to on-going R&D programs which produce transuranium isotopes for medical, industrial, and government applications. The surface equivalent dose rates of these sludges are generally near 10 rem/h (unshielded).

Most CH TRU waste is generated at ORNL by activities related to isotope research and production, including analytical support. The waste results primarily form hot cell and glovebox operations, and most of it can be accommodated in 55-gallon drums.

CH TRU waste at ORNL consists of general laboratory wastes such as various glassware, plastic ware, empty reagent bottles, vials, and other containers, cloth and paper wipes, rubber and cotton gloves, contaminated clothing, gaskets and other rubber parts, metal parts, tools and machinery, electrical equipment, ion-exchange resins, ventilation filters, and other general waste generated during the operation of gloveboxes and hot cells. A given container of waste may contain several different TRU radionuclides.

One of ORNL's offsite generators is the Paducah Gaseous Diffusion Plant (PA) in Kentucky serves as the first stage in the DOE uranium enrichment complex. TRU isotopes have been separated from the uranium feed and collected at the bottom of the cascade. Some drums containing TRU waste have been shipped to ORNL for storage while the remaining TRU waste containers continue to be stored at PA.

Nuclear Fuels Services, Inc. (NFS) at Erwin, Tennessee, sent 800+ drums of CH TRU waste to ORNL.

Other off-site generators include the New Brunswick Laboratory, West Valley Decommissioning Project, and the Knolls Atomic Power Laboratory.

Modifications/Assumptions/Development

ORNL reported radionuclides in total Curies. The TWBIR team calculated the radionuclides in terms of Ci/m^3 using the final waste form volumes reported by OR.

ORNL's waste material parameters Solidified, Inorganic Matrix and Cement (Solidified) for waste streams OR-W042 and OR-W046 were calculated based on the proposed amount of cement that will be used to solidify these waste streams.

Waste streams that are expected to be directly shipped to WIPP (upon WIPP-WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double- counting these streams as both "as generated currently stored" and "final form projected."

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	OR-W040	Handling:	RH	NMVP #:	N/A	Stream Name:	RH-TRU Heterogeneous Debris	Inventory Date:	12/31/94
Local ID:	2308	Type:	MTRU	Generator Site:	OR	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5490

AS-GENERATED EPA CODES

D011, D009, D008, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	96.2	0.0	1716.4
Aluminum-base Metal/Alloys:	0.0	0.0	1.6
Other Metals/Alloys:	0.0	0.0	21.3
Other Inorganic Material:	2.4	0.0	24.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	80.9	0.0	184.6
Rubber:	7.4	0.0	17.9
Plastics:	64.9	0.0	149.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	3.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Co-60	3.80E-03
Am-241	5.31E-03
Am-243	1.08E-07
Bk-249	1.08E-07
Cf-249	3.66E-06
Cf-252	2.83E-04
Ac-227	1.08E-06
Cm-244	1.88E-03
UNID	4.87E-05
Cs-137	1.97E-03
Pu-239	2.06E-03
Ra-223	1.08E-06
Sr-90	1.20E-02
Th-232	1.08E-06
U-233	4.32E-04
U-235	1.53E-07
U-238	5.51E-08
Cm-242	7.59E-05

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box /Metal	0.1	0.0	0.0	0.0	0.0	0.1
Cask /Concrete	646.3	0.0	0.0	0.0	0.0	646.3
Drum / 55-gallon	0.0	18.7	31.2	62.4	62.4	174.7
Other	0.1	0.0	0.0	0.0	0.0	0.1
Totals	646.5	18.7	31.2	62.4	62.4	821.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	922.0	17.8	44.5	89.0	89.0	1162.3
Totals	922.0	17.8	44.5	89.0	89.0	1162.3

As-Generated Form: Stored: 646.5 Projected: 174.7 Total: 821.2

Final Waste Form: Stored: 922.0 Projected: 240.3 Total: 1162.3

WASTE STREAM DESCRIPTION	This waste stream consists of RH-TRU Waste which is classified as contaminated equipment, decontaminated debris or dry solids. The physical form is solid. This waste is categorized as heterogeneous debris (matrix code 5490).
WASTE STREAM SOURCE	Waste from Glove Box Operations, Laboratory Operations, Hot Cell Clean Up Operations, Equipment Repair and Maintenance, Sources.
CURRENT CONTAINER COMMENTS	Waste will have to be repackaged into acceptable containers for shipment and disposal. This is forecasted waste yet to be generated
EPA COMMENTS	No characterization existed for legacy waste. Limited data is available from process log sheets. No data is obtainable from Waste Examination and Assay Facility due to the level of radiation in RH contaminated materials. EPA codes are based on CH-TRU data and the similarity due to the generating processes.
MANAGEMENT COMMENTS	The waste currently stored in metal boxes and concrete casks will have to be packaged in acceptable containers.
ACCEPTANCE COMMENTS	Bldg 7823A is not designated as a TRU storage facility and has been designated as a LLW storage facility. Waste stored in this building is being assessed whether it is TRU or LLW. One container in this waste stream will be evaluated as possibly being Spent Nuclear Fuel. Bldgs 7878 and 7879 are suppose to contain CH TRU waste only. Evaluation of the waste stored in these buildings will determine the disposition the waste containers.
FINAL FORM COMMENTS	No prior estimates on weight distribution or Pu-239 FGEs were given for this waste stream because no 55-gallon drums are currently in the inventory. The weight estimates assumed 33% of the inventory distributed between <350 lbs, >= 350 <500 lbs, and > 500 lbs. The projected inventory includes 840 55-gallon containers of newly generated waste only and does not include the existing total inventory volume (640 m3) which does not include any 55-gallon drums. Therefore, the entire current inventory will have to be repackaged into 55-gallon drums. The value reported in section 8.2.15.1.11 reflects the number of RH canisters projected which includes 3 55-gallon drums in each canister. 1036 RH Canisters will be required to repack currently stored waste. Projections are for newly generated waste only.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	OR-W086	Handling:	CH	NMVP #:	N/A	Stream Name:	CH-TRU Heterogeneous Debris (nondefense, nonmixed)	Inventory Date:	12/31/94
Local ID:	T2301	Type:	TRU	Generator Site:	NU	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5490

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	96.2	0.0	1716.4
Aluminum-base Metal/Alloys:	0.0	0.0	1.6
Other Metals/Alloys:	0.0	0.0	21.3
Other Inorganic Material:	2.4	0.0	24.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	80.9	0.0	184.8
Rubber:	7.4	0.0	17.9
Plastics:	64.9	0.0	149.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	3.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos:

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
UNID	0.00E+00
U-238	1.20E-07
U-235	7.23E-09
U-234	1.15E-04
U-233	1.87E-06
Pu-242	2.10E-07
Pu-241	3.77E-02
Pu-240	2.25E-03
Pu-239	4.50E-03
Pu-238	6.24E-04
Am-241	1.68E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	170.8	0.0	0.0	0.0	0.0	170.8
Totals	170.8	0.0	0.0	0.0	0.0	170.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	170.8	0.0	0.0	0.0	0.0	170.8
Totals	170.8	0.0	0.0	0.0	0.0	170.8

As-Generated Form: Stored: 170.8 Projected: 0.0 Total: 170.8

Final Waste Form: Stored: 170.8 Projected: 0.0 Total: 170.8

WASTE STREAM DESCRIPTION	This waste stream consists of CH-TRU Waste which is classified as contaminated equipment, decontaminated debris or dry solids which were generated from nondefense programs. The physical form is solid and is not believed to contain hazardous constituents. It has not been determined if these wastes have been examined by WEAF. This waste is categorized as heterogeneous debris (matrix code 5490).
WASTE STREAM SOURCE	Sludge collected from several sources for temporary storage and prior to mixing with grout for underground injection.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	No treatment is expected for final disposal. It may be required that the waste stream be repackaged for further characterization and certification activities.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Calculation of the Pu-239 FGE was not completed. ORNL is attempting to obtain a copy of the TRAMPAC to obtain the required constants and equations needed for the calculations.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	OR-W042	Handling:	RH	NMVP #:	N/A	Stream Name:	RH-TRU Sludge (inactive tank)	Inventory Date:	12/31/94
Local ID:	2311	Type:	MTRU	Generator Site:	OR	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3121

AS-GENERATED EPA CODES

D009, D008, D007, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	396.6	173.1	528.9
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	396.6	173.1	528.9
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Eu-154	3.16E-03
C-14	3.32E-05
Cf-252	2.06E-03
Cm-244	8.79E-03
Co-60	7.78E-03
Cs-134	3.81E-05
Am-241	2.27E-04
Eu-152	3.51E-03
U-238	1.94E-04
Eu-155	2.85E-04
H-3	1.42E-05
Pu-238	1.91E-03
Pu-239	9.99E-04
Sr-90	1.19E+00
Th-232	5.64E-06
U-233	6.47E-04
Cs-137	4.15E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Single shell tank / Gunite	123.0	0.0	0.0	0.0	0.0	123.0
Totals	123.0	0.0	0.0	0.0	0.0	123.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	175.3	0.0	0.0	0.0	0.0	175.3
Totals	175.3	0.0	0.0	0.0	0.0	175.3

As-Generated Form: Stored: 123.0 Projected: 0.0 Total: 123.0

Final Waste Form: Stored: 175.3 Projected: 0.0 Total: 175.3

WASTE STREAM DESCRIPTION	The waste stream is comprised of RH-TRU sludge which has settled and separated from wastewater that has been stored in large underground storage tanks. The waste is a product of past operations at ORNL involving various nuclear research and radioisotope fabrication processes and is currently undergoing RI/FS as part of a CERCLA program involving these tanks and contents. This waste is under the responsibility of DOE EM-40 and as such are not technically a RCRA mixed waste. However, since the waste has been reported in the ORR LDR FFCA, it is included in the MWIR. However, it is anticipated that the reporting responsibility will be turned over to the appropriate EM-40 organization.
WASTE STREAM SOURCE	Waste from sludge which has settled and separated from wastewater that has been stored in large underground tanks. The sludge is a product of past operations at ORNL involving various nuclear research and radioisotope fabrication processes.
CURRENT CONTAINER COMMENTS	Treatment of the RH TRU sludge waste has not been determined to date. It is anticipated that the sludge will be packaged in 55-gallon drums and shipped in the RH canister.
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	The RH TRU sludge is currently stored in underground tanks which are currently inactive and located at the North Tank Farm, South Tank Farm, and at the Old Hydrofracture Facility. ORNL is currently assessing the use of existing facilities that would allow the mobilization and packaging of the sludge waste for final disposal.
ACCEPTANCE COMMENTS	Bldgs 3023, 3507, and 7852 are not designated at TRU storage facilities.
FINAL FORM COMMENTS	No prior estimates on weight distribution or Pu-239 FGEs were given for this waste stream because no 55-gallon drums are currently in the inventory. The weight estimates assumed 33% of the inventory distributed between <350 lbs, >= 350 <500 lbs, and > 500 lbs. 197 RH Canisters will be required to repack currently stored waste.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	OR-W087	Handling:	RH	NMVP #:	N/A	Stream Name:	RH-TRU Heterogeneous Debris (buried)	Inventory Date:	12/31/94
Local ID:	B2301	Type:	MTRU	Generator Site:	OR	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5490

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	96.2	0.0	1716.4
Aluminum-base Metal/Alloys:	0.0	0.0	1.6
Other Metals/Alloys:	0.0	0.0	21.3
Other Inorganic Material:	2.4	0.0	24.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	80.9	0.0	184.6
Rubber:	7.4	0.0	17.9
Plastics:	64.9	0.0	149.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	3.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos:

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
UNID	1.13E-01
U-235	6.29E-07
Pu-239	5.44E-03
I-131	1.18E-03
Cs-137	1.02E-01
Cm-244	2.58E-03
Cm-242	5.88E-04
Cf-252	4.96E-04
Am-243	4.68E-09
Am-241	3.22E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Cask /Concrete	298.5	0.0	0.0	0.0	0.0	298.5
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	298.7	0.0	0.0	0.0	0.0	298.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	425.4	0.0	0.0	0.0	0.0	425.4
Totals	425.4	0.0	0.0	0.0	0.0	425.4

As-Generated Form: Stored: 298.7 Projected: 0.0 Total: 298.7

Final Waste Form: Stored: 425.4 Projected: 0.0 Total: 425.4

WASTE STREAM DESCRIPTION	This waste stream consists of RH-TRU Waste which is classified as contaminated equipment, decontaminated debris or dry solids and retrievably buried in trenches or pits at ORNL. The physical form is solid. This waste is categorized as heterogeneous debris (matrix code 5490).
WASTE STREAM SOURCE	Hot Cell Waste
CURRENT CONTAINER COMMENTS	Waste will have to be repackaged into acceptable containers for shipment and disposal. Condition of containers is unknown at this time. Condition of containers is unkown at this time. If retrieval is conducted, it may be necessary to repackage the drummed waste due excessive deterioration.
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	It has not been determined whether the buried TRU waste will be retrieved and packaged for final disposal at a repository or left in place as final disposal.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	No prior estimates on weight distribution or Pu-239 FGEs were given for this waste stream because only 1 55-gallon drums is currently in the inventory. The weight estimates assumed 33% of the inventory distributed between <350 lbs, >= 350 <500 lbs, and > 500 lbs. The projected inventory includes 840 55-gallon containers of newly generated waste only and does not include the existing total inventory volume (640 m3) which does not include any 55-gallon drums. Therefore, the entire current inventory will have to be repackaged into 55-gallon drums. 478 RH canisters used to overpack 55 gallon drums will be required to repack the existing waste.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	OR-W044	Handling:	CH	NMVP #:	OR 125A; 125B	Stream Name:	CH-TRU Heterogeneous Debris	Inventory Date:	12/31/94
Local ID:	2305	Type:	MTRU	Generator Site:	KA	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5490

AS-GENERATED EPA CODES

D009, D008, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	96.2	0.0	1716.4
Aluminum-base Metal/Alloys:	0.0	0.0	1.6
Other Metals/Alloys:	0.0	0.0	21.3
Other Inorganic Material:	2.4	0.0	24.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	80.9	0.0	184.8
Rubber:	7.4	0.0	17.9
Plastics:	64.9	0.0	149.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	3.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

OR 125A; 125B

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Co-60	3.51E-09
Pm-147	1.27E-03
Am-241	2.68E-03
Np-237	1.41E-05
Gd-153	0.00E+00
Fe-59	7.65E-03
Zn-65	5.35E-06
Cs-137	4.89E-01
Pu-238	5.47E-02
Cm-248	9.69E-06
Cm-244	5.38E-03
Cm-242	4.14E-03
Cf-252	2.67E-05
Cf-249	9.62E-06
Bk-249	3.30E-04
Am-243	1.95E-04
Es-254M	2.08E-02
U-232	4.00E-05
Y-90	6.50E-09
UNID	5.00E-04
U-238	9.50E-07
U-236	8.52E-08
U-235	1.19E-07
Pa-231	5.98E-04
U-233	3.24E-04
Pu-239	1.08E-03
Th-232	1.03E-07
Tc-99	1.31E-03
Sr-90	4.51E-01
Ra-226	5.07E-04
Pu-242	9.40E-06
Pu-241	2.99E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / Metal	165.9	0.0	0.0	0.0	0.0	165.9
Box / Wood	15.1	0.0	0.0	0.0	0.0	15.1
Cask /Concrete	4.9	0.0	0.0	0.0	0.0	4.9
Drum / 30-gallon	1.1	0.0	0.0	0.0	0.0	1.1
Drum / 55-gallon	331.1	27.5	45.8	91.5	91.5	587.4
Other	4.0	0.0	0.0	0.0	0.0	4.0
Totals	522.1	27.5	45.8	91.5	91.5	778.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	522.9	27.5	45.8	91.5	91.5	779.2
Totals	522.9	27.5	45.8	91.5	91.5	779.2

As-Generated Form: Stored: 522.1 Projected: 256.3 Total: 778.4

Final Waste Form: Stored: 522.9 Projected: 256.3 Total: 779.2

Pu-240	2.08E-02
U-234	2.47E-07

WASTE STREAM DESCRIPTION	This waste stream consists of CH-TRU Waste which is classified as contaminated equipment, decontaminated debris or dry solids. The physical form is solid. These wastes have been examined by WEAF and do not contain free or containerized liquids. This waste is categorized as heterogeneous debris (matrix code 5490).
WASTE STREAM SOURCE	Waste from Glove Box Operations, Laboratory Operations, Hot Cell Clean Up Operations, Equipment Repair and Maintenance, Sources, Radiochemical Processing for Isotope Separation and Purification.
CURRENT CONTAINER COMMENTS	Waste will have to be repackaged into acceptable containers for shipment and disposal. This waste is also forecasted to be generated. Waste will have to be repackaged into acceptable containers for shipment and disposal. 30-gallon containers may have to be overpacked into a 55-gallon drum or waste emptied out an repackaged into a 55-gallon drum. Waste contents will require repackaging into an acceptable containers.
EPA COMMENTS	The majority of this waste stream was generated prior to 1986 and has very limited data available. EPA codes are based on generator process knowledge and evaluations from the Waste Examination and Assay Facility.
MANAGEMENT COMMENTS	The waste currently stored in casks, metal and wood boxes, and other types of containers will have to be repackaged into acceptable containers for shipment and disposal.
ACCEPTANCE COMMENTS	Bldgs 2364, 3019A, 3030, 7823, 7823A, are not designated as TRU storage facilities. Some of the waste in these buildings are being evaluated to determine if the waste is TRU or LLW. Several containers in this waste stream will be assessed as possibly being Spent Nuclear Fuel. Several containers stored in Bldg 3019A may have been sent back to the generators in 1976 however the data bases show they are still being stored. An evaluation will be conducted to reconcile this deficiency. Bldg 7823 has been designated as a LLW storage facility. Bldgs 7826 and 7834 are closed non-RCRA storage facilities. The waste containers stored in these buildings will be evaluated to determine if they are mixed or non-mixed TRU since these are non-RCRA facilities.
FINAL FORM COMMENTS	Prior estimates on weight distribution were given for this waste stream in section 8.2.14.1 . The same estimates are used in this section. The projected inventory includes 1,232 55-gallon containers of newly generated waste only and does not include the existing total inventory volume. Since this is CH TRU waste, it is anticipated it will be transported in the TRUPACT-II cask. 922 additional 55 gallon drums will be required to repack the non-certifiable containers currently stored for this waste stream.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	OR-W045	Handling:	CH	NMVP #:	N/A	Stream Name:	CH-TRU Uncategorized	Inventory Date:	12/31/94
Local ID:	2307	Type:	MTRU	Generator Site:	OR	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S9000

AS-GENERATED EPA CODES

D011, D009, D008, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	96.1	0.0	1716.4
Aluminum-base Metal/Alloys:	0.0	0.0	1.6
Other Metals/Alloys:	0.0	0.0	21.3
Other Inorganic Material:	2.4	0.0	24.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	80.9	0.0	184.8
Rubber:	7.4	0.0	17.9
Plastics:	64.9	0.0	149.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	3.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: UNK

PCBs: No

Source: Source Information Not Compiled

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.29E+01
Pu-240	1.20E+00
Pu-239	6.92E-01
Pu-238	9.54E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box /Metal	4.0	0.0	0.0	0.0	0.0	4.0
Drum / 55-gallon	1.5	0.0	0.0	0.0	0.0	1.5
Totals	5.4	0.0	0.0	0.0	0.0	5.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	5.4	0.0	0.0	0.0	0.0	5.4
Totals	5.4	0.0	0.0	0.0	0.0	5.4

As-Generated Form: Stored: 5.4 Projected: 0.0 Total: 5.4

Final Waste Form: Stored: 5.4 Projected: 0.0 Total: 5.4

WASTE STREAM DESCRIPTION	This waste stream consists of CH-TRU waste which has not been classified or characterized. It is believed that the physical form is either solid, liquid, mixed (both solid and liquid), or unknown and is suspected to contain hazardous constituents. This waste is categorized as uncategorized (matrix code 9000).
WASTE STREAM SOURCE	Glove Box Waste
CURRENT CONTAINER COMMENTS	Waste contained in metal boxes will have to be repackaged into acceptable containers.
EPA COMMENTS	The majority of this waste stream was generated prior to 1986 and has very limited data available. EPA codes are based on generator process knowledge and evaluations from the Waste Examination and Assay Facility.
MANAGEMENT COMMENTS	Final treatment, if required, will be decided upon further characterization and utilization of process knowledge for the categorization of this waste stream. The waste currently stored in casks, metal and wood boxes will have to be repackaged into acceptable containers for shipment and disposal.
ACCEPTANCE COMMENTS	Bldg 7823E is not designated as a TRU storage facility. Waste inside this building is being assessed if it is TRU or LLW. Bldg 7826 is a closed non-RCRA storage facility. The waste containers stored in this building will be evaluated to determine if they are mixed or non-mixed TRU since this is a non-RCRA facility.
FINAL FORM COMMENTS	Prior estimates on weight distribution were given for this waste stream in section 8.2.14.1 . The same estimates are used in this section. No newly generated waste is projected for this waste stream. 19 additional 55 gallon drums will be required to repack the non-certifiable containers currently stored for this waste stream.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	OR-W046	Handling:	RH	NMVP #:	N/A	Stream Name:	RH-TRU Sludge (active tank)	Inventory Date:	12/31/94
Local ID:	2313	Type:	MTRU	Generator Site:	OR	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3100

AS-GENERATED EPA CODES

D009, D008, D007, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	396.6	173.1	528.9
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	396.6	173.1	528.9
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Eu-154	2.59E-02
C-14	5.35E-05
Ce-144	1.67E-03
Cm-243	1.63E-03
Cm-244	7.75E-03
Co-60	1.12E-02
Cs-134	3.83E-04
Am-241	2.07E-03
Eu-152	4.62E-02
Zr-95	4.50E-03
Eu-155	6.75E-03
Nb-95	3.14E-04
Pu-239	8.10E-04
Ru-106	3.07E-03
Sr-90	2.49E-01
U-232	8.98E-06
U-233	5.20E-04
U-235	1.69E-03
Cs-137	5.84E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.0	18.1	30.2	60.3	60.3	168.9
Single shell tank / SS	704.4	0.0	0.0	0.0	0.0	704.4
Totals	704.4	18.1	30.2	60.3	60.3	873.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	861.5	22.2	36.9	73.9	73.9	1068.4
Totals	861.5	22.2	36.9	73.9	73.9	1068.4

As-Generated Form: Stored: 704.4 Projected: 168.9 Total: 873.3

Final Waste Form: Stored: 861.5 Projected: 206.5 Total: 1068.0

WASTE STREAM DESCRIPTION	This waste stream is comprised of liquid low level waste that has been concentrated by evaporation and subsequently stored in large underground storage tanks. The waste is generated as relatively dilute low-level waste in various nuclear research and radioisotope fabrication processes. These streams are collected and centrally volume reduced in an evaporator facility. After the waste has been stored, it separates into phases. The resulting solids (sludge phase) is fairly homogeneous chemically and radiochemically. Since the sludge is a product of solids concentration, it has been classified as a TRU waste. This waste is categorized as sludge (matrix code 3121).
WASTE STREAM SOURCE	Liquid Low Level Waste sludge concentrated by processing in Liquid Low Level Waste Evaporator Facility.
CURRENT CONTAINER COMMENTS	Treatment of the RH TRU sludge waste has not been determined to date. It is anticipated that the sludge will be packaged in 55-gallon drums and shipped in the RH canister. This is forecasted waste to be generated.
EPA COMMENTS	TCLP levels provided are based on absolute analysis for specific metals. These analysis were based on the formerly used EP-TOX methodology. TCLP for organics has not been performed. Typical values for metals are listed in mg/kg.
MANAGEMENT COMMENTS	The RH TRU sludge is currently stored in underground tanks which are currently active and located at the the Melton Valley Storeage Tank area and the Evaporator Facility in Bethel Valley. ORNL is currently assessing the use of existing facilities that would allow the mobilization and packaging of the sludge waste for final disposal.
ACCEPTANCE COMMENTS	Bldgs 2531 and 7830 are not designated as TRU Storeage Facilities.
FINAL FORM COMMENTS	No prior estimates on weight distribution or Pu-239 FGEs were given for this waste stream because no 55-gallon drums were reported in the inventory. The weight estimates assumed 33% of the inventory distributed between <350 lbs, >= 350 <500 lbs, and > 500 lbs. The projected inventory includes 812 55-gallon containers of newly generated waste only and does not include the existing total inventory volume (587 m3) which does not include any 55-gallon drums. Therefore, the entire current inventory will have to be repackaged into 55-gallon drums. The value reported in section 8.2.15.1.11 reflects the number of RH canisters projected which includes 3 55-gallon drums in each canister. 968 additional RH canisters will be required to repack the existing waste in current tanks.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	OR-W047	Handling:	CH	NMVP #:	N/A	Stream Name:	CH-TRU Heterogeneous Debris (with liquids)	Inventory Date:	12/31/94
Local ID:	2306	Type:	MTRU	Generator Site:	NB	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5490

AS-GENERATED EPA CODES

D011, D009, D008, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	96.2	0.0	1716.4
Aluminum-base Metal/Alloys:	0.0	0.0	1.6
Other Metals/Alloys:	0.0	0.0	21.3
Other Inorganic Material:	2.4	0.0	24.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	80.9	0.0	184.8
Rubber:	7.4	0.0	17.9
Plastics:	64.9	0.0	149.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.6	0.0	3.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Eu-152	6.49E-09
Am-241	3.71E-03
Am-243	6.79E-04
Bk-249	5.29E-04
Cf-249	6.49E-06
Cf-252	8.73E-04
Cm-240	6.49E-06
Cm-242	5.37E-02
Cm-244	9.16E-03
Cm-246	6.49E-08
Ac-227	6.49E-08
Es-253	5.19E-02
U-238	3.82E-09
Np-237	7.77E-05
Pu-238	1.09E-01
Pu-239	1.34E-03
Pu-240	2.19E-03
Pu-241	3.70E-01
Pu-242	9.30E-05
Ra-226	3.80E-05
Th-230	7.79E-08
Th-232	1.02E-07
U-232	3.06E-06
U-233	1.26E-03
U-235	2.41E-07
Cs-137	6.49E-08

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 30-gallon	0.6	0.0	0.0	0.0	0.0	0.6
Drum / 55-gallon	153.1	0.0	0.0	0.0	0.0	153.1
Totals	153.6	0.0	0.0	0.0	0.0	153.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	154.1	0.0	0.0	0.0	0.0	154.1
Totals	154.1	0.0	0.0	0.0	0.0	154.1

As-Generated Form: Stored: 153.6 Projected: 0.0 Total: 153.6

Final Waste Form: Stored: 154.1 Projected: 0.0 Total: 154.1

WASTE STREAM DESCRIPTION	This waste stream consists of CH-TRU waste which is classified as contaminated equipment, decontaminated debris or dry solids. The physical form is solid. These wastes have been examined by WEAF and found to contain free and/or containerized liquids. This waste is categorized as heterogeneous debris (matrix code 5490).
WASTE STREAM SOURCE	Waste from Glove Box Operations, Laboratory Operations, Hot Cell Clean Up Operations, Equipment Repair and Maintenance, and Sources.
CURRENT CONTAINER COMMENTS	Waste will be repackaged to eliminate free liquids.
EPA COMMENTS	The majority of this waste stream was generated prior to 1986 and has very limited data available. EPA codes are based on generator process knowledge and evaluations from the Waste Examination and Assay Facility.
MANAGEMENT COMMENTS	This waste stream has been processed through WEAF and determined to contain excess free liquids. The waste contents will have to repackaged to eliminate the free liquids prior to shipment to WIPP.
ACCEPTANCE COMMENTS	Bldg 7823 is not designated as a TRU Storeage Facility but has been designated as a LLW storage Facility. The waste inside this building is being assessed whether it is TRU or LLW. Bldg 7834 is a closed non-RCRA storage facility. The waste containers stored in this building will be evaluated to determine if they are mixed or non-mixed TRU since this is a non-RCRA facility.
FINAL FORM COMMENTS	Prior estimates on weight distribution were given for this waste stream in section 8.2.14.1 . The same estimates are used in this section. No newly generated waste is projected for this waste stream. 5 additional 55 gallon drums will be required to repack the existing waste from 30 gallon drums.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	OR-W088	Handling:	CH	NMVP #:	N/A	Stream Name:	CH-TRU Heterogeneous Debris (buried)	Inventory Date:	12/31/94
Local ID:	B2302	Type:	MTRU	Generator Site:	OR	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	96.2	0.0	1716.4
Aluminum-base Metal/Alloys:	0.0	0.0	1.6
Other Metals/Alloys:	0.0	0.0	21.3
Other Inorganic Material:	2.4	0.0	24.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	80.9	0.0	184.8
Rubber:	7.4	0.0	17.9
Plastics:	64.9	0.0	149.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	3.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos:

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U-233	5.27E-06
Th-232	6.59E-10
Sr-90	6.59E-06
Pu-239	6.59E-08
P-32	4.94E-02
I-131	4.94E-02
H-3	4.94E-02
Cs-137	6.59E-06
Cm-244	1.65E-02
C-14	4.94E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Dumpster	3.1	0.0	0.0	0.0	0.0	3.1
GI Can	3.2	0.0	0.0	0.0	0.0	3.2
Other	8.5	0.0	0.0	0.0	0.0	8.5
Totals	15.0	0.0	0.0	0.0	0.0	15.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	15.2	0.0	0.0	0.0	0.0	15.2
Totals	15.2	0.0	0.0	0.0	0.0	15.2

As-Generated Form: Stored: 15.0 Projected: 0.0 Total: 15.0

Final Waste Form: Stored: 15.2 Projected: 0.0 Total: 15.2

WASTE STREAM DESCRIPTION	This waste stream consists of CH-TRU Waste which is classified as contaminated equipment, decontaminated debris or dry solids and retrievably buried in trenches or pits at ORNL. The physical form is solid. This waste is categorized as heterogeneous debris (matrix code 5490).
WASTE STREAM SOURCE	Contaminated Equipment, Cleanup Debris
CURRENT CONTAINER COMMENTS	This waste will have to be packaged in acceptable containers. Condition of containers is unknown at this time. If waste is retrieved, it may require repackaging due to excessive deterioration of the drums. This waste will have to be packaged in acceptable containers.
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	t has not been determined whether the buried TRU waste will be retrieved and packaged for final disposal at a repository or left in place as final disposal. The waste currently stored in casks , dumpsters, and other types of containers will have to be repackaged into acceptable containers for shipment and disposal.
ACCEPTANCE COMMENTS	Facilities 7822TB, 7822TH, and 7822TL are not designated as TRU Storage Facilities. Several containers in this waste stream may actually be stored instead of buried and may be LLW instead of TRU. Evaluation of these concerns will be conducted. One container is this waste stream may not be CH and may instead be RH because the storage facilities require that only RH be allowed.
FINAL FORM COMMENTS	No prior estimates on weight distribution or Pu-239 FGEs were given for this waste stream because only 1 55-gallon drums is currently in the inventory. The weight estimates assumed 33% of the inventory distributed between <350 lbs, >= 350 <500 lbs, and > 500 lbs. The projected inventory includes 840 55-gallon containers of newly generated waste only and does not include the existing total inventory volume (640 m3) which does not include any 55-gallon drums. Therefore, the entire current inventory will have to be repackaged into 55-gallon drums. 72 additional 55 gallon drums will be required to repack the existing waste.

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	OR-W093	Handling:	CH	NMVP #:	N/A	Stream Name:	CH-TRU Heterogeneous Debris (nonmixed)	Inventory Date:	12/31/94
Local ID:	T2304	Type:	TRU	Generator Site:	NB	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5490

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	96.2	0.0	1716.4
Aluminum-base Metal/Alloys:	0.0	0.0	1.6
Other Metals/Alloys:	0.0	0.0	21.3
Other Inorganic Material:	2.4	0.0	24.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	80.9	0.0	184.8
Rubber:	7.4	0.0	17.9
Plastics:	64.9	0.0	149.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	3.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Po-209	2.29E-05
Am-243	2.07E-04
Bk-249	3.48E-06
Cf-249	9.75E-09
Cf-252	1.16E-06
Cm-242	8.62E-06
Cm-244	7.09E-05
Cm-248	2.24E-03
Cs-137	1.16E-05
Eu-152	5.48E-06
Ni-63	1.49E-06
Np-237	2.55E-07
Am-241	2.52E+00
Pm-147	2.75E-06
UNID	2.25E-09
Pu-238	4.59E-09
Pu-239	2.41E-02
Pu-240	3.16E-04
Pu-241	7.50E-05
Pu-242	8.86E-02
Ra-223	2.14E-06
Ra-226	2.75E-06
Sr-90	3.60E-06
U-232	1.07E-09
U-233	9.52E-08
U-234	4.26E-03
U-235	2.98E-07
U-236	9.99E-08
U-238	1.87E-08
Pa-231	1.18E-05

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box /Metal	2.7	0.0	0.0	0.0	0.0	2.7
Box /Wood	337.1	0.0	0.0	0.0	0.0	337.1
Drum / 55-gallon	42.0	0.0	0.0	0.0	0.0	42.0
Other	47.8	0.0	0.0	0.0	0.0	47.8
Plastic	6.2	0.0	0.0	0.0	0.0	6.2
Totals	435.9	0.0	0.0	0.0	0.0	435.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	435.8	0.0	0.0	0.0	0.0	435.8
Totals	435.8	0.0	0.0	0.0	0.0	435.8

As-Generated Form: Stored: 435.9 Projected: 0.0 Total: 435.9

Final Waste Form: Stored: 435.8 Projected: 0.0 Total: 435.8

WASTE STREAM DESCRIPTION	This waste stream consists of CH-TRU Waste which is classified as contaminated equipment, decontaminated debris or dry solids. The physical form is solid and is believed not to contain hazardous constituents. It has not been determined if these wastes have been examined by WEAF. This waste is categorized as heterogeneous debris (matrix code 5490).
WASTE STREAM SOURCE	Waste from Glove Box Operations, Laboratory Operations, Hot Cell Clean Up Operations, Equipment Repair and Maintenance, Sources, and Radiochemical Processing for Isotope Separation and Purification
CURRENT CONTAINER COMMENTS	This waste is probably wrapped in plastic and would have to be packaged into an acceptable container. Waste will have to be repackaged into acceptable containers for shipment and disposal.
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Further utilization of process knowledge and characterization will be required to verify the absence of hazardous constituents. Waste stored in casks, metal and wood boxes and some drums will require repackaging into appropriate shipping containers.
ACCEPTANCE COMMENTS	Bldgs 7822, 7841, and 7886-3 are not designated as TRU Storage Facilities. The waste inside these buildings will be assessed whether they are TRU or LLW. Bldg 7834 is a closed non-RCRA storage facility. The waste containers stored in this building will be evaluated to determine if they are mixed or non-mixed TRU since this is a non-RCRA facility.
FINAL FORM COMMENTS	Prior estimates on weight distribution were given for this waste stream in section 8.2.14.1 . The same estimates are used in this section. No newly generated waste is projected for this waste stream. 1893 additional 55 gallon drums will be required to repack the existing waste.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	OR-W094	Handling:	RH	NMVP #:	N/A	Stream Name:	RH-TRU Heterogeneous Debris (nonmixed)	Inventory Date:	12/31/94
Local ID:	T2306	Type:	TRU	Generator Site:	OR	Final Waste Form:	Heterogeneous	Waste Matrix Code:	

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	96.2	0.0	1716.4
Aluminum-base Metal/Alloys:	0.0	0.0	1.6
Other Metals/Alloys:	0.0	0.0	21.3
Other Inorganic Material:	2.4	0.0	24.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	80.9	0.0	184.6
Rubber:	7.4	0.0	17.9
Plastics:	64.9	0.0	149.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	3.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
UNID	0.00E+00
U-233	6.51E-06
Pu-239	3.90E-03
Cs-137	1.46E-02
Cm-244	1.20E-03
Cf-252	2.98E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box /Wood	18.7	0.0	0.0	0.0	0.0	18.7
Cask /Concrete	40.6	0.0	0.0	0.0	0.0	40.6
Totals	59.3	0.0	0.0	0.0	0.0	59.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	84.5	0.0	0.0	0.0	0.0	84.5
Totals	84.5	0.0	0.0	0.0	0.0	84.5

As-Generated Form: Stored: 59.3 Projected: 0.0 Total: 59.3

Final Waste Form: Stored: 84.5 Projected: 0.0 Total: 84.5

Appendix P

TWBIR ID: OR-W054

WASTE STREAM DESCRIPTION	This waste stream consists of RH-TRU Waste which is classified as contaminated equipment, decontaminated debris or dry solids. The physical form is solid and is believed not to contain hazardous constituents. This waste is categorized as heterogeneous debris (matrix code 5490).
WASTE STREAM SOURCE	Hot Cell Waste and Radiochemical Processing for Isotope Separation and Purification.
CURRENT CONTAINER COMMENTS	Waste will have to be repackaged into acceptable containers for shipment and disposal.
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Further utilization of process knowledge and characterization will be required to verify the absence of hazardous constituents. Waste stored in casks, metal and wood boxes and some drums will require repackaging into appropriate shipping containers.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	No prior estimates on weight distribution or Pu-239 FGEs were given for this waste stream because no 55-gallon drums were reported in the inventory and no waste is projected for the future. 95 RH canisters used to overpack 55 gallon drums will be required to repack the existing waste.

PA Paducah Gaseous Diffusion Plant

PADUCAH GASEOUS DIFFUSION PLANT

Location and Description

The Paducah Gaseous Diffusion Plant (PA) is situated in northwestern Kentucky, 26 kilometers west of Paducah, near the Ohio River. The site encompasses 750 acres (including 74 acres of process buildings). The site is included in a 3422-acre tract of DOE-owned property.

The PA is operated from DOE/Oak Ridge Operations Office with Lockheed Martin Utilities Services as the Management and Operating Contractor.

Mission

The DOE uranium enrichment complex of which PA is a component, was originally constructed to produce highly enriched uranium for nuclear weapons. The complex is now used primarily to provide low enriched uranium for domestic and foreign nuclear power reactors and, to a lesser degree, to provide the highly enriched uranium used in nuclear propulsion (naval) reactors and some research and test reactors.

The principle on-site process at PA is the separation of uranium isotopes through gaseous diffusion. The process produces enriched uranium to levels of up to 3% U-235. Most of the enriched product is shipped to the Portsmouth Gaseous Diffusion Plant for further processing.

Waste Information

Processes

During its defense-related operations, recovery of a reactor material resulted in the generation of TRU waste. Although most of the TRU waste has been shipped to ORNL for storage, some wastes remain on site. No additional TRU waste generation is expected at the PGDP.

Modifications/Assumptions/Development

PA reported radionuclides in Ci per kilogram. The TWBIR team calculated the radionuclides in terms of Ci/m^3 using the mass and final form volumes reported by PA.

Waste streams that are expected to be directly shipped to WIPP (upon WIPP–WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double– counting these streams as both "as generated currently stored" and "final form projected."

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	PA-A015	Handling:	CH	NMVP #:	N/A	Stream Name:	Transuranic - Solid	Inventory Date:	12/31/94
Local ID:	PA-A015	Type:	MTRU	Generator Site:	PA	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3129

AS-GENERATED EPA CODES

D007

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	63.6	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	212.0		
Packaging Material Plastic:	17.5		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
U	6.58E+00
Th-230	1.34E-02
Tc-99	7.09E-01
Pu-239	6.60E-02
Np-237	9.94E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum/55-gallon in overpack	1.2	0.0	0.0	0.0	0.0	1.2
Totals	1.2	0.0	0.0	0.0	0.0	1.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
SWB used to overpack 55 gallon drums	0.0	0.0	0.0	0.0	1.9	1.9
Totals	0.0	0.0	0.0	0.0	1.9	1.9

As-Generated Form: Stored: 1.2 Projected: 0.0 Total: 1.2

Final Waste Form: Stored: 0.0 Projected: 1.9 Total: 1.9

WASTE STREAM DESCRIPTION	Transuranic Waste Class C, andTransuranic Waste Basic, class C filter/White Powder
WASTE STREAM SOURCE	C-400
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

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PANTEX PLANT

Location and Description

The Pantex Plant (PX) is located 26 kilometers northeast of Amarillo, Texas, on U.S. Highway 60. PX occupies more than 320 buildings and is comprised of 2 contiguous tracts of land; 10,080 acres are owned by DOE and 5,806 acres are leased from Texas Tech University and used primarily as a safety and security buffer zone. Activities include weapons production, maintenance and modification, and disassembly of weapons retired from stockpile. PX is operated by Mason & Hanger-Silas Mason Co. Inc.

Mission

The PX primary missions include meeting DOE's responsibilities for nuclear weapons disassembly, assembly, stockpile monitoring, modifications, quality evaluation, and maintenance of the nation's weapons stockpile. PX also conducts research and development in high explosives design in support of weapons design and development program, and production engineering for DOE.

Waste Information

Processes

The assembly and dismantlement of nuclear weapons includes high explosives and solvents. PXs TRU waste was generated as a result of a pit cracking while removing high explosives. The waste is primarily debris from the cleanup operations.

Modifications/Assumptions/Development

Waste streams that are expected to be directly shipped to WIPP (upon WIPP–WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double– counting these streams as both "as generated currently stored" and "final form projected."

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	PX-T001	Handling:	CH	NMVP #:	N/A	Stream Name:	Pantex	Inventory Date:	6/29/95
Local ID:	N/A	Type:	TRU	Generator Site:	PX	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S0000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	87.0	78.4	95.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	11.3	10.2	12.4
Plastics:	11.3	10.2	12.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos:

PCBs: No

Source: Spill Clean-ups/Emergency Response Actions

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-239	7.64E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 0.6 Projected: 0.0 Total: 0.6

WASTE STREAM DESCRIPTION	This material is contaminated PPE and tools generated during weapons dismantlement.
WASTE STREAM SOURCE	$ 48 $ Weapons dismantlement support material.
CURRENT CONTAINER COMMENTS	Same Nuclides
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

RF Rocky Flats Environmental Technology Site

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Location and Description

The Rocky Flats Environmental Technology Site (RFETS) is located in Jefferson County, Colorado, approximately 26 kilometers northwest of downtown Denver, near the suburban communities of Westminster, Boulder, Broomfield, Golden and Arvada, Colorado. It is a 384-acre complex in the center of a 6550-acre reservation.

The facilities at RFETS are divided into two main areas. The area on the north contains all of the facilities related to plutonium operations. Security fences and intrusion-detection systems surround all buildings in which plutonium is handled or stored, and various other measures are used to provide safeguards and security. This area is referred to as the "Protected Area". The area to the south contains both nonplutonium manufacturing facilities, which are located in secure areas, plutonium waste storage facilities, and general support facilities, some of which are in secured areas.

Mission

The original mission of the Rocky Flats Plant (original name for RFETS) was the manufacture of nuclear weapons components fabricated from plutonium, enriched uranium, and conventional metals. It was originally a key weapons material production facility. Plant construction began in March 1951 and operations began in 1952. The Plant used specialized machine shops to process raw nuclear material into the finished components required by the warhead designs. Plutonium and beryllium components were fabricated into the shells of fissionable materials, called pits. A former mission of RFETS was to dissemble the pits from retiring weapons. The recovered pit was chemically processed to remove americium and plutonium. Plutonium scrap recovery was also performed at RF.

In 1989, the Secretary of Energy halted all plutonium production operations at the RFETS in order to improve the conduct of operations, standards of performance, and the management structure. On September 27, 1991, the President of the United States announced his cancellation of several nuclear-weapons programs, leaving the W-88 war head for the Trident II missile as the only remaining system requiring the fabrication of plutonium components at RFETS. This requirement was eliminated in 1992, when the President decided to cancel further production of the Trident II missile and its nuclear warhead.

In response to the President's decisions, the Secretary of Energy proceeded with several initiatives directed at a more cost-effective execution of the defense mission which included revising plans at RFETS for plutonium and nonplutonium manufacturing areas.

RFETS new mission is to clean out and stabilize production process systems, decontaminate obsolete or excess buildings and facilities; stabilize residues in preparation for transport to storage or disposal sites; possibly transfer non-plutonium manufacturing to other locations; maintain a contingency status. Approximately 140 structures at RFETS include major manufacturing, chemical processing, plutonium recovery, and waste treatment facilities. Plant operations also include chemical laboratories, research and development, and support of other DOE facilities.

RFETS has stopped weapons production operations. Future relevant activities will be TRU waste management, including preparation of existing material for geologic disposal, and decontamination and decommissioning.

Waste Information

Processes

Production activities included metal working, fabrication and component assembly, chemical recovery and purification of transuranic nuclides. The plant utilized specialized facilities for recovering nuclear components from obsolete weapons.

Prior to 1960, the main plutonium purification process was dissolution followed by a solvent extraction step that used tributylphosphate as the solvent and dodecane as the diluent. The solvent extraction step was followed by cation exchange. Around 1960, solvent extraction was eliminated from the recovery process because the materials going through the process were becoming more and more varied and could not be adequately handled by the process. The solvent extraction process was replaced by dissolution in the nitric acid followed by ion exchange and peroxide precipitation. The purified plutonium oxide was converted to plutonium fluoride and reduced to plutonium metal using calcium. Other chemical processes, such as molten salt extraction, have also been used at RFETS.

A need to process americium arose because of a personnel exposure problem from its gamma ray emissions. From late 1957 until the late 1970s, americium was recovered and purified at the plant for resale. The demand for americium dropped off in the late 1970s, and the americium was processed as waste.

Depleted uranium operations were a significant part of the original manufacturing performed at the plant. Operations included casting, machining, rolling, and forming. Alloying of depleted uranium with niobium began in 1966, although full-scale production did not occur until the early 1970s. Depleted uranium, which contains less than 0.7% U-235 by mass, is rich in the U-238 radionuclide. The RFETS depleted uranium is assumed to be material type U-12, which is composed of 99.78% U-238, 0.215% U-235, 0.006% U-236, and 0.001% U-234 by mass.

Enriched uranium, containing about 93% U-235 by mass, was processed at the RFETS from 1952 to 1964. This concentration of U-235 is material type U-38, which is composed of 93.08% U-235, 5.65% U-238, 0.93% U-234, and 0.34% U-236 by mass. The enriched uranium manufacturing processes included casting, forming, machining, assembly, recovery, and purification.

The enriched uranium chemical recovery line began operations in 1954. The chemical recovery used a solvent extraction process with dibutylethylcarbutol as the solvent and dodecane as the diluent. This process was similar to the early solvent extraction process used for plutonium recovery. A solvent still was operated at the plant, and some of the distilled solvent was reused. The discarded solvent and oils were drummed and later became part of the organic sludge waste stream. Enriched uranium operations were shut down in 1962.

Some U-233 was processed from the late 1950s to the early 1970s. The U-233 processing included casting, machining, aqueous processing, and separations. Records indicate that the INEL received 56 grams of U-233 as waste from the RFETS in 1967.

All the plutonium operations were carried out in enclosures that are operated under subatmospheric pressure to minimize uncontrolled releases of radioactive material into the operating area. These enclosures are called gloveboxes, and the ventilation systems pass through a high-efficiency particulate air filter system. Leaded rubber gloves are used to protect operations personnel from the gamma activity associated with the plutonium and americium.

The filters from the ventilation systems and the filters used in other systems eventually become waste. The leaded rubber becomes contaminated and also becomes waste. Some of the processes used produce liquid waste streams. These liquid streams are converted to a sludge or solid with adsorbents or cements. contaminated equipment, clothing, tools, etc, end up as radioactive waste. Waste is also generated by decontamination projects and modifications to facilities.

All radioactive waste from the RFETS that was sent to INEL from 1954 to 1970 was buried at the RWMC. Transuranic waste received at INEL from RFETS after October 1970 has been stored aboveground at the Transuranic Storage Area.

Modifications/Assumptions/Development

The approach used and the assumptions made in preparing the RF waste stream profiles are as follows:

- Projection volumes were taken from the Comprehensive Waste Management Plan (CWMP) with the exception of Solid Stabilization (formerly Residue Elimination). The program projection available for Solid Stabilization at the time the CWMP was being drafted was a "not to exceed" volume. The volume and breakdown of final form waste streams used in preparing the TWBIR was an updated, projected volume taken from the Conceptual Design Report for Residue Elimination at Rocky Flats, RES-005-001, May 1994.
- The planned treatment for waste streams requiring treatment to meet WIPP WAC and TRAMPAC requirements are taken from the Draft Site Treatment Plan (DSTP) and the Treatment System Definition Report (TSDR) published by the Waste Compliance Programs.
- In the case where the waste stream or some portion of the waste stream requires treatment to change to the final waste form, the volume of waste resulting from the treatment of the original waste stream is included in the final waste form volume of the resulting waste stream. For example, the volume of waste resulting from treatment of Incinerator Ash is included in the final waste form volumes of the resulting waste stream, Solidified Process Solids.
- Volume increases due to repackaging waste that exceed the current decay heat limit when no other treatment is required were not included.
- To remain consistent with the volumes reported in the other RFETS publications, 0.21 m^3 was used as the container volume of a standard DOT-17C 55-gallon drum. The volume used for other containers was as specified on the data forms.
- Waste in boxes other than standard waste boxes (SWB) are assumed to be repackaged into SWBs, such that the waste from one 4'x4'x7' box is repacked into two SWBs. Therefore, the final waste form volumes for SWBs include the projected volume increase resulting from such repackaging activities.

- The values for the Typical Waste Material Weights for Final Waste Form data for the TRU waste streams are the same as the corresponding TRU mixed waste streams.
- The waste generation rates for each waste form were prorated based on the fraction represented by the waste form on a Waste and Environmental Management System (WEMS) generation report showing actual generation.

In the following waste streams, the actual volumes reported are less than .01 m^3 and are rounded to 0.0 m^3 in the TWBIR:

RF-MR0527	RF-MTX111	RF-MTX112	RF-MTX115
RF-TR0082	RF-MR-X200	RF-TR0084	RF-TR0089
RF-TR0395	RF-TR0396	RF-TR0527	RF-TR0601
RF-W011			

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W063	Handling:	CH	NMVP #:	N/A	Stream Name:	miscellaneous liquids/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	L1190

AS-GENERATED EPA CODES

D007, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bottle / 4-Liter	0.1	0.0	0.0	0.0	0.0	0.1
Totals	0.1	0.0	0.0	0.0	0.0	0.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.1 Projected: 0.0 Total: 0.1

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	These wastes are aqueous acidic liquid residues.
WASTE STREAM SOURCE	IDC 070 is high-level plutonium nitrate feed solution (nitric acid solution containing plutonium) generated at Anion Exchange or High-Level Dissolution. This solution is feed, batched for Precipitation in Building 771. High-Level Dissolution in Building 771 dissolved high-purity-plutonium content residues to recover plutonium. These residues were dissolved in nitric acid and heated. The resulting plutonium nitrate was filtered to remove undissolved solids and particulates. The solution (IDC 070) was batched by combining it with other plutonium nitrate or ion column eluate and evaporator bottoms from various processes to achieve the desired concentration. The plutonium nitrate feed solutions were transferred to an evaporator chamber which resulted in steam condensate (IDC 513) and evaporator bottoms (IDC 100). RE: Section 6.2.11, RFETS doesn't expect sulfates, phosphates >1 wt%, but has no supporting data. RFETS does expect nitrate concentration to be >1% , but has no data indicating the actual concentration or range.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Subpopulation A Subpopulation A includes acidic solutions generated in the Building 371 Analytical Laboratory. These solutions were sampled for pH and were determined to be corrosive (D002). Therefore, this subpopulation exhibits the characteristic of corrosivity as defined in 6 CCR 1007-3, Section 261.22. Subpopulation H These solutions were sampled for pH and were determined to be corrosive (D002). Twenty-eight bottles of newly generated solutions generated in Building 771 were sampled for metals. Nine bottles contained greater than 1.0 ppm cadmium, 20 contained greater than 5.0 ppm chromium, and nine contained greater than 5.0 ppm lead. Six bottles are below the regulatory levels for these metals. In addition, Building 771 does X-Ray Fluorescence which uses silver chloride in the analysis. Silver is presumed to be in these solutions, but it has not been determined which bottles were generated from this process and if any of the bottles sampled were from this process. This subpopulation exhibits the characteristics of corrosivity (D002) and toxicity for cadmium, chromium, and lead (D006, D007, and D008) as defined in 6 CCR 1007-3, Sections 261.22 and 261.24.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Variability surrounding fullness of containers precludes a meaningful computation of density. 2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55-gallon carbon steel drums.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W063	Handling:	CH	NMVP #:	N/A	Stream Name:	miscellaneous liquids/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	L1190

AS-GENERATED EPA CODES

F009, F007, F005, F003, F002, F001, D043, D040, D039, D038, D022, D019, D018, D011, D010, D009, D008, D007, D006, D005, D004, D003, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bottle / 4-Liter	0.01	0.0	0.0	0.0	0.0	0.01
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.01 Projected: 0.0 Total: 0.01

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	These wastes are aqueous acidic liquid residues.
WASTE STREAM SOURCE	IDC 200 is analytical standards. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Subpopulation A Subpopulation A includes acidic solutions generated in the Building 371 Analytical Laboratory. These solutions were sampled for pH and were determined to be corrosive (D002). Therefore, this subpopulation exhibits the characteristic of corrosivity as defined in 6 CCR 1007-3, Section 261.22. Subpopulation H These solutions were sampled for pH and were determined to be corrosive (D002). Twenty-eight bottles of newly generated solutions generated in Building 771 were sampled for metals. Nine bottles contained greater than 1.0 ppm cadmium, 20 contained greater than 5.0 ppm chromium, and nine contained greater than 5.0 ppm lead. Six bottles are below the regulatory levels for these metals. In addition, Building 771 does X-Ray Fluorescence which uses silver chloride in the analysis. Silver is presumed to be in these solutions, but it has not been determined which bottles were generated from this process and if any of the bottles sampled were from this process. This subpopulation exhibits the characteristics of corrosivity (D002) and toxicity for cadmium, chromium, and lead (D006, D007, and D008) as defined in 6 CCR 1007-3, Sections 261.22 and 261.24.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Variability surrounding fullness of containers precludes a meaningful computation of density. 2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55-gallon carbon steel drums.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W068	Handling:	CH	NMVP #:	N/A	Stream Name:	Particulate Sludge/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	ZZ	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3129

AS-GENERATED EPA CODES

F002, F005, F001, D011, D010, D009, D008, D007, D006, D005, D004, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.01	0.0	0.0	0.0	0.0	0.01
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

This waste consists of sludge type material. It is a semi-fluid material. Some of it has had cement added to it to try to solidify it. ,

WASTE STREAM SOURCE

IDC 292 was intended for incinerator sludge from the recovery incinerator in Building 771. IDC 292 materials were reassessed under Waste Form 1, Incinerator Ash. However, there is one box WEMS incorrectly assigned this IDC. According to the waste-box log sheet dated October 14, 1987, the box contains Electrochemical Milling Sludge generated in Building 881. This operation generated sludge from the milling of various metals including stainless steel. It was indicated that no cyanides were used in the ECM operations in Building 881. The IDC for this box should be changed to 299.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

Subpopulation 46GA includes 15 containers generated in the Building 371 analytical labs. The WSRIC book for the building includes no IDC 299 waste streams. Until shortly after September 1993, the WSRIC book for Building 371 included a process output numbered 371-4-18 (Low-level Soil Sludges) that was assigned EPA Codes D002-D011, D018, D019, D035, D040, F001, F002, F005-F007, and F009. The current WSRIC book for Building 371 includes a new stream, 371-4-22 (Low-Level Soil Sludges), that replaced number 371-4-18, and that is characterized only as characteristic waste with EPA Waste Codes D004-D011. The WEMS characterization for this group is D007. It is assumed, therefore, that since the containers in this group were generated from 1984 to 1992, the materials are best assigned the same waste codes as the 371-4-18 stream cited above, with the exception of the plating waste codes (F006, F007, and F009), and the reactivity code (D003), because it is known that no plating waste was generated in Building 371 labs and that no reactive wastes were generated. Most likely, all 15 containers do not contain wastes that are assigned all of the codes. It is also possible that some of the remaining waste codes can be removed based on EPA guidance concerning the sample exclusion cited in Section 261.4 (d). However, it could not be determined from personnel in Building 371 whether waste stream 371-4-18 was characterized as toxic for benzene (D018), carbon tetrachloride (D019), methyl ethyl ketone (D035), and trichloroethylene (D040) based on the double listing policy previously used or if the codes were assigned because the waste actually exhibits the characteristic of toxicity for those organics. Nor could it be confirmed whether the F-listed solvent codes were assigned because the lab felt it was generating listed solvent waste or if the codes were assigned because the lab was analyzing the F-listed solvent waste. Therefore, until these issues can be resolved, this subpopulation is characterized as hazardous and assigned EPA Waste Codes D002, D004-D011, D018, D019, D035, D040, F002, and F005. These containers should be analyzed unless data exist that can confirm or refute this characterization. The containers are all LDR regulated.

Subpopulation 46GB includes 11 containers generated in miscellaneous residue processing. All drums are characterized as hazardous and assigned EPA Waste Code D007 (chromium) in WEMS. The WSRIC book dated September 1993 includes process outputs numbered 771-12-14, 771-12-16, and 771-27-7, sludge dissolution heel, pipe sludge, and filter plenum sludge, respectively. These WSRIC outputs were generated by the Miscellaneous Residue Processing and Plenums processes. The sludges generated by residue processing are characterized as D007 wastes because the corrosive liquids the sludges came from leached chromium from the insides of stainless-steel transfer lines. The plenum sludge is characterized as nonhazardous. According to NMC, these streams were being generated during the period from 1984 to 1989, which would coincide with dates of generation for Subpopulation GB. According to NMC, the drums of IDC 299 were most likely generated by the residue processing operation. Therefore, the group is characterized as hazardous and assigned waste code D007 until analytical data are collected that prove otherwise. The containers are also LDR regulated.

Subpopulation 46DA includes one drum generated in Building 371, according to WEMS. WEMS also indicates that the drum contains D007 waste. This drum contains grit from grit blasting of stainless steel and could contain chromium. This information could not be verified or refuted at the time this document was produced. Therefore, the drum is characterized as hazardous and assigned EPA Waste Code D007 until proven otherwise. The drum is also prohibited from land disposal.

Subpopulation 46DB includes nine drums generated in Building 777 by the Machining and Coating processes. WEMS shows these drums to be nonhazardous waste. However, since it is likely that lead shielding was the primary metal that was grit blasted, it is also unlikely that the grit waste is contaminated with lead. Therefore, this group is characterized as hazardous and assigned EPA Waste Code D008 until proven otherwise. The materials are also prohibited from land disposal.

Subpopulation 46EB includes one drum generated in the Size Reduction Vault in Building 776. Since neither the source or contents of the cemented sludge in this

drum could be determined, the WEMS characterization cannot be refuted. Therefore, this drum is characterized as D008 and is land disposal restricted. However, it is recommended that the material be sampled and analyzed to confirm the characterization.

Subpopulation 18 consists of approximately 85, IDC 292 incinerator sludge containers. EPA Codes D002, D004-D011, F001, F002, F003, and F005 were assigned to this subpopulation based on the characterization of incinerator feed materials. Based on the characterization of the feed, alcohols, glycols, halogenated solvents, and metals may have been introduced into the incinerator. Because the specific sources of the incinerator feed cannot be determined at this time, it has been assumed that the process could have accepted any of the combustible, plastic, or filter wastes currently contained in the inventory that were generated during the time the incinerator was operational.

A report was generated from the Backlog Waste Reassessment database that summarize the EPA codes assigned to inventory containers of combustibles (IDCs 330 and 336), plastics (337), and Ful-Flo filters (331) generated about the same time that the incinerator was operational. The following EPA codes were contained in the database for these wastes: D004-D011, D018, D019, D028, D029, D035, D038, F001, F002, F003, and F005. It was assumed that the F-listed solvents would have to be applied due to the "derived-from" rule. The codes for the D-listed metals were applied because these metals would be concentrated during incineration. However, it was assumed that the D-listed solvent would be volatilized and driven off in this process. Therefore, these solvents would not be present at levels exceeding Toxicity Characteristic Leaching Procedure (TCLP) limits due to the thermal treatment. This subpopulation is land disposal restricted due to the presence of RCRA metals. It is not land disposal restricted for F-listed solvents because the Best Demonstrated Available Technology (BDAT) (thermal treatment) was used to treat this waste. The EPA Code D002 has been applied, because any liquid in the waste matrix will exceed a pH of 12.5 due to the KOH. Additionally, process description and generator discussion indicates that there was no absorbent added to containers that would have absorbed the remaining liquids.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: The waste is packaged in 55-gallon drums with multiple bag liners. These are typically smaller containers within the drums.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W068	Handling:	CH	NMVP #:	N/A	Stream Name:	Particulate Sludge/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	ZZ	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3129

AS-GENERATED EPA CODES

F005, F002, D040, D035, D019, D018, D011, D010, D009, D008, D007, D006, D005, D004, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.04	0.0	0.0	0.0	0.0	0.04
Drum / 55-gallon	1.7	0.0	0.0	0.0	0.0	1.7
Totals	1.7	0.0	0.0	0.0	0.0	1.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 1.7 Projected: 0.0 Total: 1.7

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste consists of sludge type material. It is a semi-fluid material. Some of it has had cement added to it to try to solidify it.
WASTE STREAM SOURCE	This IDC has been used for sludges that were not accurately categorized as IDC 290 or 340 and could have been generated in any plutonium processing building. However, the backlog miscellaneous sludge was generated in Building 771 during the processing of residues, in Building 371 in the analytical laboratory, and in Building 883 by the Rolling Process. Process pipe sludge, sludge dissolution heel, and filter plenum sludge from Building 771 were processed through nitric acid dissolution and sparging. Soil and sludge samples from around the site were analyzed in Building 371, and the waste was stored for processing. IDC 299 materials generated in Building 883 include quench sludge and uranium oxide sludge from the rolling Process. This group also includes one container of electrochemical milling sludge generated in Building 881 in October 1987. The container is assigned IDC 292. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Subpopulation 46GA includes 15 containers generated in the Building 371 analytical labs. The WSRIC book for the building includes no IDC 299 waste streams. Until shortly after September 1993, the WSRIC book for Building 371 included a process output numbered 371-4-18 (Low-level Soil Sludges) that was assigned EPA Codes D002-D011, D018, D019, D035, D040, F001, F002, F005-F007, and F009. The current WSRIC book for Building 371 includes a new stream, 371-4-22 (Low-Level Soil Sludges), that replaced number 371-4-18, and that is characterized only as characteristic waste with EPA Waste Codes D004-D011. The WEMS characterization for this group is D007. It is assumed, therefore, that since the containers in this group were generated from 1984 to 1992, the materials are best assigned the same waste codes as the 371-4-18 stream cited above, with the exception of the plating waste codes (F006, F007, and F009), and the reactivity code (D003), because it is known that no plating waste was generated in Building 371 labs and that no reactive wastes were generated. Most likely, all 15 containers do not contain wastes that are assigned all of the codes. It is also possible that some of the remaining waste codes can be removed based on EPA guidance concerning the sample exclusion cited in Section 261.4 (d). However, it could not be determined from personnel in Building 371 whether waste stream 371-4-18 was characterized as toxic for benzene (D018), carbon tetrachloride (D019), methyl ethyl ketone (D035), and trichloroethylene (D040) based on the double listing policy previously used or if the codes were assigned because the waste actually exhibits the characteristic of toxicity for those organics. Nor could it be confirmed whether the F-listed solvent codes were assigned because the lab felt it was generating listed solvent waste or if the codes were assigned because the lab was analyzing the F-listed solvent waste. Therefore, until these issues can be resolved, this subpopulation is characterized as hazardous and assigned EPA Waste Codes D002, D004-D011, D018, D019, D035, D040, F002, and F005. These containers should be analyzed unless data exist that can confirm or refute this characterization. The containers are all LDR regulated. Subpopulation 46GB includes 11 containers generated in miscellaneous residue processing. All drums are characterized as hazardous and assigned EPA Waste Code D007 (chromium) in WEMS. The WSRIC book dated September 1993 includes process outputs numbered 771-12-14, 771-12-16, and 771-27-7, sludge dissolution heel, pipe sludge, and filter plenum sludge, respectively. These WSRIC outputs were generated by the Miscellaneous Residue Processing and Plenums processes. The sludges generated by residue processing are characterized as D007 wastes because the corrosive liquids the sludges came from leached chromium from the insides of stainless-steel transfer lines. The plenum sludge is characterized as nonhazardous. According to NMC, these streams were being generated during the period from 1984 to 1989, which would coincide with dates of generation for Subpopulation GB. According to NMC, the drums of IDC 299 were most likely generated by the residue processing operation. Therefore, the group is characterized as hazardous and assigned waste code D007 until analytical data are collected that prove otherwise. The containers are also LDR regulated. Subpopulation 46DA includes one drum generated in Building 371, according to WEMS. WEMS also indicates that the drum contains D007 waste. This drum contains grit from grit blasting of stainless steel and could contain chromium. This information could not be verified or refuted at the time this document was produced. Therefore, the drum is characterized as hazardous and assigned EPA Waste Code D007 until proven otherwise. The drum is also prohibited from land disposal. Subpopulation 46DB includes nine drums generated in Building 777 by the Machining and Coating processes. WEMS shows these drums to be nonhazardous waste. However, since it is likely that lead shielding was the primary metal that was grit blasted, it is also unlikely that the grit waste is contaminated with lead. Therefore, this group is characterized as hazardous and assigned EPA Waste Code D008 until proven otherwise. The materials are also prohibited from land disposal.

Subpopulation 46EB includes one drum generated in the Size Reduction Vault in Building 776. Since neither the source or contents of the cemented sludge in this drum could be determined, the WEMS characterization cannot be refuted. Therefore, this drum is characterized as D008 and is land disposal restricted. However, it is recommended that the material be sampled and analyzed to confirm the characterization.

Subpopulation 1B consists of approximately 85, IDC 292 incinerator sludge containers. EPA Codes D002, D004-D011, F001, F002, F003, and F005 were assigned to this subpopulation based on the characterization of incinerator feed materials. Based on the characterization of the feed, alcohols, glycols, halogenated solvents, and metals may have been introduced into the incinerator. Because the specific sources of the incinerator feed cannot be determined at this time, it has been assumed that the process could have accepted any of the combustible, plastic, or filter wastes currently contained in the inventory that were generated during the time the incinerator was operational.

A report was generated from the Backlog Waste Reassessment database that summarize the EPA codes assigned to inventory containers of combustibles (IDCs 330 and 336), plastics (337), and Ful-Flo filters (331) generated about the same time that the incinerator was operational. The following EPA codes were contained in the database for these wastes: D004-D011, D018, D019, D028, D029, D035, D038, F001, F002, F003, and F005. It was assumed that the F-listed solvents would have to be applied due to the "derived-from" rule. The codes for the D-listed metals were applied because these metals would be concentrated during incineration. However, it was assumed that the D-listed solvent would be volatilized and driven off in this process. Therefore, these solvents would not be present at levels exceeding Toxicity Characteristic Leaching Procedure (TCLP) limits due to the thermal treatment. This subpopulation is land disposal restricted due to the presence of RCRA metals. It is not land disposal restricted for F-listed solvents because the Best Demonstrated Available Technology (BDAT) (thermal treatment) was used to treat this waste. The EPA Code D002 has been applied, because any liquid in the waste matrix will exceed a pH of 12.5 due to the KOH. Additionally, process description and generator discussion indicates that there was no absorbent added to containers that would have absorbed the remaining liquids.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: The waste is packaged in 55-gallon drums with multiple bag liners. These are typically smaller containers within the drums.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W066	Handling:	CH	NMVP #:	N/A	Stream Name:	Filters & media/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Filter	Waste Matrix Code:	S5410

AS-GENERATED EPA CODES

F002, F001, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Drum / 55-gallon	37.4	0.0	0.0	0.0	0.0	37.4
Totals	37.4	0.0	0.0	0.0	0.0	37.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 37.4 Projected: 0.0 Total: 37.4

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

331 - Ful-Flo filters used to filter solids from aqueous solutions. Additional required processing undetermined. Because of the potential of liquids in this IDC, it requires a compatibility code when packaging.

WASTE STREAM SOURCE

These Ful-Flo filters are in-line cartridge filters used throughout Rocky Flats to remove particulates from fluid streams and typically filter down to 5, 1, and 0.5 micron-sized particulates. Ful-Flo filters are used in various liquid systems that include nitric- and chloride-acid systems, such as those found in plutonium recovery operations; caustic systems, such as those found in utilities scrubbing; solvent systems using carbon tetrachloride in machining operations; water systems, such as steam cleaning; and condensate collection. These filters are also used in lubricant oil filtration.

Ful-Flo filters are poly-fiber-wound cartridges, about 10" long by 3.5" in diameter. Other fiber filters, such as R-6 pads, may be included in this IDC. R-6 pads are cloth filters, about sixteen inches in diameter, used to filter solids from nitric acid solutions. Therefore, backlog material in this IDC cannot be considered homogeneous. filter elements are produced by combining a media blanket and spirally wound matrix yarn on an inner core. The filter elements might have a polypropylene cap on one end. Both the media blanket and matrix yarn can be cotton or polypropylene. The inner core material can be constructed of polypropylene, tinned steel, or stainless steel. Warehouse data from Rocky Flats indicate that the inner-core material is polypropylene.

during normal process operations, IDC 331 Ful-Flo filters in this backlog population were used to filter particulates from liquid waste streams in Buildings 371, 707, 771, 776, 777, and 779. These waste streams were primarily from filtration of caustic solutions in Building 371, the carbon tetrachloride system and oil systems, and from filtration of water and developer in Building 707. In Building 771, the primary wste streams filtered were anion column feed, potassium hydroxide, nitrate feed, spent nitric acid and hydrofluoric acid from the scrubber, eluate and effluent exiting the ion-exchange columns, floor pick-up solution, steam condensate, and miscellaneous aqueous solutions. Hydraulic oil and floor pick-up solution were filtered in Building 776. In Buildings 777 and 779, Ful-Flo filters were used in the carbon tetrachloride system for purification of Freon TF and for filtration of incoming waters.

Typically, Ful-Flo filters were placed on drying racks pending bag-out of a glovebox. Filters were not always dried before removal from the glovebox. Filters were then "bagged out" of the glovebox and placed in a second layer of plastic. Next, the filters were placed in a "Poly Bottle" or "Clam Shell" (hard plastic container), then placed in a double-lined drum.

These Ful-Flo filters may be contaminated with acids, bases, carbon tetrachloride, chromium, Freon, and oil. They may contain relatively small amounts of free liquids.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

Ful-Flo filters from various buildings are also segregated based on their generation prefixes. The generation prefix corresponds to a Material Balance Account (MBA). Specific gloveboxes in Building 771 have been identified as having nitric acid spray exposure such that "crystals" of nitrate salts have been reported to have formed on the filters causing them to meet the definition of a DOT oxidizer (EG&G 1993d). These gloveboxes were correlated to WSRIC processes and then to generation prefixes to characterize the filters generated from them.

Ful-Flo filters which filtered solutions containing chromium are included in Subpopulations BA, BE, and BH. The EPA Code D007 (chromium) does not apply because the solutions were generated from tanks and are nearly exclusively trivalent chromium. The processes did not generate hexavalent chromium, and these wastes were managed in a non-oxidizing environment (CDH 1994).

Subpopulation 54AA

Subpopulation 54AA consists of all IDC 326 filters. These six drums contain Ful-Flo filters from the Building 771 incinerator. It is assumed that all the drums contain free liquids. Because potassium hydroxide is used to neutralize acidic vapors in the incinerator, the liquid is characterized as RCRA hazardous due to exhibiting the

characteristic of corrosivity and assigned EPA Code D002. EPA Codes F001, F002, F003, and F005 are assigned because these codes have been applied to the incinerator ash which has contacted these filters.

Subpopulation 54BA

The four generation prefixes of the nine drums of IDC 331 filters generated in Building 371 indicate that all the filters could have been generated from any process in the building using Ful-Flos. These filters may contain free liquids and exhibit the characteristic of corrosivity. These filters in Subpopulation 54 BA are, therefore, RCRA hazardous and are assigned EPA Code D002.

Subpopulation 54BB

Generation Prefix 12, Module C consists of processes in Building 707 which used IDC 331 Ful-Flo filters to filter oil and carbon tetrachloride. The material filtered is based on information in WSRIC. The single container of filters in Subpopulation 54BB is RCRA hazardous because the filters contain carbon tetrachloride and EPA Code F001 is assigned

Subpopulation 54BC

Generation prefix 15 corresponds to WSRIC Process 6, Machining-Module A, in Building 707. The IDC 331 Ful-Flo filters from this process were used to filter oil and Freon, according to the WSRIC book for Building 707. These 16 containers of filters in Subpopulation 54BC are RCRA hazardous because they contain the F-listed constituent trichloro-trifluoroethane, and are assigned EPA Codes F001 and F002.

Subpopulation 54BD

Generation prefix 22 corresponds to WSRIC processes 4-7, 11-13, 18-20, 23 and 26 in Building 707. The IDC 331 Ful-Flo filters from these processes were used to filter oil, carbon tetrachloride, and Freon, according to WSRIC.

Generation prefix 23 corresponds to WSRIC processes 7,8,9,11, and 12 in Building 777. Generation prefixes 54 and 779 may include any process in Building 779. According to current and archived WSRIC information, the IDC 331 Ful-Flo filters from these processes may have been used to filter oil, carbon tetrachloride, and Freon.

These containers of filters in Subpopulation 54BD are RCRA hazardous because they contain the F-listed constituents carbon tetrachloride and trichloro-trifluoroethane. They are therefore assigned EPA Codes F001 and F002.

Subpopulation 54BE

Subpopulation 54BE consists of all IDC 331 Ful-Flo filters generated from processes in Building 771. There are 146 containers of filters in this subpopulation. These filters could have been used to filter either acidic or caustic liquids, since specific information on the point of generation for each container could not be obtained. Seventeen of these drums were checked for free liquids by Real-Time Radiography (RTR) during "courtesy" inspection in 1993. Because 16 of these drums were evaluated by RTR as having free liquids, all drums in this subpopulation are assumed to have free liquids containing acids or bases that are free liquids. These liquids may exhibit the characteristic of corrosivity, and are assigned EPA Code D002.

Subpopulation 54BF

Generation prefix 04 is used for the Building 777 Radiography Process (Process 777-10). The building of generation should be changed in WEMS from 707 to 777. Based on archived WSRIC information for Radiography, the IDC 331 Ful-Flo filters were used to filter caustic solutions. The single container of filters in Subpopulation 54BF is RCRA hazardous because the filters are assumed to contain free liquids which exhibit the characteristic of corrosivity. EPA Code D002 has therefore been assigned. Additional investigation is warranted to further evaluate if the container has free liquids.

Subpopulation 54BH

Subpopulation 54BH includes all IDC 331 Ful-Flo filters which are shown in WEMS as being generated in Building 776 with prefixes 19, 25, 26, or 57. Based on the WSRIC book for Building 776, these filters could contain acids or bases which are free liquids, and therefore could exhibit the characteristic of corrosivity. The D002 EPA Code is assigned for corrosivity. The filters might have been used to filter oil, carbon tetrachloride, and Freon; therefore, they are assigned EPA Codes F001 and F002.

Subpopulation 54CC

These containers of IDC 335 filters are identified by prefix 746, indicating that they might have been generated from anywhere in Building 774. Because the IDC 335 filters from Process 774-5 are characterized in WSRIC as hazardous and cannot be segregated from other filters in this prefix, all filters in Subpopulation 54CC must be characterized as hazardous. These filters might have been contaminated by sludges containing oil, Freon TF, carbon tetrachloride, and 1,1,1-trichloroethane, from the OASIS Process (774-5). EPA Codes F001 and F002 have therefore been applied.

Subpopulation 54EB

Subpopulation 54EB consists of IDC 342 filters generated from processes in Building 771 assigned to prefixes 02 and 74. This subpopulation includes 62 containers of acid-contaminated glovebox HEPA filters. The following gloveboxes have been determined to have had nitric acid spray exposure, and it has been reported that nitrate salt crystals from on HEPA filters from these gloveboxes, causing the filters to meet the DOT definition of an oxidizer.

Gloveboxes A-1, A-2, A-3, and A-4 in Room 174
Gloveboxes 13, 14, and 15 in Room 114
Glovebox 29 in Room 149

The gloveboxes in Room 174 are associated with the OY Leach Process which corresponds to prefix 74. The gloveboxes in Rooms 114 and 149 are associated with Batching, Precipitation, and other processes corresponding to prefix 02.

Because the containers cannot be segregated according to the source of the filters within prefixes 02 and 74, all filters from these prefixes are assumed to be hazardous. These filters have been used to filter air from gloveboxes in which nitric acid has been used and could exhibit the characteristic of ignitability due to the presence of nitric acid. Nitric acid crystals have been observed on these filters. They are, therefore, assigned EPA Code D001.

Subpopulation 54IA

Subpopulation 54IA consists of all IDC 492 HEPA filters. There are two containers in this subpopulation. The filters are not characteristic of corrosivity because they are not in liquid form. These filters are, therefore, RCRA-nonhazardous. The CCC of 02 is applied due to the contact of these filters with acid vapors.

Other EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: Filter waste is packaged in 55-gallon drums and metal standard waste boxes.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W065	Handling:	CH	NMVP #:	N/A	Stream Name:	Calcium Metal/TRM	Inventory Date:	
Local ID:	IDC 333	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	X7590

AS-GENERATED EPA CODES

D003

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	IDC 333. This material is elemental calcium pellets used in plutonium reduction operations.
WASTE STREAM SOURCE	This IDC consists primarily of partially oxidized or hydrated calcium metal generated as a residue from the reduction of plutonium tetrafluoride to plutonium metal using calcium metal as the reductant. This reduction operation was performed in a reaction vessle within Glovebox (Line) 17 in Building 771. Magnesium oxide sand was used as an insulating material in the annulus between a magnesium oxide crucible and the reaction vessel wall. Plutonium tetrafluoride, calcium metal, and a pyrotechnic initiator (magnesium metal, sodium peroxide, and potassium iodate) were placed in the magnesium oxide crucible. The reduction vessel was then sealed, placed in an induction furnace, purged with argon, and heated until the reaction initiated. After the reduction vessel had cooled, the vessel was opened and the materials were separated. Calcium metal residue is generated from the cleanup of calcium metal spillage on the glovebox floor. Calcium metal is placed in metal cans for removal from the glovebox. After the cans are bagged out, they are assayed individually. The cans are placed in drums or vaults for storage.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Process knowledge based upon general knowledge of waste type or source (e.g., there is some probability of a waste constituent being present or absent). Item Description Code 333 There is no analytical information for this waste form that will assist in Resource Conservation and Recovery Act (RCRA) characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 (EG&G 1992). WSRIC Waste Stream 771-11-17, IDC 333, is also characterized as D003 waste. The IDC 333 Calcium Metal Residue Analysis Study concurs with the D003 characterization (KMI 1992a). According to the Hazardous Chemicals Desk Reference, calcium exhibits the following properties: "Flammable when heated or in intimate contact with moisture or acids...reacts with moisture or acids to liberate large quantities of hydrogen; can develop explosive pressure in containers...violent reaction with water may evolve explosive hydrogen gas." IDC 333 is Subpopulation 59A and was identified based on specific process knowledge. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal waste is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water. Based on this information, the waste exhibits the characteristic of reactivity (D003) as defined by 6 CCR 1007-3, Part 261.23. In addition, the Colorado Department of Health (CDH) has interpreted RCRA-reactivity as a condition that requires three key elements: a high reaction rate, containment of the reaction, and an ingition source, and there must be a high probability of these elements occurring at the same time (DOE 1994).
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55 gallon carbon steel drums.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W067	Handling:	CH	NMVP #:	N/A	Stream Name:	Cemented filters/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Filter	Waste Matrix Code:	S5410

AS-GENERATED EPA CODES

D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Drum / 55-gallon	21.6	0.0	0.0	0.0	0.0	21.6
Totals	21.6	0.0	0.0	0.0	0.0	21.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 21.6 Projected: 0.0 Total: 21.6

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste consists of filters used in ventilation systems. Some of it has had cement sprinkled on it to neutralize the acid on the filters.
WASTE STREAM SOURCE	The material in this IDC is either the filter media portion of HEPA filters or surface-water filters. HEPA filters are used on gloveboxes and in large filter plenums. Sock filters were used to prefilter operable unit 2 (OU-2) surface water prior to activated carbon treatment. Used HEPA filters were processed to segregate those portions with high plutonium content and those with low content. The wood frames were separated from the media and almost always disposed of as waste by packing in drums that were assigned IDC 330. the filter media pieces were identified as IDC 338 if they were high in radioactivity and packaged and stored for future recovery of the plutonium. If the pieces of media were low in radioactivity, they were identified as IDC 376 and packaged for shipment as waste. This filter media can be free of acid contamination or can be heavily contaminated with acid residue. It can also be moist or dry. It could have originated from the production Building 707 and could be contaminated with used solvents such as trichloroethane, carbon tetrachloride, and Freon. IDC 338 was meant to be used as a residue IDC and not as a waste IDC. Because sorting between IDCs was not accurate, some of the IDC 338 backlog containers are below the economic discard limit (EDL) and are therefore not residue. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation, Maintenance, Analytical Laboratories, R&D Laboratories, D&D, and limited Emergency Response actions.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Subpopulation DB Subpopulation DB consists of IDC 338 filter media that could have been exposed to saltcrete in Building 374. Room 3809 was used for Saltcrete Processing (WSRIC Process 374-5). HEPA filters were used to filter nitrate salt particles from the baghouse air stream. The single container of filters in this subpopulation is characterized as RCRA hazardous, and its characterization is based on the current WSRIC characterization for saltcrete. EPA Codes F001, F002, F003, F005, F006, F007, F009, and F039 have therefore been applied. The EPA Code D001 is applied because nitrate salts may have formed on these filters. Subpopulation DC Subpopulation DC includes all IDC 338 filter media generated from Building 771. There are 111 containers in this subpopulation. This filter medium might be derived from IDC 342 filters (acid contaminated-see Subpopulations EB and EC), and is characterized the same as the IDC 342 filters from Subpopulation EB. Because this filter medium might have been used to filter nitric acid and nitric salts have been reported to form on the filter media, it could exhibit the characteristic of ignitability and is considered to be an oxidizer due to the presence of nitrate salts. This filter medium is a RCRA-hazardous waste and EPA Code D001 has been applied. Subpopulation FA Subpopulation FA includes containers of IDC 376 processed filter media generated throughout Rocky Flats that are characterized as nonhazardous. This processed filter medium is derived from filters generated from processes for which there would be no "carry over" of solvent contamination from vapors. Exclusion of filters from "carry over" contamination is based on WSRIC information and a Waste Technical Support Memorandum. The memorandum states that these HEPA filters are nonhazardous unless RCRA hazardous liquids have condensed from the uncontained gases. It is assumed that these containers do not have free liquids.

MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: Filter waste is packaged in 55-gallon drums and metal standard waste boxes.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W066	Handling:	CH	NMVP #:	N/A	Stream Name:	Filters & media/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Filter	Waste Matrix Code:	S5410

AS-GENERATED EPA CODES

D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

Container	As-Generated Waste Form Volumes: Stored	Pre-97	98-02	03-12	13-22	Totals	Final Waste Form Volumes: Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	2.3	0.0	0.0	0.0	0.0	2.3							
Totals	2.3	0.0	0.0	0.0	0.0	2.3							

As-Generated Form: Stored: 2.3 Projected: 0.0 Total: 2.3

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION 342 - Drybox filters from all acid lines. This waste must be neutralized, then changed to IDC 815 to disposal.

WASTE STREAM SOURCE HEPA filters are used on all gloveboxes to remove particulates from the atmosphere exiting the glovebox to the plenum exhaust system. The filters in IDC 342 are from gloveboxes with atmospheres that could cause the filters to be contaminated with acids or bases used in chemical processing.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

This waste form is generated from Facility/Equipment Operation, Maintenance, Analytical Laboratories, R&D Laboratories, and D&D.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS Ful-Flo filters from various buildings are also segregated based on their generation prefixes. The generation prefix corresponds to a Material Balance Account (MBA). Specific gloveboxes in Building 771 have been identified as having nitric acid spray exposure such that "crystals" of nitrate salts have been reported to have formed on the filters causing them to meet the definition of a DOT oxidizer (EG&G 1993d). These gloveboxes were correlated to WSRIC processes and then to generation prefixes to characterize the filters generated from them.

Ful-Flo filters which filtered solutions containing chromium are included in Subpopulations BA, BE, and BH. The EPA Code D007 (chromium) does not apply because the solutions were generated from tanks and are nearly exclusively trivalent chromium. The processes did not generate hexavalent chromium, and these wastes were managed in a non-oxidizing environment (CDH 1994).

Subpopulation 54AA

Subpopulation 54AA consists of all IDC 328 filters. These six drums contain Ful-Flo filters from the Building 771 incinerator. It is assumed that all the drums contain free liquids. Because potassium hydroxide is used to neutralize acidic vapors in the incinerator, the liquid is characterized as RCRA hazardous due to exhibiting the characteristic of corrosivity and assigned EPA Code D002. EPA Codes F001, F002, F003, and F005 are assigned because these codes have been applied to the incinerator ash which has contacted these filters.

Subpopulation 54BA

The four generation prefixes of the nine drums of IDC 331 filters generated in Building 371 indicate that all the filters could have been generated from any process in the building using Ful-Flos. These filters may contain free liquids and exhibit the characteristic of corrosivity. These filters in Subpopulation 54 BA are, therefore, RCRA hazardous and are assigned EPA Code D002.

Subpopulation 54BB

Generation Prefix 12, Module C consists of processes in Building 707 which used IDC 331 Ful-Flo filters to filter oil and carbon tetrachloride. The material filtered is based on information in WSRIC. The single container of filters in Subpopulation 54BB is RCRA hazardous because the filters contain carbon tetrachloride and EPA Code F001 is assigned

Subpopulation 54BC

Generation prefix 15 corresponds to WSRIC Process 6, Machining-Module A, in Building 707. The IDC 331 Ful-Flo filters from this process were used to filter oil and Freon, according to the WSRIC book for Building 707. These 16 containers of filters in Subpopulation 54BC are RCRA hazardous because they contain the F-listed constituent trichloro-trifluoroethane, and are assigned EPA Codes F001 and F002.

Subpopulation 54BD

Generation prefix 22 corresponds to WSRIC processes 4-7, 11-13, 18-20, 23 and 26 in Building 707. The IDC 331 Ful-Flo filters from these processes were used to filter oil, carbon tetrachloride, and Freon, according to WSRIC.

Generation prefix 23 corresponds to WSRIC processes 7,8,9,11, and 12 in Building 777. Generation prefixes 54 and 779 may include any process in Building 779. According to current and archived WSRIC information, the IDC 331 Ful-Flo filters from these processes may have been used to filter oil, carbon tetrachloride, and Freon.

These containers of filters in Subpopulation 54BD are RCRA hazardous because they contain the F-listed constituents carbon tetrachloride and trichlorotrifluoroethane. They are therefore assigned EPA Codes F001 and F002.

Subpopulation 54BE

Subpopulation 54BE consists of all IDC 331 Ful-Flo filters generated from processes in Building 771. There are 146 containers of filters in this subpopulation. These filters could have been used to filter either acidic or caustic liquids, since specific information on the point of generation for each container could not be obtained. Seventeen of these drums were checked for free liquids by Real-Time Radiography (RTR) during "courtesy" inspection in 1993. Because 16 of these drums were evaluated by RTR as having free liquids, all drums in this subpopulation are assumed to have free liquids containing acids or bases that are free liquids. These liquids may exhibit the characteristic of corrosivity, and are assigned EPA Code D002.

Subpopulation 54BF

Generation prefix 04 is used for the Building 777 Radiography Process (Process 777-10). The building of generation should be changed in WEMS from 707 to 777. Based on archived WSRIC information for Radiography, the IDC 331 Ful-Flo filters were used to filter caustic solutions. The single container of filters in Subpopulation 54BF is RCRA hazardous because the filters are assumed to contain free liquids which exhibit the characteristic of corrosivity. EPA Code D002 has therefore been assigned. Additional investigation is warranted to further evaluate if the container has free liquids.

Subpopulation 54BH

Subpopulation 54BH includes all IDC 331 Ful-Flo filters which are shown in WEMS as being generated in Building 776 with prefixes 19, 25, 26, or 57. Based on the WSRIC book for Building 776, these filters could contain acids or bases which are free liquids, and therefore could exhibit the characteristic of corrosivity. The D002 EPA Code is assigned for corrosivity. The filters might have been used to filter oil, carbon tetrachloride, and Freon; therefore, they are assigned EPA Codes F001 and F002.

Subpopulation 54CC

These containers of IDC 335 filters are identified by prefix 746, indicating that they might have been generated from anywhere in Building 774. Because the IDC 335 filters from Process 774-5 are characterized in WSRIC as hazardous and cannot be segregated from other filters in this prefix, all filters in Subpopulation 54CC must be characterized as hazardous. These filters might have been contaminated by sludges containing oil, Freon TF, carbon tetrachloride, and 1,1,1-trichloroethane, from the OASIS Process (774-5). EPA Codes F001 and F002 have therefore been applied.

Subpopulation 54EB

Subpopulation 54EB consists of IDC 342 filters generated from processes in Building 771 assigned to prefixes 02 and 74. This subpopulation includes 62 containers of acid-contaminated glovebox HEPA filters. The following gloveboxes have been determined to have had nitric acid spray exposure, and it has been reported that nitrate salt crystals from on HEPA filters from these gloveboxes, causing the filters to meet the DOT definition of an oxidizer.

Gloveboxes A-1, A-2, A-3, and A-4 in Room 174
Gloveboxes 13, 14, and 15 in Room 114
Glovebox 29 in Room 149

The gloveboxes in Room 174 are associated with the OY Leach Process which corresponds to prefix 74. The gloveboxes in Rooms 114 and 149 are associated with Batching, Precipitation, and other processes corresponding to prefix 02.

Because the containers cannot be segregated according to the source of the filters within prefixes 02 and 74, all filters from these prefixes are assumed to be hazardous. These filters have been used to filter air from gloveboxes in which nitric acid has been used and could exhibit the characteristic of ignitability due to the presence of nitric acid. Nitric acid crystals have been observed on these filters. They are, therefore, assigned EPA Code D001.

Subpopulation 54IA

Subpopulation 54IA consists of all IDC 492 HEPA filters. There are two containers in this subpopulation. The filters are not characteristic of corrosivity because they are not in liquid form. These filters are, therefore, RCRA-nonhazardous. The CCC of 02 is applied due to the contact of these filters with acid vapors.

Other EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: Filter waste is packaged in 55-gallon drums and metal standard waste boxes.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W058	Handling:	CH	NMVP #:	N/A	Stream Name:	Misc. Pu Recovery Byproducts/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Salt Waste	Waste Matrix Code:	S3141

AS-GENERATED EPA CODES

D003

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.03	0.0	0.0	0.0	0.0	0.03
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.03 Projected: 0.0 Total: 0.03

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION Its composition includes chunks and powdered mixed salts, a probable presence of magnesium, sodium and potassium metals.

WASTE STREAM SOURCE

Calcined plutonium oxide was placed in a magnesium oxide crucible with calcium chloride and calcium metal. The crucible and contents were placed in a furnace and heated until the contents were molten. The molten material was stirred to initiate and promote the reduction of the plutonium oxide. After the reaction, the melt was allowed to separate into plutonium metal and salt phases. After cooling, the crucible was broken and separated from the salt, calcium, and plutonium metal. This process produced IDCs 365 and 414.

IDCs 365 and 414 are composed primarily of calcium chloride, calcium oxide, calcium metal entrained in the salt, and various plutonium compounds. A "button" of excess calcium may also be present in some containers of these salts. IDC 365 was produced by a failed DOR run and is expected to contain higher levels of plutonium oxide and calcium metal than IDC 414.

RE: Section 6.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

This waste form is generated from Facility/Equipment Operation and R&D Laboratories.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

Hazardous Waste Determination and Waste Characterization

The primary sources of information for characterizing pyrochemical salts were two position papers, Reactivity of Pyrochemical Salts at Rocky Flats, and Presence of Chromium in Pyrochemical Salts at Rocky Flats. A memorandum from the DOE Rocky Flats Office regarding the Colorado Department of Health's (CDH's) perspective on the definition of reactivity pursuant to the Colorado Hazardous Waste Regulations, 6 CCR 1007-3, was used, as was a letter from EG&G regarding the CDH reactivity definition.

Subpopulation 34A

IDC 411, were generated from the ER process. Magnesium metal may be entrained in the salt. These salts may also contain sodium and potassium metal that was produced during the electrolysis of the molten salt mixture. Dissolution of these salts has occurred at Rocky Flats during R&D activities, and hydrogen gas generation has been observed. These dissolutions were always conducted under controlled conditions with extreme caution to account for the hydrogen gas generation, and no ignition of the hydrogen gas occurred during these dissolutions. These salts do not react "violently" with water, they do not generate toxic gases when mixed with water, and the possibility of water entering a container of these salts and forming an explosive mixture of hydrogen and oxygen is unlikely.

Based on this information, these salts do not exhibit the characteristic of reactivity (D003) as defined by 6 CCR 1007-3, Part 261.23. In addition, CDH has interpreted RCRA-reactivity as a condition that requires three key elements: a high reaction rate, containment of the reaction, and an ignition source, and there must be high probability of these elements occurring at the same time.

None of the above IDCs exhibit the characteristic of toxicity for chromium (D007) as defined by 6 CCR 1007-3, Part 261.24. Thermodynamic calculations conclude that chromium could exist only in insignificant amounts in the salt after the reactions, as chromium would alloy with the plutonium metal.

Subpopulation 34H

IDCs 405-410 were generated from the MSE process. Only magnesium metal and nonreactive metals are entrained in the salt. Testing has shown that the reaction of these salts in water is not "violent" and does not create enough heat to ignite the small amount of hydrogen that is produced. Therefore, these salts do not exhibit the characteristic of reactivity as defined in Subpopulations A-C. These salts also do not exhibit the characteristic of toxicity for chromium as explained in Subpopulations A-C.

Subpopulation 34Q

IDCs 404 and 412 were generated from the Pyroredox Process and contain calcium chloride and zinc chloride which are hygroscopic. As a result, these wastes could have absorbed enough water to contain some free liquid. Testing has shown that the pH of a surrogate sample composed of calcium chloride and zinc chloride is about three, which does not meet the definition of corrosivity (D002) in 6 CCR 1007-3, Part 261.22(a)(1). In addition, testing has demonstrated that the liquid does not corrode steel at a rate greater than 0.250 inches per year. Therefore, the material does not exhibit the characteristic of corrosivity as defined by 6 CCR 1007-3, Part 261.22(a)(2).

Zinc and calcium metal may be entrained in these salts. Sodium and potassium metal may also be present due to the reduction of these metals by the excess calcium metal. However, there is a low probability that any unreacted metals are still present in these salts. Therefore, they would not meet the CDH conditions for reactivity. As a result, these salts do not exhibit the characteristics of reactivity or toxicity for chromium as defined in Subpopulations A-C.

Subpopulation 34S

IDCs 365 and 414 were generated from the DOR process. Calcium metal is entrained in these salts and a "button" of calcium metal may also be packaged with the salt. IDC 365 was produced by a failed DOR run and is expected to contain higher levels of plutonium oxide and calcium metal than IDC 414. When exposed to water, significantly more hydrogen may be generated by these salts if the calcium metal button present as calcium metal does not passivate when immersed in water, but continues to generate hydrogen until the calcium metal is entirely consumed. These salts have been in storage at RFP in ambient atmosphere for several years, and it is suspected that reaction with water has already occurred on the surface of the calcium metal from water present in the air, resulting in some loss of metal and hydrogen gas generation.

Other EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55 gallon drums, DOE 7A TYPE A, Carbon Steel.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W067	Handling:	CH	NMVP #:	RF 119	Stream Name:	Cemented filters/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Filter	Waste Matrix Code:	S5410

AS-GENERATED EPA CODES

F005, F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

RF 119

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.00 Projected: 0.0 Total: 0.00

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

This waste consists of filters used in ventilation systems. Some of it has had cement sprinkled on it to neutralize the acid on the filters.

WASTE STREAM SOURCE

The materials in this IDC is the filter media portion of acid-contaminated glovebox or plenum HEPA filters of Ful-Flo filters with free liquids. Processing was performed in the Site Reduction Vaults in Building 776.

Used HEPA filters were processed to separate any portions containing high plutonium content from portions with low content. The wood frames were separated from the media and usually disposed of as waste by packing in a drum that was assigned IDC 330. The filter media pieces were identified as IDC 338 if they were high in radioactivity and packaged and stored for future recovery of the plutonium. If the pieces of media were low in radioactivity, they were identifies as IDC 376 and packaged for shipment as waste. the media were placed in crates, Portland cement was added, then crates were sealed. some IDC 376 material could be the remaining material after the IDC 338 media were processed to recover the plutonium.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

The waste form is generated from Facility/Equipment Operation, Maintenance, Analytical Laboratories, R&D Laboratories, D&D, and limited Emergency Response actions.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

Subpopulation DB

Subpopulation DB consists of IDC 338 filter media that could have been exposed to saltcrete in Building 374. Room 3809 was used for Saltcrete Processing (WSRIC Process 374-5). HEPA filters were used to filter nitrate salt particles from the baghouse air stream. The single container of filters in this subpopulation is characterized as RCRA hazardous, and its characterization is based on the current WSRIC characterization for saltcrete. EPA Codes F001, F002, F003, F005, F006, F007, F009, and F039 have therefore been applied. The EPA Code D001 is applied because nitrate salts may have formed on these filters.

Subpopulation DC

Subpopulation DC includes all IDC 338 filter media generated from Building 771. There are 111 containers in this subpopulation. This filter medium might be derived from IDC 342 filters (acid contaminated-see Subpopulations EB and EC), and is characterized the same as the IDC 342 filters from Subpopulation EB. Because this filter medium might have been used to filter nitric acid and nitric salts have been reported to form on the filter media, it could exhibit the characteristic of ignitability and is considered to be an oxidizer due to the presence of nitrate salts. This filter medium is a RCRA-hazardous waste and EPA Code D001 has been applied.

Subpopulation FA

Subpopulation FA includes containers of IDC 376 processed filter media generated throughout Rocky Flats that are characterized as nonhazardous. This processed filter medium is derived from filters generated from processes for which there would be no "carry over" of solvent contamination from vapors. Exclusion of filters from "carry over" contamination is based on WSRIC information and a Waste Technical Support Memorandum. The memorandum states that these HEPA filters are nonhazardous unless RCRA hazardous liquids have condensed from the uncontained gases. It is assumed that these containers do not have free liquids.

MANAGEMENT COMMENTS

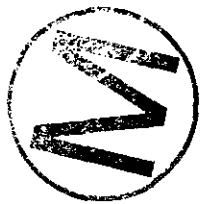
N/A

ACCEPTANCE COMMENTS

RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: Filter waste is packaged in 55-gallon drums and metal standard waste boxes.

FINAL FORM COMMENTS



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W059	Handling:	CH	NMVP #:	N/A	Stream Name:	Sand, Slag, and Crucible/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3119

AS-GENERATED EPA CODES

D007

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 4-liter	0.01	0.0	0.0	0.0	0.0	0.01
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.01 Projected: 0.0 Total: 0.01

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

This waste form consists of material that is fine particulates to larger chunks. There is sand, and crucible shards from the break-out process.

WASTE STREAM SOURCE

IDC 387, reburned SS&C sweepings, is generated from the cleanup of the Plutonium Tetrafluoride Reduction Process within Glovebox (Line) 17 in Building 771. The fine material (sand, slag, and crucible) is swept from the glovebox floor and is placed in metal cans for transfer to Glovebox (Line) 22. In Glovebox 22, the sweepings are heated in an Inconel pan on a hotplate to oxidize plutonium metal that may be present in the sweepings. The reburned sweepings are stored in metal cans prior to plutonium recovery by dissolution.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

This waste form is generated from Facility/Equipment Operation and R&D Laboratories.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

Hazardous Waste Determination and Waste Characterization

Item Description Code 387

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D007. This IDC does not appear in active or archived WSRIC information. The IDC 387 Reburned SS&C Sweepings Residue Analysis Study concurs with the D007 characterization.

IDC 387 is Subpopulation 59B and was identified based on specific process knowledge. The heating of the sweepings on the hotplate will oxidize any calcium metal fines that are part of the sweepings. Operational personnel have observed flaking of the Inconel pan after repeated heating and cooling cycles. Inconel is approximately thirteen percent chromium according to the Materials Handbook. The reburned sweepings are conservatively assigned D007 based on the unknown level of chromium contamination from the Inconel flaking.

Item Description Code 390

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 390 Unpulverized Slag Residue Analysis Study provides a D003 characterization based on IDC 390 being derived from IDC 392, which is characterized as D003 in the 1992 WSRIC book.

IDC 390 is Subpopulation 59C and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 390.

Unpulverized slag is known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water. Therefore, this waste exhibits the characteristic of reactivity (D003).

Item Description Code 391

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 391 Unpulverized Sand and Crucible Residue Analysis Study characterizes the waste form with EPA Code D003 only.

IDC 391 is Subpopulation 59D and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 391.

Unpulverized sand and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water.

Item Description Code 392

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. WSRIC Waste Stream 771-11-12, IDC 392, is also characterized as D003 waste. The IDC 392 Unpulverized Sand, Slag, and Crucible Residue Analysis Study provides a D003 characterization based on the WSRIC Book.

IDC 392 is Subpopulation 39E and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 392.

Unpulverized sand, slag, and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water.

Item Description Code 393

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D007. WSRIC Waste Stream 771-2-6, IDC 393, is also characterized as D007 waste. The IDC 393 Sand, Slag, and Crucible Heel Residue Analysis Study concurs with the D007 characterization.

IDC 393 is Subpopulation 59F and was identified based on specific process knowledge. The grinding and dissolution will oxidize or hydrate any calcium metal fines that are part of the sand, slag, and crucible. Chromium can be added to the heel from the corrosion of the stainless steel in the dissolution process area. The heels are conservatively assigned D007 based on the unknown level of chromium contamination from the acid corrosion of stainless steel.

Item Description Code 395

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 395 Unpulverized Slag and Crucible Residue Analysis Study assigns a D003 characterization based on IDC 395 being derived from IDC 392.

IDC 395 is Subpopulation 59G and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 395.

Unpulverized slag and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water. Therefore, this waste exhibits the characteristic of reactivity (D003).

MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	LDR_DETERM: Net and gross weight data are not available for all container types. RFP has determined this waste to be LDR based on process knowledge characterization. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Variability surrounding fullness of containers precludes a meaningful computation of density. 2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55-gallon drum DOT 7A TYPE A, Carbon Steel.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W059	Handling:	CH	NMVP #:	N/A	Stream Name:	sand, Slag and Crucible/TRU	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3119

AS-GENERATED EPA CODES

D003

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.8 Projected: 0.0 Total: 0.8

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

This waste form consists of material that is fine particulates to larger chunks. There is sand, and crucible shards from the break-out process.

WASTE STREAM SOURCE

IDC 390 consists primarily of unpulverized slag generated as a residue from the reduction of plutonium tetrafluoride to plutonium metalusing calcium metal as the reductant. This reduction operation was performed in a reaction vessel within Glovebox (Line) 17 in Building 771.

The unpulverized slag is generated from the separation of calciu fluoride slag from the sand and crucible residues following the removal of the plutonium metal button. Calcium fluoride is produced from the reaction of the calcium metal with the plutonium fluoride.

Unpulverized slag is placed in 4-liter, wide-mouth, polyethylene bottles for removal from the glovebox. After the bottles are bagged out, they are assayed individually. The bottles are stored awaiting crushing prior to plutonium recovery by dissolution.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

This waste form is generated from Facility/Equipment Operation and R&D Laboratories.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

Hazardous Waste Determination and Waste Characterization

Item Description Code 387

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D007. This IDC does not appear in active or archived WSRIC information. The IDC 387 Reburned SS&C Sweepings Residue Analysis Study concurs with the D007 characterization.

IDC 387 is Subpopulation 59B and was identified based on specific process knowledge. The heating of the sweepings on the hotplate will oxidize any calcium metal fines that are part of the sweepings. Operational personnel have observed flaking of the Inconel pan after repeated heating and cooling cycles. Inconel is approximately thirteen percent chromium according to the Materials Handbook. The reburned sweepings are conservatively assigned D007 based on the unknown level of chromium contamination from the Inconel flaking.

Item Description Code 390

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 390 Unpulverized Slag Residue Analysis Study provides a D003 characterization based on IDC 390 being derived from IDC 392, which is characterized as D003 in the 1992 WSRIC book.

IDC 390 is Subpopulation 59C and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 390.

Unpulverized slag is known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water. Therefore, this waste exhibits the characteristic of reactivity (D003).

Item Description Code 391

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 391 Unpulverized Sand and Crucible Residue Analysis Study characterizes the waste form with EPA Code D003 only.

IDC 391 is Subpopulation 59D and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 391.

Unpulverized sand and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water.

Item Description Code 392

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. WSRIC Waste Stream 771-11-12, IDC 392, is also characterized as D003 waste. The IDC 392 Unpulverized Sand, Slag, and Crucible Residue Analysis Study provides a D003 characterization based on the WSRIC Book.

IDC 392 is Subpopulation 39E and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 392.

Unpulverized sand, slag, and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water.

Item Description Code 393

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D007. WSRIC Waste Stream 771-2-6, IDC 393, is also characterized as D007 waste. The IDC 393 Sand, Slag, and Crucible Heel Residue Analysis Study concurs with the D007 characterization.

IDC 393 is Subpopulation 59F and was identified based on specific process knowledge. The grinding and dissolution will oxidize or hydrate any calcium metal fines that are part of the sand, slag, and crucible. Chromium can be added to the heel from the corrosion of the stainless steel in the dissolution process area. The heels are conservatively assigned D007 based on the unknown level of chromium contamination from the acid corrosion of stainless steel.

Item Description Code 395

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 395 Unpulverized Slag and Crucible Residue Analysis Study assigns a D003 characterization based on IDC 395 being derived from IDC 392.

IDC 395 is Subpopulation 59G and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 395.

Unpulverized slag and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas

when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water. Therefore, this waste exhibits the characteristic of reactivity (D003).

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS LDR_DETERM: Net and gross weight data are not available for all container types.

RFP has determined this waste to be LDR based on process knowledge characterization. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Variability surrounding fullness of containers precludes a meaningful computation of density.

2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55-gallon drum DOT 7A TYPE A, Carbon Steel.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W059	Handling:	CH	NMVP #:	N/A	Stream Name:	Sand, Slag and Crucible/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3119

AS-GENERATED EPA CODES

D003

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

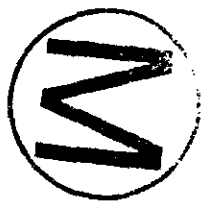
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.3	0.0	0.0	0.0	0.0	0.3
Drum / 55-gallon	5.6	0.0	0.0	0.0	0.0	5.6
Totals	5.9	0.0	0.0	0.0	0.0	5.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 5.9 Projected: 0.0 Total: 5.9

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0



WASTE STREAM DESCRIPTION

This waste form consists of material that is fine particulates to larger chunks. There is sand, and crucible shards from the break-out process.

WASTE STREAM SOURCE

IDC 391 consists primarily of unpulverized sand and crucible generated as a residue from the reduction of plutonium tetrafluoride to plutonium metal, using calcium metal as the reductant. This reduction operation was performed in a reaction vessel within Glovebox (Line) 17 in Building 771.

The unpulverized sand and crucible are generated from the separation of sand and crucible residues from the calcium fluoride slag following the removal of the plutonium metal button.

Unpulverized sand and crucible is placed in 4-liter, wide-mouth, polyethylene bottles for removal from the glovebox. After the bottles are bagged out, they are assayed individually. The bottles are stored awaiting crushing prior to plutonium recovery by dissolution.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

This waste form is generated from Facility/Equipment Operation and R&D Laboratories.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

Hazardous Waste Determination and Waste Characterization

Item Description Code 387

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D007. This IDC does not appear in active or archived WSRIC information. The IDC 387 Reburned SS&C Sweepings Residue Analysis Study concurs with the D007 characterization.

IDC 387 is Subpopulation 59B and was identified based on specific process knowledge. The heating of the sweepings on the hotplate will oxidize any calcium metal fines that are part of the sweepings. Operational personnel have observed flaking of the Inconel pan after repeated heating and cooling cycles. Inconel is approximately thirteen percent chromium according to the Materials Handbook. The reburned sweepings are conservatively assigned D007 based on the unknown level of chromium contamination from the Inconel flaking.

Item Description Code 390

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 390 Unpulverized Slag Residue Analysis Study provides a D003 characterization based on IDC 390 being derived from IDC 392, which is characterized as D003 in the 1992 WSRIC book.

IDC 390 is Subpopulation 59C and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 390.

Unpulverized slag is known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water. Therefore, this waste exhibits the characteristic of reactivity (D003).

Item Description Code 391

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 391 Unpulverized Sand and Crucible Residue Analysis Study characterizes the waste form with EPA Code D003 only.

IDC 391 is Subpopulation 59D and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 391.

Unpulverized sand and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water.

Item Description Code 392

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. WSRIC Waste Stream 771-11-12, IDC 392, is also characterized as D003 waste. The IDC 392 Unpulverized Sand, Slag, and Crucible Residue Analysis Study provides a D003 characterization based on the WSRIC Book.

IDC 392 is Subpopulation 39E and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 392.

Unpulverized sand, slag, and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water.

Item Description Code 393

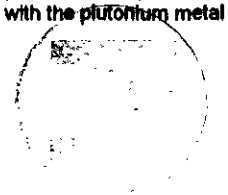
There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D007. WSRIC Waste Stream 771-2-6, IDC 393, is also characterized as D007 waste. The IDC 393 Sand, Slag, and Crucible Heel Residue Analysis Study concurs with the D007 characterization.

IDC 393 is Subpopulation 59F and was identified based on specific process knowledge. The grinding and dissolution will oxidize or hydrate any calcium metal fines that are part of the sand, slag, and crucible. Chromium can be added to the heel from the corrosion of the stainless steel in the dissolution process area. The heels are conservatively assigned D007 based on the unknown level of chromium contamination from the acid corrosion of stainless steel.

Item Description Code 395

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 395 Unpulverized Slag and Crucible Residue Analysis Study assigns a D003 characterization based on IDC 395 being derived from IDC 392.

IDC 395 is Subpopulation 59G and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 395.



Unpulverized slag and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water. Therefore, this waste exhibits the characteristic of reactivity (D003).

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS

LDR_DETERM: Net and gross weight data are not available for all container types.

RFP has determined this waste to be LDR based on process knowledge characterization. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Variability surrounding fullness of containers precludes a meaningful computation of density.

2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55-gallon drum DOT 7A TYPE A, Carbon Steel.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W059	Handling:	CH	NMVP #:	N/A	Stream Name:	Sand, Slag and Crucible/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3119

AS-GENERATED EPA CODES

D003

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.1	0.0	0.0	0.0	0.0	0.1
Drum / 55-gallon	12.9	0.0	0.0	0.0	0.0	12.9
Totals	13.0	0.0	0.0	0.0	0.0	13.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 13.0 Projected: 0.0 Total: 13.0

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

This waste form consists of material that is fine particulates to larger chunks. There is sand, and crucible shards from the break-out process.

WASTE STREAM SOURCE

IDC 392 consists of unseparated IDC 391 materials.

Unpulverized sand, slag, and crucible are placed in 4-liter, wide-mouthed, polyethylene bottles for removal from the glovebox. After the containers are bagged out, they are assayed individually. The sand, slag, and crucible are stored awaiting crushing prior to plutonium recovery by dissolution.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

This waste form is generated from Facility/Equipment Operation and R&D Laboratories.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

Hazardous Waste Determination and Waste Characterization

Item Description Code 387

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D007. This IDC does not appear in active or archived WSRIC information. The IDC 387 Returned SS&C Sweepings Residue Analysis Study concurs with the D007 characterization.

IDC 387 is Subpopulation 59B and was identified based on specific process knowledge. The heating of the sweepings on the hotplate will oxidize any calcium metal fines that are part of the sweepings. Operational personnel have observed flaking of the Inconel pan after repeated heating and cooling cycles. Inconel is approximately thirteen percent chromium according to the Materials Handbook. The returned sweepings are conservatively assigned D007 based on the unknown level of chromium contamination from the Inconel flaking.

Item Description Code 390

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 390 Unpulverized Slag Residue Analysis Study provides a D003 characterization based on IDC 390 being derived from IDC 392, which is characterized as D003 in the 1992 WSRIC book.

IDC 390 is Subpopulation 59C and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 390.

Unpulverized slag is known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water. Therefore, this waste exhibits the characteristic of reactivity (D003).

Item Description Code 391

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 391 Unpulverized Sand and Crucible

Residue Analysis Study characterizes the waste form with EPA Code D003 only.

IDC 391 is Subpopulation 59D and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 391.

Unpulverized sand and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water.

Item Description Code 392

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. WSRIC Waste Stream 771-11-12, IDC 392, is also characterized as D003 waste. The IDC 392 Unpulverized Sand, Slag, and Crucible Residue Analysis Study provides a D003 characterization based on the WSRIC Book.

IDC 392 is Subpopulation 39E and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 392.

Unpulverized sand, slag, and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water.

Item Description Code 393

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D007. WSRIC Waste Stream 771-2-6, IDC 393, is also characterized as D007 waste. The IDC 393 Sand, Slag, and Crucible Heel Residue Analysis Study concurs with the D007 characterization.

IDC 393 is Subpopulation 59F and was identified based on specific process knowledge. The grinding and dissolution will oxidize or hydrate any calcium metal fines that are part of the sand, slag, and crucible. Chromium can be added to the heel from the corrosion of the stainless steel in the dissolution process area. The heels are conservatively assigned D007 based on the unknown level of chromium contamination from the acid corrosion of stainless steel.

Item Description Code 395

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 395 Unpulverized Slag and Crucible Residue Analysis Study assigns a D003 characterization based on IDC 395 being derived from IDC 392.

IDC 395 is Subpopulation 59G and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 395.

Unpulverized slag and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water. Therefore, this waste exhibits the characteristic of reactivity (D003).

MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	LDR_DETERM: Net and gross weight data are not available for all container types. RFP has determined this waste to be LDR based on process knowledge characterization. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Variability surrounding fullness of containers precludes a meaningful computation of density. 2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55-gallon drum DOT 7A TYPE A, Carbon Steel.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W059	Handling:	CH	NMVP #:	N/A	Stream Name:	Sand, Slag and Crucible/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3119

AS-GENERATED EPA CODES

D007

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

Container	As-Generated Waste Form Volumes: Stored	Pre-97	98-02	03-12	13-22	Totals	Final Waste Form Volumes: Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	3.7	0.0	0.0	0.0	0.0	3.7							
Totals	3.7	0.0	0.0	0.0	0.0	3.7							

As-Generated Form: Stored: 3.7 Projected: 0.0 Total: 3.7

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

This waste form consists of material that is fine particulates to larger chunks. There is sand, and crucible shards from the break-out process.

WASTE STREAM SOURCE

IDC 393 is produced in the Dissolution Process in Gloveboxes (Lines) 23 and 25 in Building 771. Pulverized sand, slag, and crucible from the Crushing Process is placed in a dissolution pot with heated nitric acid and aluminum nitrate. The solution (plutonium nitrate) is pulled by vacuum through an R-6 filter to remove undissolved solids.

The undissolved solids are sand, slag, and crucible heels that are dried on a hot plate and placed in 4-liter, wide-mouth, polyethylene bottles for removal from the glovebox. After the containers are bagged out, they are assayed individually. The residue sand, slag, and crucible heels are stored awaiting plutonium recovery by dissolution.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

This waste form is generated from Facility/Equipment Operation and R&D Laboratories.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

Hazardous Waste Determination and Waste Characterization

Item Description Code 387

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D007. This IDC does not appear in active or archived WSRIC information. The IDC 387 Reburned SS&C Sweepings Residue Analysis Study concurs with the D007 characterization.

IDC 387 is Subpopulation 59B and was identified based on specific process knowledge. The heating of the sweepings on the hotplate will oxidize any calcium metal fines that are part of the sweepings. Operational personnel have observed flaking of the Inconel pan after repeated heating and cooling cycles. Inconel is approximately thirteen percent chromium according to the Materials Handbook. The reburned sweepings are conservatively assigned D007 based on the unknown level of chromium contamination from the Inconel flaking.

Item Description Code 390

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 390 Unpulverized Slag Residue Analysis Study provides a D003 characterization based on IDC 390 being derived from IDC 392, which is characterized as D003 in the 1992 WSRIC book.

IDC 390 is Subpopulation 59C and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 390.

Unpulverized slag is known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water. Therefore, this waste exhibits the characteristic of reactivity (D003).

Item Description Code 391

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 391 Unpulverized Sand and Crucible Residue Analysis Study characterizes the waste form with EPA Code D003 only.

IDC 391 is Subpopulation 59D and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 391.

Unpulverized sand and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water.

Item Description Code 392

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. WSRIC Waste Stream 771-11-12, IDC 392, is also characterized as D003 waste. The IDC 392 Unpulverized Sand, Slag, and Crucible Residue Analysis Study provides a D003 characterization based on the WSRIC Book.

IDC 392 is Subpopulation 39E and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 392.

Unpulverized sand, slag, and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water.

Item Description Code 393

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D007. WSRIC Waste Stream 771-2-6, IDC 393, is also characterized as D007 waste. The IDC 393 Sand, Slag, and Crucible Heel Residue Analysis Study concurs with the D007 characterization.

IDC 393 is Subpopulation 59F and was identified based on specific process knowledge. The grinding and dissolution will oxidize or hydrate any calcium metal fines that are part of the sand, slag, and crucible. Chromium can be added to the heel from the corrosion of the stainless steel in the dissolution process area. The heels are conservatively assigned D007 based on the unknown level of chromium contamination from the acid corrosion of stainless steel.

Item Description Code 395

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 395 Unpulverized Slag and Crucible Residue Analysis Study assigns a D003 characterization based on IDC 395 being derived from IDC 392.

IDC 395 is Subpopulation 59G and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 395.

Unpulverized slag and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water. Therefore,

	this waste exhibits the characteristic of reactivity (D003).
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	LDR_DETERM: Net and gross weight data are not available for all container types. RFP has determined this waste to be LDR based on process knowledge characterization. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Variability surrounding fullness of containers precludes a meaningful computation of density. 2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55-gallon drum DOT 7A TYPE A, Carbon Steel.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W059	Handling:	CH	NMVP #:	N/A	Stream Name:	Sand, Slag and Crucible/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3119

AS-GENERATED EPA CODES

D003

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.01	0.0	0.0	0.0	0.0	0.01
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.01 Projected: 0.0 Total: 0.01

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

This waste form consists of material that is fine particulates to larger chunks. There is sand, and crucible shards from the break-out process.

WASTE STREAM SOURCE

This IDC consists primarily of unpulverized slag and crucible generated as a residue from the reduction of plutonium tetrafluoride to plutonium metal, using calcium metal as the reductant. This reduction operation was performed in a reaction vessel within Glovebox (Line) 17 in Building 771.

The unpulverized slag and crucible are generated from the separation of calcium fluoride slag and crucible residues from the magnesium oxide sand following the removal of the plutonium metal button. Calcium fluoride is produced from the reaction of the calcium metal with the plutonium fluoride.

Unpulverized slag and crucible are placed in 4-liter, wide-mouth, polyethylene bottles for removal from the glovebox. After the bottles are bagged out, they are assayed individually. The bottles are stored awaiting crushing prior to plutonium recovery by dissolution.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

This waste form is generated from Facility/Equipment Operation and R&D Laboratories.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

Hazardous Waste Determination and Waste Characterization

Item Description Code 387

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D007. This IDC does not appear in active or archived WSRIC information. The IDC 387 Returned SS&C Sweepings Residue Analysis Study concurs with the D007 characterization.

IDC 387 is Subpopulation 59B and was identified based on specific process knowledge. The heating of the sweepings on the hotplate will oxidize any calcium metal fines that are part of the sweepings. Operational personnel have observed flaking of the Inconel pan after repeated heating and cooling cycles. Inconel is approximately thirteen percent chromium according to the Materials Handbook. The returned sweepings are conservatively assigned D007 based on the unknown level of chromium contamination from the Inconel flaking.

Item Description Code 390

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 390 Unpulverized Slag Residue Analysis Study provides a D003 characterization based on IDC 390 being derived from IDC 392, which is characterized as D003 in the 1992 WSRIC book.

IDC 390 is Subpopulation 59C and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 390.

Unpulverized slag is known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water. Therefore, this waste exhibits the characteristic of reactivity (D003).

Item Description Code 391

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 391 Unpulverized Sand and Crucible Residue Analysis Study characterizes the waste form with EPA Code D003 only.

IDC 391 is Subpopulation 59D and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 391.

Unpulverized sand and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water.

Item Description Code 392

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. WSRIC Waste Stream 771-11-12, IDC 392, is also characterized as D003 waste. The IDC 392 Unpulverized Sand, Slag, and Crucible Residue Analysis Study provides a D003 characterization based on the WSRIC Book.

IDC 392 is Subpopulation 39E and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 392.

Unpulverized sand, slag, and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water.

Item Description Code 393

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D007. WSRIC Waste Stream 771-2-6, IDC 393, is also characterized as D007 waste. The IDC 393 Sand, Slag, and Crucible Heel Residue Analysis Study concurs with the D007 characterization.

IDC 393 is Subpopulation 59F and was identified based on specific process knowledge. The grinding and dissolution will oxidize or hydrate any calcium metal fines that are part of the sand, slag, and crucible. Chromium can be added to the heel from the corrosion of the stainless steel in the dissolution process area. The heels are conservatively assigned D007 based on the unknown level of chromium contamination from the acid corrosion of stainless steel.

Item Description Code 395

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 395 Unpulverized Slag and Crucible Residue Analysis Study assigns a D003 characterization based on IDC 395 being derived from IDC 392.

IDC 395 is Subpopulation 59G and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 395.

Unpulverized slag and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas

when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water. Therefore, this waste exhibits the characteristic of reactivity (D003).

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS LDR_DETERM: Net and gross weight data are not available for all container types.

RFP has determined this waste to be LDR based on process knowledge characterization. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Variability surrounding fullness of containers precludes a meaningful computation of density.

2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55-gallon drum DOT 7A TYPE A, Carbon Steel.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W063	Handling:	CH	NMVP #:	N/A	Stream Name:	miscellaneous liquids/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	L1190

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

Container	As-Generated Waste Form Volumes Stored	Pre-97	98-02	03-12	13-22	Totals	Final Waste Form Volumes Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bottle / 4-Liter	0.4	0.0	0.0	0.0	0.0	0.4							
Totals	0.4	0.0	0.0	0.0	0.0	0.4							

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	These wastes are aqueous acidic liquid residues.
WASTE STREAM SOURCE	IDC 400 is ion column feed (plutonium nitrate solution) with less than 5 g/l plutonium which is to be processed through Anion Exchange to remove any impurities. These solutions come from various aqueous recovery operations for purification of plutonium. Dissolution in Building 771 dissolved high-impurity, low-plutonium content residues to recover plutonium. Cation Exchange in Building 771 processed chloride solutions (hydrochloric acid containing plutonium) from the laboratories in Building 371, 559, and 771. Precipitation Feed Batching in Building 771 combined plutonium nitrate or ion column eluate and evaporator bottoms to achieve the desired plutonium concentration. The solutions (IDC 400) in which impurity concentrations were too high were sent for purification. Reduction and Button Break-Out in Building 771 produced a purified plutonium metal product. In this process, the metal was pickled in a water bath to remove residual calcium. The resulting solutions (IDC 400) was mostly water containing plutonium and elemental impurities. Miscellaneous Residue Processing in Building 771 generated IDC 400 from sludge dissolution. Sludge from the process filter plenum was dissolved in heated nitric acid and drained through a filter resulting in nitrate solution (IDC 400). The heel that was formed on the filter was dried on a hot plate and also dissolved. RE: Section 6.2.11, RFETS doesn't expect sulfates, phosphates >1 wt%, but has no supporting data. RFETS does expect nitrate concentration to be >1%, but has no data indicating the actual concentration or range.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Subpopulation A Subpopulation A includes acidic solutions generated in the Building 371 Analytical Laboratory. These solutions were sampled for pH and were determined to be corrosive (D002). Therefore, this subpopulation exhibits the characteristic of corrosivity as defined in 6 CCR 1007-3, Section 261.22. Subpopulation H These solutions were sampled for pH and were determined to be corrosive (D002). Twenty-eight bottles of newly generated solutions generated in Building 771 were sampled for metals. Nine bottles contained greater than 1.0 ppm cadmium, 20 contained greater than 5.0 ppm chromium, and nine contained greater than 5.0 ppm lead. Six bottles are below the regulatory levels for these metals. In addition, Building 771 does X-Ray Fluorescence which uses silver chloride in the analysis. Silver is presumed to be in these solutions, but it has not been determined which bottles were generated from this process and if any of the bottles sampled were from this process. This subpopulation exhibits the characteristics of corrosivity (D002) and toxicity for cadmium, chromium, and lead (D006, D007, and D008) as defined in 6 CCR 1007-3, Sections 261.22 and 261.24.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Variability surronding fullness of containers precludes a meaningful computation of density.

2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55-gallon carbon steel drums.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W063	Handling:	CH	NMVP #:	N/A	Stream Name:	miscellaneous liquids/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	L1190

AS-GENERATED EPA CODES

D008, D006, D005, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bottle / 4-Liter	0.05	0.0	0.0	0.0	0.0	0.05
Totals	0.0	0.0	0.0	0.0	0.0	0.0

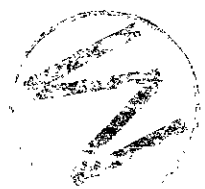
Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.05 Projected: 0.0 Total: 0.05

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	These wastes are aqueous acidic liquid residues.
WASTE STREAM SOURCE	IDC 401 is ion column feed (plutonium nitrate solution) with greater than 5 g/l plutonium processed through Anion Exchange. These solutions come from various aqueous recovery operations for purification of plutonium. IDC 401 was generated by the same processes as IDC 400, the only difference being the amount of plutonium contained in the solution. RE: Section 8.2.11, RFETS doesn't expect sulfates, phosphates >1 wt%, but has no supporting data. RFETS does expect nitrate concentration to be >1%, but has no data indicating the actual concentration or range.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Subpopulation A Subpopulation A includes acidic solutions generated in the Building 371 Analytical Laboratory. These solutions were sampled for pH and were determined to be corrosive (D002). Therefore, this subpopulation exhibits the characteristic of corrosivity as defined in 6 CCR 1007-3, Section 261.22. Subpopulation H These solutions were sampled for pH and were determined to be corrosive (D002). Twenty-eight bottles of newly generated solutions generated in Building 771 were sampled for metals. Nine bottles contained greater than 1.0 ppm cadmium, 20 contained greater than 5.0 ppm chromium, and nine contained greater than 5.0 ppm lead. Six bottles are below the regulatory levels for these metals. In addition, Building 771 does X-Ray Fluorescence which uses silver chloride in the analysis. Silver is presumed to be in these solutions, but it has not been determined which bottles were generated from this process and if any of the bottles sampled were from this process. This subpopulation exhibits the characteristics of corrosivity (D002) and toxicity for cadmium, chromium, and lead (D006, D007, and D008) as defined in 6 CCR 1007-3, Sections 261.22 and 261.24.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Variability surrounding fullness of containers precludes a meaningful computation of density. 2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55-gallon carbon steel drums.
FINAL FORM COMMENTS	



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W058	Handling:	CH	NMVP #:	N/A	Stream Name:	Misc Pu Recovery ByProduct/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Salt Waste	Waste Matrix Code:	S3141

AS-GENERATED EPA CODES

D007, D003

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

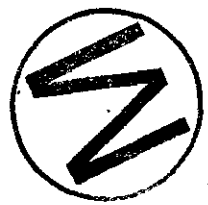
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0



WASTE STREAM DESCRIPTION

Its composition includes chunks and powdered mixed salts, a probable presence of magnesium, sodium and potassium metals.

WASTE STREAM SOURCE

Plutonium metal containing unacceptable levels of americium was combined with an equimolar mixture of sodium chloride and potassium chloride with magnesium chloride. The metal and salts were placed in a tantalum crucible and then in a furnace and heated until molten. The molten material was then stirred. While the mixture was molten, the magnesium chloride oxidized most of the ammericium and some of the plutonium, and the oxidized actinides went to the salt phase. After stirring, the salt and metal phases were allowed to separate at the elevated temperature. This process produced IDC 409.

IDC 409 was formed when a 30-mole-percent ratio of magnesium chloride was used in the fresh salt. For all of these IDCs the spent salt is composed primarily of sodium chloride, potassium chloride, residual magnesium chloride, entrained magnesium metal, and various plutonium and americium compounds. Any of the above MSE salts which have been packaged for off-site shipment were assigned IDC 416.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

This waste form is generated from Facility/Equipment Operation and R&D Laboratories.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

Hazardous Waste Determination and Waste Characterization

The primary sources of information for characterizing pyrochemical salts were two position papers, Reactivity of Pyrochemical Salts at Rocky Flats, and Presence of Chromium in Pyrochemical Salts at Rocky Flats. A memorandum from the DOE Rocky Flats Office regarding the Colorado Department of Health's (CDH's) perspective on the definition of reactivity pursuant to the Colorado Hazardous Waste Regulations, 6 CCR 1007-3, was used, as was a letter from EG&G regarding the CDH reactivity definition.

Subpopulation 34A

IDC 411, were generated from the ER process. Magnesium metal may be entrained in the salt. These salts may also contain sodium and potassium metal that was produced during the electrolysis of the molten salt mixture. Dissolution of these salts has occurred at Rocky Flats during R&D activities, and hydrogen gas generation has been observed. These dissolutions were always conducted under controlled conditions with extreme caution to account for the hydrogen gas generation, and no ignition of the hydrogen gas occurred during these dissolutions. These salts do not react "violently" with water, they do not generate toxic gases when mixed with water, and the possibility of water entering a container of these salts and forming an explosive mixture of hydrogen and oxygen is unlikely.

Based on this information, these salts do not exhibit the characteristic of reactivity (D003) as defined by 6 CCR 1007-3, Part 261.23. In addition, CDH has interpreted RCRA-reactivity as a condition that requires three key elements: a high reaction rate, containment of the reaction, and an ignition source, and there must be high probability of these elements occurring at the same time.

None of the above IDCs exhibit the characteristic of toxicity for chromium (D007) as defined by 6 CCR 1007-3, Part 261.24. Thermodynamic calculations conclude that chromium could exist only in insignificant amounts in the salt after the reactions, as chromium would alloy with the plutonium metal.

Subpopulation 34H

IDCs 405-410 were generated from the MSE process. Only magnesium metal and nonreactive metals are entrained in the salt. Testing has shown that the reaction of these salts in water is not "violent" and does not create enough heat to ignite the small amount of hydrogen that is produced. Therefore, these salts do not exhibit the characteristic of reactivity as defined in Subpopulations A-C. These salts also do not exhibit the characteristic of toxicity for chromium as explained in Subpopulations A-C.

Subpopulation 34Q

IDCs 404 and 412 were generated from the Pyroredox Process and contain calcium chloride and zinc chloride which are hygroscopic. As a result, these wastes could have absorbed enough water to contain some free liquid. Testing has shown that the pH of a surrogate sample composed of calcium chloride and zinc chloride is abput three, which does not meet the definition of corrosivity (D002) in 6 CCR 1007-3, Part 261.22(a)(1). In addition, testing has demonstrated that the liquid does not corrode steel at a rate greater than 0.250 inches per year. Therefore, the material does not exhibit the characteristic of corrosivity as defined by 6 CCR 1007-3, Part 261.22(a)(2).

Zinc and calcium metal may be entrained in these salts. Sodium and potassium metal may also be present due to the reduction of these metals by the excess calcium metal. However, there is a low probability that any unreacted metals are still present in these salts. Therefore, they would not meet the CDH conditions for reactivity. As a result, these salts do not exhibit the characteristics of reactivity or toxicity for chromium as defined in Subpopulations A-C.

Subpopulation 34S

IDCs 365 and 414 were generated from the DOR process. Calcium metal is entrained in these salts and a "button" of calcium metal may also be packaged with the salt. IDC 365 was produced by a failed DOR run and is expected to contain higher levels of plutonium oxide and calcium metal than IDC 414. When exposed to water, significantly more hydrogen may be generated by these salts if the calcium metal button present as calcium metal does not passivate when immersed in water, but continues to generate hydrogen until the calcium metal is entirely consumed. These salts have been in storage at RFP in ambient atmosphere for several years, and it is suspected that reaction with water has already occurred on the surface of the calcium metal from water present in the air, resulting in some loss of metal and hydrogen gas generation.

Other EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55 gallon drums, DOE 7A TYPE A, Carbon Steel.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W058	Handling:	CH	NMVP #:	N/A	Stream Name:	Misc Pu Recovery ByProduct/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Salt Waste	Waste Matrix Code:	S3141

AS-GENERATED EPA CODES

F005, F003, F002, F001, D011, D010, D009, D008, D007, D006, D005, D004

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

Its composition includes chunks and powdered mixed salts, a probable presence of magnesium, sodium and potassium metals.

WASTE STREAM SOURCE

Nonspecification plutonium metal, cast as an anode, was combined with and equimolar mixture of sodium chloride and potassium chloride in a magnesium oxide crucible. Magnesium chloride was then added to initiate the plutonium oxidation. The metal and salts were placed in a furnace and heated until molten. The molten mixture was stirred, and a current applied to the anode which flowed through the molten mixture to the cathode. Plutonium ions migrated from the molten anode through the molten salt to the cathode and were reduced to purified metal. After cooling, the crucible was broken and the salt, anode heel, and purified plutonium metal were separated. This process produced IDC 411 salts.

IDC 411 is composed primarily of sodium chloride, potassium chloride, residual magnesium chloride, entrained magnesium metals, and various plutonium compounds. These salts may contain sodium and potassium metal that was produced during the electrolysis of the molten salt mixture. IDC 411 salt packaged for off-site shipment was assigned IDC 473.

RE: Section 6.2.11, RFETS doesn't expect nitrates, sulfates, phosphates ? 1wt%, but has no supporting data.

This waste form is generated from Facility/Equipment Operation and R&D Laboratories.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

Hazardous Waste Determination and Waste Characterization

The primary sources of information for characterizing pyrochemical salts were two position papers, Reactivity of Pyrochemical Salts at Rocky Flats, and Presence of Chromium in Pyrochemical Salts at Rocky Flats. A memorandum from the DOE Rocky Flats Office regarding the Colorado Department of Health's (CDH's) perspective on the definition of reactivity pursuant to the Colorado Hazardous Waste Regulations, 6 CCR 1007-3, was used, as was a letter from EG&G regarding the CDH reactivity definition.

Subpopulation 34A

IDC 411, were generated from the ER process. Magnesium metal may be entrained in the salt. These salts may also contain sodium and potassium metal that was produced during the electrolysis of the molten salt mixture. Dissolution of these salts has occurred at Rocky Flats during R&D activities, and hydrogen gas generation has been observed. These dissolutions were always conducted under controlled conditions with extreme caution to account for the hydrogen gas generation, and no ignition of the hydrogen gas occurred during these dissolutions. These salts do not react "violently" with water, they do not generate toxic gases when mixed with water, and the possibility of water entering a container of these salts and forming an explosive mixture of hydrogen and oxygen is unlikely.

Based on this information, these salts do not exhibit the characteristic of reactivity (D003) as defined by 6 CCR 1007-3, Part 261.23. In addition, CDH has interpreted RCRA-reactivity as a condition that requires three key elements: a high reaction rate, containment of the reaction, and an ignition source, and there must be high probability of these elements occurring at the same time.

None of the above IDCs exhibit the characteristic of toxicity for chromium (D007) as defined by 6 CCR 1007-3, Part 261.24. Thermodynamic calculations conclude that chromium could exist only in insignificant amounts in the salt after the reactions, as chromium would alloy with the plutonium metal.

Subpopulation 34H

IDCs 405-410 were generated from the MSE process. Only magnesium metal and nonreactive metals are entrained in the salt. Testing has shown that the reaction of these salts in water is not "violent" and does not create enough heat to ignite the small amount of hydrogen that is produced. Therefore, these salts do not exhibit the characteristic of reactivity as defined in Subpopulations A-C. These salts also do not exhibit the characteristic of toxicity for chromium as explained in Subpopulations A-

C.

Subpopulation 34Q

IDCs 404 and 412 were generated from the Pyroredox Process and contain calcium chloride and zinc chloride which are hygroscopic. As a result, these wastes could have absorbed enough water to contain some free liquid. Testing has shown that the pH of a surrogate sample composed of calcium chloride and zinc chloride is about three, which does not meet the definition of corrosivity (D002) in 6 CCR 1007-3, Part 261.22(a)(1). In addition, testing has demonstrated that the liquid does not corrode steel at a rate greater than 0.250 inches per year. Therefore, the material does not exhibit the characteristic of corrosivity as defined by 6 CCR 1007-3, Part 261.22(a)(2).

Zinc and calcium metal may be entrained in these salts. Sodium and potassium metal may also be present due to the reduction of these metals by the excess calcium metal. However, there is a low probability that any unreacted metals are still present in these salts. Therefore, they would not meet the CDH conditions for reactivity. As a result, these salts do not exhibit the characteristics of reactivity or toxicity for chromium as defined in Subpopulations A-C.

Subpopulation 34S

IDCs 365 and 414 were generated from the DOR process. Calcium metal is entrained in these salts and a "button" of calcium metal may also be packaged with the salt. IDC 365 was produced by a failed DOR run and is expected to contain higher levels of plutonium oxide and calcium metal than IDC 414. When exposed to water, significantly more hydrogen may be generated by these salts if the calcium metal button present as calcium metal does not passivate when immersed in water, but continues to generate hydrogen until the calcium metal is entirely consumed. These salts have been in storage at RFP in ambient atmosphere for several years, and it is suspected that reaction with water has already occurred on the surface of the calcium metal from water present in the air, resulting in some loss of metal and hydrogen gas generation.

Other EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55 gallon drums, DOE 7A TYPE A, Carbon Steel.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W058	Handling:	CH	NMVP #:	N/A	Stream Name:	Misc Pu Recovery ByProduct/TRM
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Salt Waste

Inventory Date: 10/20/94 | Waste Matrix Code: S3141

AS-GENERATED EPA CODES

D003

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.4	0.0	0.0	0.0	0.0	0.4
Drum / 55-gallon	6.7	0.0	0.0	0.0	0.0	6.7
Totals	7.1	0.0	0.0	0.0	0.0	7.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 7.1 Projected: 0.0 Total: 7.1

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION Its composition includes chunks and powdered mixed salts, a probable presence of magnesium, sodium and potassium metals.

WASTE STREAM SOURCE This salt was generated by the scraping and cleaning of pyrochemical furnace cells and consists of spent pyrochemical salts and magnesium calcium, sodium, and potassium metals which vaporized during the pyrochemical processes and collected on the cold parts of the cells. The scraped-out material may have been reheated in a furnace to oxidize the metals; however, this did not always occur. This salt could contain compounds present in any of the pyrochemical salts.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

This waste form is generated from Facility/Equipment Operations and R&D Laboratories.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

Hazardous Waste Determination and Waste Characterization

The primary sources of information for characterizing pyrochemical salts were two position papers, Reactivity of Pyrochemical Salts at Rocky Flats, and Presence of Chromium in Pyrochemical Salts at Rocky Flats. A memorandum from the DOE Rocky Flats Office regarding the Colorado Department of Health's (CDH's) perspective on the definition of reactivity pursuant to the Colorado Hazardous Waste Regulations, 6 CCR 1007-3, was used, as was a letter from EG&G regarding the CDH reactivity definition.

Subpopulation 34A

IDC 411, were generated from the ER process. Magnesium metal may be entrained in the salt. These salts may also contain sodium and potassium metal that was produced during the electrolysis of the molten salt mixture. Dissolution of these salts has occurred at Rocky Flats during R&D activities, and hydrogen gas generation has been observed. These dissolutions were always conducted under controlled conditions with extreme caution to account for the hydrogen gas generation, and no ignition of the hydrogen gas occurred during these dissolutions. These salts do not react "violently" with water, they do not generate toxic gases when mixed with water, and the possibility of water entering a container of these salts and forming an explosive mixture of hydrogen and oxygen is unlikely.

Based on this information, these salts do not exhibit the characteristic of reactivity (D003) as defined by 6 CCR 1007-3, Part 261.23. In addition, CDH has interpreted RCRA-reactivity as a condition that requires three key elements: a high reaction rate, containment of the reaction, and an ignition source, and there must be high probability of these elements occurring at the same time.

None of the above IDCs exhibit the characteristic of toxicity for chromium (D007) as defined by 6 CCR 1007-3, Part 261.24. Thermodynamic calculations conclude that chromium could exist only in insignificant amounts in the salt after the reactions, as chromium would alloy with the plutonium metal.

Subpopulation 34H

IDCs 405-410 were generated from the MSE process. Only magnesium metal and nonreactive metals are entrained in the salt. Testing has shown that the reaction of these salts in water is not "violent" and does not create enough heat to ignite the small amount of hydrogen that is produced. Therefore, these salts do not exhibit the characteristic of reactivity as defined in Subpopulations A-C. These salts also do not exhibit the characteristic of toxicity for chromium as explained in Subpopulations A-C.

Subpopulation 34Q

IDCs 404 and 412 were generated from the Pyroredox Process and contain calcium chloride and zinc chloride which are hygroscopic. As a result, these wastes could

have absorbed enough water to contain some free liquid. Testing has shown that the pH of a surrogate sample composed of calcium chloride and zinc chloride is about three, which does not meet the definition of corrosivity (D002) in 6 CCR 1007-3, Part 261.22(a)(1). In addition, testing has demonstrated that the liquid does not corrode steel at a rate greater than 0.250 inches per year. Therefore, the material does not exhibit the characteristic of corrosivity as defined by 6 CCR 1007-3, Part 261.22(a)(2).

Zinc and calcium metal may be entrained in these salts. Sodium and potassium metal may also be present due to the reduction of these metals by the excess calcium metal. However, there is a low probability that any unreacted metals are still present in these salts. Therefore, they would not meet the CDH conditions for reactivity. As a result, these salts do not exhibit the characteristics of reactivity or toxicity for chromium as defined in Subpopulations A-C.

Subpopulation 34S

IDCs 365 and 414 were generated from the DOR process. Calcium metal is entrained in these salts and a "button" of calcium metal may also be packaged with the salt. IDC 365 was produced by a failed DOR run and is expected to contain higher levels of plutonium oxide and calcium metal than IDC 414. When exposed to water, significantly more hydrogen may be generated by these salts if the calcium metal button present as calcium metal does not passivate when immersed in water, but continues to generate hydrogen until the calcium metal is entirely consumed. These salts have been in storage at RFP in ambient atmosphere for several years, and it is suspected that reaction with water has already occurred on the surface of the calcium metal from water present in the air, resulting in some loss of metal and hydrogen gas generation.

Other EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55 gallon drums, DOE 7A TYPE A, Carbon Steel.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W058	Handling:	CH	NMVP #:	N/A	Stream Name:	Misc Pu Recovery ByProduct/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Salt Waste	Waste Matrix Code:	S3141

AS-GENERATED EPA CODES

D003

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.2	0.0	0.0	0.0	0.0	0.2
Drum / 55-gallon	6.4	0.0	0.0	0.0	0.0	6.4
Totals	6.7	0.0	0.0	0.0	0.0	6.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 6.7 Projected: 0.0 Total: 6.7

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION its composition includes chunks and powdered mixed salts, a probable presence of magnesium, sodium and potassium metals.

WASTE STREAM SOURCE

Calcined plutonium oxide was placed in a magnesium oxide crucible with calcium chloride and calcium metal. The crucible and contents were placed in a furnace and heated until the contents were molten. The molten material was stirred to initiate and promote the reduction of the plutonium oxide. After the reaction, the melt was allowed to separate into plutonium metal and salt phases. After cooling, the crucible was broken and separated from the salt, calcium, and plutonium metal. This process produced IDCs 365 and 414.

IDCs 365 and 414 are composed primarily of calcium chloride, calcium oxide, calcium metal entrained in the salt, and various plutonium compounds. A "button" of excess calcium may also be present in some containers of these salts. IDC 365 was produced by a failed DOR run and is expected to contain higher levels of plutonium oxide and calcium metal than IDC 414.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

This waste form is generated from Facility/Equipment Operation and R&D Laboratories.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

Hazardous Waste Determination and Waste Characterization

The primary sources of information for characterizing pyrochemical salts were two position papers, Reactivity of Pyrochemical Salts at Rocky Flats, and Presence of Chromium in Pyrochemical Salts at Rocky Flats. A memorandum from the DOE Rocky Flats Office regarding the Colorado Department of Health's (CDH's) perspective on the definition of reactivity pursuant to the Colorado Hazardous Waste Regulations, 6 CCR 1007-3, was used, as was a letter from EG&G regarding the CDH reactivity definition.

Subpopulation 34A

IDC 411, were generated from the ER process. Magnesium metal may be entrained in the salt. These salts may also contain sodium and potassium metal that was produced during the electrolysis of the molten salt mixture. Dissolution of these salts has occurred at Rocky Flats during R&D activities, and hydrogen gas generation has been observed. These dissolutions were always conducted under controlled conditions with extreme caution to account for the hydrogen gas generation, and no ignition of the hydrogen gas occurred during these dissolutions. These salts do not react "violently" with water, they do not generate toxic gases when mixed with water, and the possibility of water entering a container of these salts and forming an explosive mixture of hydrogen and oxygen is unlikely.

Based on this information, these salts do not exhibit the characteristic of reactivity (D003) as defined by 6 CCR 1007-3, Part 261.23. In addition, CDH has interpreted RCRA-reactivity as a condition that requires three key elements: a high reaction rate, containment of the reaction, and an ignition source, and there must be high probability of these elements occurring at the same time.

None of the above IDCs exhibit the characteristic of toxicity for chromium (D007) as defined by 6 CCR 1007-3, Part 261.24. Thermodynamic calculations conclude that chromium could exist only in insignificant amounts in the salt after the reactions, as chromium would alloy with the plutonium metal.

Subpopulation 34H

IDCs 405-410 were generated from the MSE process. Only magnesium metal and nonreactive metals are entrained in the salt. Testing has shown that the reaction of these salts in water is not "violent" and does not create enough heat to ignite the small amount of hydrogen that is produced. Therefore, these salts do not exhibit the characteristic of reactivity as defined in Subpopulations A-C. These salts also do not exhibit the characteristic of toxicity for chromium as explained in Subpopulations A-

C.

Subpopulation 34Q

IDCs 404 and 412 were generated from the Pyroredox Process and contain calcium chloride and zinc chloride which are hygroscopic. As a result, these wastes could have absorbed enough water to contain some free liquid. Testing has shown that the pH of a surrogate sample composed of calcium chloride and zinc chloride is about three, which does not meet the definition of corrosivity (D002) in 6 CCR 1007-3, Part 261.22(a)(1). In addition, testing has demonstrated that the liquid does not corrode steel at a rate greater than 0.250 inches per year. Therefore, the material does not exhibit the characteristic of corrosivity as defined by 6 CCR 1007-3, Part 261.22(a)(2).

Zinc and calcium metal may be entrained in these salts. Sodium and potassium metal may also be present due to the reduction of these metals by the excess calcium metal. However, there is a low probability that any unreacted metals are still present in these salts. Therefore, they would not meet the CDH conditions for reactivity. As a result, these salts do not exhibit the characteristics of reactivity or toxicity for chromium as defined in Subpopulations A-C.

Subpopulation 34S

IDCs 365 and 414 were generated from the DOR process. Calcium metal is entrained in these salts and a "button" of calcium metal may also be packaged with the salt. IDC 365 was produced by a failed DOR run and is expected to contain higher levels of plutonium oxide and calcium metal than IDC 414. When exposed to water, significantly more hydrogen may be generated by these salts if the calcium metal button present as calcium metal does not passivate when immersed in water, but continues to generate hydrogen until the calcium metal is entirely consumed. These salts have been in storage at RFP in ambient atmosphere for several years, and it is suspected that reaction with water has already occurred on the surface of the calcium metal from water present in the air, resulting in some loss of metal and hydrogen gas generation.

Other EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55 gallon drums, DOE 7A TYPE A, Carbon Steel.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W058	Handling:	CH	NMVP #:	N/A	Stream Name:	Misc Pu Recovery ByProduct/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Salt Waste	Waste Matrix Code:	S3141

AS-GENERATED EPA CODES

D003

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.02	0.0	0.0	0.0	0.0	0.02
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.02 Projected: 0.0 Total: 0.02

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

Its composition includes chunks and powdered mixed salts, a probable presence of magnesium, sodium and potassium metals.

WASTE STREAM SOURCE

Salt Scrub was a process used to recover plutonium from MSE salts. In this process, MSE salts were combined with a reducing agent and an alloying agent; the combinations of magnesium and aluminum, calcium, and gallium, and calcium and cerium have been used. The crucible and contents were placed in a furnace and heated until the contents were molten and the mixture was stirred. While molten, the plutonium and americium were reduced by the calcium or magnesium and the actinides went into the metal alloy phase. After cooling, the crucible was broken and the salt and scrub alloy separated. This process produced IDCs 429 and 433-435 salts.

IDC 434 salt was generated using calcium and gallium. This IDC represents salts produced from the salt scrub of MSE DCHP salts. This salt is composed primarily of calcium chloride, cesium chloride, entrained calcium and gallium metal, and various plutonium and americium compounds. A "button" of excess calcium may also be present in some containers of this salt.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

This waste form is generated from Facility/Equipment Operations and R&D Laboratories.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

Hazardous Waste Determination and Waste Characterization

The primary sources of information for characterizing pyrochemical salts were two position papers, Reactivity of Pyrochemical Salts at Rocky Flats, and Presence of Chromium in Pyrochemical Salts at Rocky Flats. A memorandum from the DOE Rocky Flats Office regarding the Colorado Department of Health's (CDH's) perspective on the definition of reactivity pursuant to the Colorado Hazardous Waste Regulations, 6 CCR 1007-3, was used, as was a letter from EG&G regarding the CDH reactivity definition.

Subpopulation 34A

IDC 411, were generated from the ER process. Magnesium metal may be entrained in the salt. These salts may also contain sodium and potassium metal that was produced during the electrolysis of the molten salt mixture. Dissolution of these salts has occurred at Rocky Flats during R&D activities, and hydrogen gas generation has been observed. These dissolutions were always conducted under controlled conditions with extreme caution to account for the hydrogen gas generation, and no ignition of the hydrogen gas occurred during these dissolutions. These salts do not react "violently" with water, they do not generate toxic gases when mixed with water, and the possibility of water entering a container of these salts and forming an explosive mixture of hydrogen and oxygen is unlikely.

Based on this information, these salts do not exhibit the characteristic of reactivity (D003) as defined by 6 CCR 1007-3, Part 261.23. In addition, CDH has interpreted RCRA-reactivity as a condition that requires three key elements: a high reaction rate, containment of the reaction, and an ignition source, and there must be high probability of these elements occurring at the same time.

None of the above IDCs exhibit the characteristic of toxicity for chromium (D007) as defined by 6 CCR 1007-3, Part 261.24. Thermodynamic calculations conclude that chromium could exist only in insignificant amounts in the salt after the reactions, as chromium would alloy with the plutonium metal.

Subpopulation 34H

IDCs 405-410 were generated from the MSE process. Only magnesium metal and nonreactive metals are entrained in the salt. Testing has shown that the reaction of these salts in water is not "violent" and does not create enough heat to ignite the small amount of hydrogen that is produced. Therefore, these salts do not exhibit the characteristic of reactivity as defined in Subpopulations A-C. These salts also do not exhibit the characteristic of toxicity for chromium as explained in Subpopulations A-

C.

Subpopulation 34Q

IDCs 404 and 412 were generated from the Pyroredox Process and contain calcium chloride and zinc chloride which are hygroscopic. As a result, these wastes could have absorbed enough water to contain some free liquid. Testing has shown that the pH of a surrogate sample composed of calcium chloride and zinc chloride is about three, which does not meet the definition of corrosivity (D002) in 6 CCR 1007-3, Part 261.22(a)(1). In addition, testing has demonstrated that the liquid does not corrode steel at a rate greater than 0.250 inches per year. Therefore, the material does not exhibit the characteristic of corrosivity as defined by 6 CCR 1007-3, Part 261.22(a)(2).

Zinc and calcium metal may be entrained in these salts. Sodium and potassium metal may also be present due to the reduction of these metals by the excess calcium metal. However, there is a low probability that any unreacted metals are still present in these salts. Therefore, they would not meet the CDH conditions for reactivity. As a result, these salts do not exhibit the characteristics of reactivity or toxicity for chromium as defined in Subpopulations A-C.

Subpopulation 34S

IDCs 365 and 414 were generated from the DOR process. Calcium metal is entrained in these salts and a "button" of calcium metal may also be packaged with the salt. IDC 365 was produced by a failed DOR run and is expected to contain higher levels of plutonium oxide and calcium metal than IDC 414. When exposed to water, significantly more hydrogen may be generated by these salts if the calcium metal button present as calcium metal does not passivate when immersed in water, but continues to generate hydrogen until the calcium metal is entirely consumed. These salts have been in storage at RFP in ambient atmosphere for several years, and it is suspected that reaction with water has already occurred on the surface of the calcium metal from water present in the air, resulting in some loss of metal and hydrogen gas generation.

Other EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55 gallon drums, DOE 7A TYPE A, Carbon Steel.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W063	Handling:	CH	NMVP #:	N/A	Stream Name:	miscellaneous liquids/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics.	Waste Matrix Code:	L1190

AS-GENERATED EPA CODES

D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bottle / 4-Liter	0.1	0.0	0.0	0.0	0.0	0.1
Totals	0.1	0.0	0.0	0.0	0.0	0.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.1 Projected: 0.0 Total: 0.1

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	These wastes are aqueous acidic liquid residues.
WASTE STREAM SOURCE	IDC 500 is plutonium and enriched uranium nitrate solution from Oralloy Leaching. The material is eluate solution ready for Oralloy Preparation. Oralloy Leaching in Building 771 removed small amounts of plutonium from uranium parts. Nitric acid was sprayed into the parts and then was collected and transferred to a steam-heated evaporator. The concentrated acid (IDC 500) was then piped to Oralloy Precipitation where the plutonium and uranium solids were precipitated out. RE: Section 8.2.11, RFETS doesn't expect sulfates, phosphates >1 wt%, but has no supporting data. RFETS does expect nitrate concentration to be >1%, but has no data indicating the actual concentration or range.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Subpopulation A Subpopulation A includes acidic solutions generated in the Building 371 Analytical Laboratory. These solutions were sampled for pH and were determined to be corrosive (D002). Therefore, this subpopulation exhibits the characteristic of corrosivity as defined in 6 CCR 1007-3, Section 261.22. Subpopulation H These solutions were sampled for pH and were determined to be corrosive (D002). Twenty-eight bottles of newly generated solutions generated in Building 771 were sampled for metals. Nine bottles contained greater than 1.0 ppm cadmium, 20 contained greater than 5.0 ppm chromium, and nine contained greater than 5.0 ppm lead. Six bottles are below the regulatory levels for these metals. In addition, Building 771 does X-Ray Fluorescence which uses silver chloride in the analysis. Silver is presumed to be in these solutions, but it has not been determined which bottles were generated from this process and if any of the bottles sampled were from this process. This subpopulation exhibits the characteristics of corrosivity (D002) and toxicity for cadmium, chromium, and lead (D006, D007, and D008) as defined in 6 CCR 1007-3, Sections 261.22 and 261.24.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Variability surrounding fullness of containers precludes a meaningful computation of density. 2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55-gallon carbon steel drums.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W063	Handling:	CH.	NMVP #:	N/A	Stream Name:	miscellaneous liquids/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	L1190

AS-GENERATED EPA CODES

D008, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bottle / 4-Liter	0.04	0.0	0.0	0.0	0.0	0.04
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.04 Projected: 0.0 Total: 0.04

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	These wastes are aqueous acidic liquid residues.
WASTE STREAM SOURCE	IDC 503 is miscellaneous spent acid waste contaminated with plutonium generated during various research and development operations. Calcination in Building 771 removed excess nitric acid and moisture from plutonium peroxide cake (green cake). Because some of the plutonium peroxide cake was entrained in off-gas, the off-gas passed through a packed-bed nitric acid scrubber to dissolve the peroxide cake. The nitric acid was then filtered and piped to Anion Exchange. Spray Leach used a nitric- and sulfuric-acid mixture or nitric and hydrofluoric acids as leaching agents for plutonium parts or fixtures. The filtered leachate (IDC 503) was piped to Anion Exchange. Vacuum systems in Building 771 generated nitric acid waste from cleaning the receiving tank. This waste was sent to Anion Exchange. H-4 Support Vacuum Systems generated water composed of acidic plutonium solution diluted in seal liquid. This liquid was drained into the process piping system during daily maintenance. The liquid was transferred to tanks for eventual treatment in Anion Exchange. Nitrate solutions were generated by a dissolution process in Building 779 similar to those in Building 771. The solutions in this process consisted of sodium nitrate, silver nitrate, nitric acid, plutonium nitrate, and water. These solutions are below the EDL. Ferrite Actinide Removal in Building 779 adsorbed actinides from low-level aqueous wastes containing uranium, americium, and plutonium with ferrite materials. Nitric acid was used to strip actinides from the ferrite material. Ferrite wash water was generated from rinsing ferric materials after actinides had been removed. RE: Section 8.2.11, RFETS doesn't expect sulfates, phosphates >1 wt%, but has no supporting data. RFETS does expect nitrate concentration to be >1%, but has no data indicating the actual concentration or range.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Subpopulation A Subpopulation A includes acidic solutions generated in the Building 371 Analytical Laboratory. These solutions were sampled for pH and were determined to be corrosive (D002). Therefore, this subpopulation exhibits the characteristic of corrosivity as defined in 6 CCR 1007-3, Section 261.22. Subpopulation H These solutions were sampled for pH and were determined to be corrosive (D002). Twenty-eight bottles of newly generated solutions generated in Building 771 were sampled for metals. Nine bottles contained greater than 1.0 ppm cadmium, 20 contained greater than 5.0 ppm chromium, and nine contained greater than 5.0 ppm lead. Six bottles are below the regulatory levels for these metals. In addition, Building 771 does X-Ray Fluorescence which uses silver chloride in the analysis. Silver is presumed to be in these solutions, but it has not been determined which bottles were generated from this process and if any of the bottles sampled were from this process. This subpopulation exhibits the characteristics of corrosivity (D002) and toxicity for cadmium, chromium, and lead (D006, D007, and D008) as defined in 6 CCR 1007-3, Sections 261.22 and 261.24.

MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Variability surronding fullness of containers precludes a meaningful computation of density. 2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55-gallon carbon steel drums.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W063	Handling:	CH	NMVP #:	N/A	Stream Name:	miscellaneous liquids/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	L1190

AS-GENERATED EPA CODES

D008, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bottle / 4-Liter	0.1	0.0	0.0	0.0	0.0	0.1
Totals	0.1	0.0	0.0	0.0	0.0	0.1

Final Waste Form Volumes

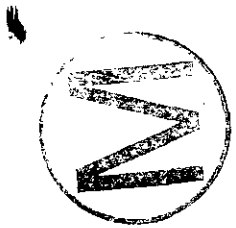
Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.1 Projected: 0.0 Total: 0.1

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	These wastes are aqueous acidic liquid residues.
WASTE STREAM SOURCE	IDC 508 is hydrochloric acid (HCl) containing plutonium generated by various process operations and glovebox-cleaning operations uing HCl. Process operations and glovebox-cleaning operations were definec based on preliminary analytical results. IDC 508 was generated in Cation Exchange in Building 771 from washing residual impurities from the resin with dilute nitric acid. Chemical Technology in Building 771 generated miscellaneous chloride acid solutions from Batch Chloride Dissolution. This process dissolved plutonium oxide with hydrochloric acid. Dicesium hexachloroplutonate (DCHP) preperation in Building 371 also generated IDC 508. This process produced DCHP, a salt used to remove americium from nonspecification and impure plutonium oxide. The oxide was dissolved in hydrochloric acid and filtered. The filtrate was then precipitated using cesium chloride and sodium nitrite in hydrochloric acid and then filtered again. Plutonium was recovered from the DCHP precipitation filtrate through chloride anion exchange. This was achieved by processing the solution through ion columns, and the plutonium loaded onto the anion exchange resin while most of the impurities stayed in the solution. This solution then left the column as effluent (IDC 501). The ion column was later washed to release the chloride eluate (IDC 508). Peroxide Precipitation in Building 779 reacted ion exchange effluent with hydrogen peroxide to produce plutonium peroxide, which was then calcined to produce plutonium oxide. The plutonium peroxide precipitate was filtered and washed. Residue Recovery Extraction in Building 779 recovered actinides using aqueous leaching techniques. Hydrofluoric acid solutions containing aluminium fluoride, cesium chloride, calcium fluoride, and sodium nitrate were generated. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Subpopulation A Subpopulation A includes acidic solutions generated in the Building 371 Analytical Laboratory. These solutions were sampled for pH and were determined to be corrosive (D002). Therefore, this subpopulation exhibits the characteristic of corrosivity as defined in 6 CCR 1007-3, Section 261.22. Subpopulation H These solutions were sampled for pH and were determined to be corrosive (D002). Twenty-eight bottles of newly generated solutions generated in Building 771 were sampled for metals. Nine bottles contained greater than 1.0 ppm cadmium, 20 contained greater than 5.0 ppm chromium, and nine contained greater than 5.0 ppm lead. Six bottles are below the regulatory levels for these metals. In addition, Building 771 does X-Ray Fluorescence which uses silver chloride in the analysis. Silver is presumed to be in these solutions, but it has not been determined which bottles were generated from this process and if any of the bottles sampled were from this process. This subpopulation exhibits the characteristics of corrosivity (D002) and toxicity for cadmium, chromium, and lead (D006, D007, and D008) as defined in 6 CCR 1007-3, Sections 261.22 and 261.24.
MANAGEMENT COMMENTS	N/A

ACCEPTANCE COMMENTS	RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Variability surronding fullness of containers precludes a meaningful computation of density. 2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55-gallon carbon steel drums.
FINAL FORM COMMENTS	



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W063	Handling:	CH	NMVP #:	N/A	Stream Name:	miscellaneous liquids/TRM			Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics			Waste Matrix Code:	L1190

AS-GENERATED EPA CODES

F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

Container	As-Generated Waste Form Volumes: Stored	Pre-97	98-02	03-12	13-22	Totals	Final Waste Form Volumes: Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bottle / 4-Liter	0.00	0.0	0.0	0.0	0.0	0.00							
Totals	0.0	0.0	0.0	0.0	0.0	0.0							

As-Generated Form: Stored: 0.00 Projected: 0.0 Total: 0.00

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	These wastes are aqueous acidic liquid residues.
WASTE STREAM SOURCE	IDC 527 is caustic waste solutions consisting of sodium hydroxide or potassium hydroxide. Dissolution in Building 771 used potassium hydroxide for flushing the condenser when dissolvind incinerator ash. H-4 Support Vacuum Systems used potassium hydroxide in an aqueous solution as a seal liquid. Vacuum Systems also used a seal liquid made up of water only. RE: Section 8.2.11, RFETS doesn't expect sulfates, phosphates >1 wt%, but has no supportin data. RFETS does expect nitrate concentration to be >1%, but has no data indicating the actual concentration range.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Subpopulation A Subpopulation A includes acidic solutions generated in the Building 371 Analytical Laboratory. These solutions were sampled for pH and were determined to be corrosive (D002). Therefore, this subpopulation exhibits the characteristic of corrosivity as defined in 6 CCR 1007-3, Section 261.22. Subpopulation H These solutions were sampled for pH and were determined to be corrosive (D002). Twenty-eight bottles of newly generated solutions generated in Building 771 were sampled for metals. Nine bottles contained greater than 1.0 ppm cadmium, 20 contained greater than 5.0 ppm chromium, and nine contained greater than 5.0 ppm lead. Six bottles are below the regulatory levels for these metals. In addition, Building 771 does X-Ray Fluorescence which uses silver chloride in the analysis. Silver is presumed to be in these solutions, but it has not been determined which bottles were generated from this process and if any of the bottles sampled were from this process. This subpopulation exhibits the characteristics of corrosivity (D002) and toxicity for cadmium, chromium, and lead (D006, D007, and D008) as defined in 6 CCR 1007-3, Sections 261.22 and 261.24.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Variability surronding fullness of containers precludes a meaningful computation of density. 2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55-gallon carbon steel drums.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W063	Handling:	CH	NMVP #:	N/A	Stream Name:	miscellaneous liquids/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	L1190

AS-GENERATED EPA CODES

F009, F007, F005, F003, F002, F001, D043, D040, D039, D038, D035, D028, D022, D019, D018, D011, D010, D009, D008, D007, D006, D005, D004, D003, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bottle / 4-Liter	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	These wastes are aqueous acidic liquid residues.
WASTE STREAM SOURCE	The Building 371 analytical laboratory receives liquid and solid samples from the entire plant site. Samples that are destined for Building 881 are analyzed in Building 371 to screen out those with high levels of radioactivity. Sludge and aqueous samples from Building 374 are analyzed for total alpha activity and plutonium, uranium, and americium content. Prior to analysis, the sludges are dissolved in nitric acid, hydrogen fluoride, or hydrochloric acid. Reagents are also used in sample preparation. Unused portions or excess prepared sample are placed in 4-liter plastic bottles. The Building 559 analytical laboratory also receives liquid and solid samples from the entire plant site. Samples are analyzed for various ions, iron, silicon, isotopic composition, and americium, gallium, neptunium, plutonium, uranium, and other metals (Resource Conservation and Recovery Act [RCRA] - regulated and nonregulated). Solid samples are dissolved in a variety of acids, including nitric and hydrochloric. Other chemicals used in the laboratory include methanol, chloroform, and other organic solvents; titanium trichloride; ceric ammonium nitrate; sodium hydroxide; silver chloride; silver nitrate; and various metals standards. Unused portions or excess prepared samples are placed in 4-liter plastic bottles. Metal standards are also place on the bottles. The Building 771 analytical laboratory also receives liquid and solid samples from the entire plant site. Samples are analyzed for various metals and ions, pH, and radioactivity. The principal chemicals used in the lab include sodium hydroxide, hydrochloric acid, nitric acid, cyclohexane, trioctyl phosphine oxide, yttrium, and various metal standards. Unused portions or excess prepared samples are placed in 4-liter plastic bottles. Metal standards are also placed in the bottles. RE: Section 8.2.11, RFETS doesn't expect sulfates, phosphates >1 wt%, but has no supporting data. RFETS does expect nitrate concentration to be >1%, but has no data indicating the actual concentration or range.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Subpopulation A Subpopulation A includes acidic solutions generated in the Building 371 Analytical Laboratory. These solutions were sampled for pH and were determined to be corrosive (D002). Therefore, this subpopulation exhibits the characteristic of corrosivity as defined in 6 CCR 1007-3, Section 261.22. Subpopulation H These solutions were sampled for pH and were determined to be corrosive (D002). Twenty-eight bottles of newly generated solutions generated in Building 771 were sampled for metals. Nine bottles contained greater than 1.0 ppm cadmium, 20 contained greater than 5.0 ppm chromium, and nine contained greater than 5.0 ppm lead. Six bottles are below the regulatory levels for these metals. In addition, Building 771 does X-Ray Fluorescence which uses silver chloride in the analysis. Silver is presumed to be in these solutions, but it has not been determined which bottles were generated from this process and if any of the bottles sampled were from this process. This subpopulation exhibits the characteristics of corrosivity (D002) and toxicity for cadmium, chromium, and lead (D006, D007, and D008) as defined in 6 CCR 1007-3, Sections 261.22 and 261.24.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Variability surronding fullness of containers precludes a meaningful computation of density.

2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55-gallon carbon steel drums.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W063	Handling:	CH	NMVP #:	N/A	Stream Name:	miscellaneous liquids/TRM	Inventory Date:	
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	L1190

AS-GENERATED EPA CODES

F005, F003, F002, F001, D043, D040, D038, D035, D029, D028, D019, D018, D011, D010, D009, D008, D007, D006, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.0	0.0	0.0	0.0	0.0	0.0
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.0 Projected: 0.0 Total: 0.0

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	These wastes are aqueous acidic liquid residues.
WASTE STREAM SOURCE	Group X200 is analytical standards. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Subpopulation A Subpopulation A includes acidic solutions generated in the Building 371 Analytical Laboratory. These solutions were sampled for pH and were determined to be corrosive (D002). Therefore, this subpopulation exhibits the characteristic of corrosivity as defined in 6 CCR 1007-3, Section 261.22. Subpopulation H These solutions were sampled for pH and were determined to be corrosive (D002). Twenty-eight bottles of newly generated solutions generated in Building 771 were sampled for metals. Nine bottles contained greater than 1.0 ppm cadmium, 20 contained greater than 5.0 ppm chromium, and nine contained greater than 5.0 ppm lead. Six bottles are below the regulatory levels for these metals. In addition, Building 771 does X-Ray Fluorescence which uses silver chloride in the analysis. Silver is presumed to be in these solutions, but it has not been determined which bottles were generated from this process and if any of the bottles sampled were from this process. This subpopulation exhibits the characteristics of corrosivity (D002) and toxicity for cadmium, chromium, and lead (D006, D007, and D008) as defined in 6 CCR 1007-3, Sections 261.22 and 261.24.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Variability surrounding fullness of containers precludes a meaningful computation of density. 2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55-gallon carbon steel drums.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W076	Handling:	CH	NMVP #:	N/A	Stream Name:	Process Residues/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3119

AS-GENERATED EPA CODES

D007

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.01	0.0	0.0	0.0	0.0	0.01
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	0.0
Totals	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated Form: Stored: 0.01 Projected: 0.0 Total: 0.01

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

This waste form contains some ash, and it also is solid chunks and fine particulate material. Some liquids may be present.

IDC 092 - Impure Fluoride Heel
IDC 290 - Filter Sludge
IDC 332 - Oily sludge
IDC 340 - sludge from size reduction area
IDC 422 - Must be processed into IDC 806 for disposal.
IDC 423 - Must be processed into IDC 806 for disposal.
IDC 089 - Grease Oxide (green cake)
IDC 080 - Pu Tetrafluoride
IDC 090 -
IDC 091 - Non-Spec Fluoride
IDC 097 - Impure Fluoride in small cans -- Building 371
IDC 099 - Grease Fluoride

WASTE STREAM SOURCE

IDC 089 is produced in the calcination process in Glovebox 16 in Building 771. Grease oxide is a mixture of plutonium greencake from the calciner equipment. The grease is applied to the wear plates on the calciner. Grease and greencake can mix together near the breech of the calciner where the product greencake is removed. Grease oxide is placed in metal cans for storage prior to calcination and eventual dissolution for recovery. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt%, but has no supporting data.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

IDC 089: D007 was identifed based on spepcific process knowledge. Chromium contamination of plutonium greencake is possible from the nitric acid leaching stainless-steel equipment during calcination. Also, small particles of the stainless steel wear plates are contained in the grease oxide. EPA Code D007 is assigned based on this information.

IDC 090 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in plutonium tetrafluoride have been detected. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the Toxicity Characteristic Leaching Procedure (TCLP) extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 091 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 091, impure fluoride, would have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the glovebox and equipment. In addition, inside surface corrosion of a stainless-steel container of IDC 091 was recently discovered. The corrosion of stainless steel removes chromium from the container and contaminates the plutonium fluoride. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 092 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 092, impure fluoride heel, would have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the dissolution process. Additional chromium could be added from the leaching of stainless-steel equipment by nitric acid. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 097 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in ICD 090 plutonium tetrafluroide have been detected. IDC 097 is assigend based on this inforamtiohn. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 099 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 099, grease fluoride, is assumed to have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the glovebox and equipment. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

Subpopulation 33F was identified based on specific process knowledge. The only compounds associated with the sodium fluoride pellets are sodium fluoride and plutonium hexafluoride. These compounds are not listed or characteristic RCRA compounds. Any RCRA-metal contamination of the plutonium feed stream remained in the product or fluid-bed material and did not contaminate the sodium fluoride pellets.

Waste Characterization Regulatory Discussion and Conclusion

The waste form plutonium fluoride and fluoride heel was characterized in conformance with WASTRENS's internal backlog waste reassessment characterization procedures, which are based on 6 CCR 1007-3, 40 CFR 260-280, and "U.S. DOE Definitions

MANAGEMENT COMMENTS

N/A

ACCEPTANCE COMMENTS

RFP currently manges all of its mixed waste as LDR storage prohibited, independent of its generation date.

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

FINAL FORM COMMENTS

The volumes and the radionuclide concentrations developed in the profile were based on processing plutonium residues for actinide separation. RFETS has modified this processing plan. Residues will be processed to meet WIPP WAC, TRAMPAC, and safe storage conditions. The modified volumes and radionuclide concentrations are reflected in the WIPP level roll-ups.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W076	Handling:	CH	NMVP #:	N/A	Stream Name:	Process Residues/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3119

AS-GENERATED EPA CODES

D007

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.01	0.0	0.0	0.0	0.0	0.01
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.01 Projected: 0.0 Total: 0.01

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

This waste form contains some ash, and it also is solid chunks and fine particulate material. Some liquids may be present.

IDC 092 - Impure Fluoride Heel
IDC 290 - Filter Sludge
IDC 332 - Oily sludge
IDC 340 - sludge from size reduction area
IDC 422 - Must be processed into IDC 806 for disposal.
IDC 423 - Must be processed into IDC 806 for disposal.
IDC 089 - Grease Oxide (green cake)
IDC 080 - Pu Tetrafluoride
IDC 090 -
IDC 091 - Non-Spec Fluoride
IDC 097 - Impure Fluoride in small cans -- Building 371
IDC 099 - Grease Fluoride

WASTE STREAM SOURCE

IDC 090 is produced in the Flourination Process is Glovebox 7 in Building 771. Calcined plutonium oxide, "green cake", is transferred to Glovebox 7 by an enclosed pneumatic transfer system. The plutonium oxide is manually fed into a hopper from which it is augured into the hydrofluorinator. The hydrofluorinator is a slightly inclined, horizontal, rotary-tube furnace. Anhydrous hydrogen fluoride gas is introduced at the discharge zone of the tube. The plutonium tetrafluoride is collected in plastic bottles and transferred to the Fluoride Reduction Process. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt%, but has no supporting data.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

IDC 089: D007 was identifed based on spepcific process knowledge. Chromium contamination of plutonium greencake is possible from the nitric acid leaching stainless-steel equipment during calcination. Also, small particles of the stainless steel wear plates are contained in the grease oxide. EPA Code D007 is assigned based on this information.

IDC 090 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in plutonium tetrafluoride have been detected. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the Toxicity Characteristic Leaching Procedure (TCLP) extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 091 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 091, impure fluoride, would have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the glovebox and equipment. In addition, inside surface corrosion of a stainless-steel container of IDC 091 was recently discovered. The corrosion of stainless steel removes chromium from the container and contaminates the plutonium fluoride. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 092 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 092, impure fluoride heel, would have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the dissolution process. Additional chromium could be added from the leaching of stainless-steel equipment by nitric acid. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 097 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in ICD 090 plutonium tetrafluroide have been detected. IDC 097 is assigend based on this inforamtiohn. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 099 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 099, grease fluoride, is assumed to have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the glovebox and equipment. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

Subpopulation 33F was identified based on specific process knowledge. The only compounds associated with the sodium fluoride pellets are sodium fluoride and plutonium hexafluoride. These compounds are not listed or characteristic RCRA compounds. Any RCRA-metal contamination of the plutonium feed stream remained in the product or fluid-bed material and did not contaminate the sodium fluoride pellets.

Waste Characterization Regulatory Discussion and Conclusion

The waste form plutonium fluoride and fluoride heel was characterized in conformance with WASTRENS's internal backlog waste reassessment characterization procedures, which are based on 6 CCR 1007-3, 40 CFR 260-280, and "U.S. DOE Definitions

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manges all of its mixed waste as LDR storage prohibited, independent of its generation date.

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

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W076	Handling:	CH	NMVP #:	N/A	Stream Name:	Process Residues/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3119

AS-GENERATED EPA CODES

D007

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.3	0.0	0.0	0.0	0.0	0.3
Totals	0.3	0.0	0.0	0.0	0.0	0.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.3 Projected: 0.0 Total: 0.3

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

This waste form contains some ash, and it also is solid chunks and fine particulate material. Some liquids may be present.

IDC 092 - Impure Fluoride Heel
IDC 290 - Filter Sludge
IDC 332 - Oily sludge
IDC 340 - sludge from size reduction area
IDC 422 - Must be processed into IDC 806 for disposal.
IDC 423 - Must be processed into IDC 806 for disposal.
IDC 089 - Grease Oxide (green cake)
IDC 080 - Pu Tetrafluoride
IDC 090 -
IDC 091 - Non-Spec Fluoride
IDC 097 - Impure Fluoride in small cans -- Building 371
IDC 099 - Grease Fluoride

WASTE STREAM SOURCE

IDC 091 is produced in the Fluorination Process in Gloveboxes 6 and 7 in Building 771. The plutonium tetrafluoride is produced in the same manner as described for IDC 090 but is not pure enough for fluoride reduction. The impure fluoride is collected from the equipment and floor of Glovebox 7 or is filtered from the hydrofluorinator scrubber liquid (potassium hydroxide solution) in Glovebox 6. The impure fluoride was placed in metal cans and stored prior to acid dissolution (for plutonium recovery) in Gloveboxes 3 and 24. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt%, but has no supporting data.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

IDC 089: D007 was identifed based on spepcific process knowledge. Chromium contamination of plutonium greencake is possible from the nitric acid leaching stainless-steel equipment during calcination. Also, small particles of the stainless steel wear plates are contained in the grease oxide. EPA Code D007 is assigned based on this information.

IDC 090 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in plutonium tetrafluoride have been detected. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the Toxicity Characteristic Leaching Procedure (TCLP) extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 091 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 091, impure fluoride, would have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the glovebox and equipment. In addition, inside surface corrosion of a stainless-steel container of IDC 091 was recently discovered. The corrosion of stainless steel removes chromium from the container and contaminates the plutonium fluoride. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 092 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 092, impure fluoride heel, would have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the dissolution process. Additional chromium could be added from the leaching of stainless-steel equipment by nitric acid. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 097 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in ICD 090 plutonium tetrafluroide have been detected. IDC 097 is assigend based on this inforamtiohn. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 099 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 099, grease fluoride, is assumed to have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the glovebox and equipment. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

Subpopulation 33F was identified based on specific process knowledge. The only compounds associated with the sodium fluoride pellets are sodium fluoride and plutonium hexafluoride. These compounds are not listed or characteristic RCRA compounds. Any RCRA-metal contamination of the plutonium feed stream remained in the product or fluid-bed material and did not contaminate the sodium fluoride pellets.

Waste Characterization Regulatory Discussion and Conclusion

The waste form plutonium fluoride and fluoride heel was characterized in conformance with WASTRENS's internal backlog waste reassessment characterization procedures, which are based on 6 CCR 1007-3, 40 CFR 260-280, and "U.S. DOE Definitions

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manges all of its mixed waste as LDR storage prohibited, independent of its generation date.

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

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W076	Handling:	CH	NMVP #:	N/A	Stream Name:	Process Residues/TRM
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics

Inventory Date: 10/20/94

Waste Matrix Code: S3119

AS-GENERATED EPA CODES

D007

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.1	0.0	0.0	0.0	0.0	0.1
Totals	0.1	0.0	0.0	0.0	0.0	0.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.1 Projected: 0.0 Total: 0.1

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

This waste form contains some ash, and it also is solid chunks and fine particulate material. Some liquids may be present.

IDC 092 - Impure Fluoride Heel
IDC 290 - Filter Sludge
IDC 332 - Oily sludge
IDC 340 - sludge from size reduction area
IDC 422 - Must be processed into IDC 806 for disposal.
IDC 423 - Must be processed into IDC 806 for disposal.
IDC 089 - Grease Oxide (green cake)
IDC 080 - Pu Tetrafluoride
IDC 090 -
IDC 091 - Non-Spec Fluoride
IDC 097 - Impure Fluoride in small cans -- Building 371
IDC 099 - Grease Fluoride

WASTE STREAM SOURCE

IDC 092/097 is produced in the Dissolution Process in Gloveboxes 3 and 24 in Building 771. IDC 091 impure plutonium tetrafluoride is placed in a dissolution pot with heated nitric acid. The solution (plutonium nitrate) is pulled by vacuum through an R-6 filter to remove undissolved solids. The undissolved solids are impure fluoride heels that are dried on a hot plate. The impure fluoride heels are placed in metal cans and stored for recycle into the same Dissoloution Process. IDC 097 differs from IDC 092 in packaging only. RE: Section 8.2.11 RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt%, but has no supporting data.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

IDC 089: D007 was identifed based on spepcific process knowledge. Chromium contamination of plutonium greencake is possible from the nitric acid leaching stainless-steel equipment during calcination. Also, small particles of the stainless steel wear plates are contained in the grease oxide. EPA Code D007 is assigned based on this information.

IDC 090 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in plutonium tetrafluoride have been detected. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the Toxicity Characteristic Leaching Procedure (TCLP) extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 091 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 091, impure fluoride, would have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the glovebox and equipment. In addition, inside surface corrosion of a stainless-steel container of IDC 091 was recently discovered. The corrosion of stainless steel removes chromium from the container and contaminates the plutonium fluoride. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 092 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 092, impure fluoride heel, would have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the dissolution process. Additional chromium could be added from the leaching of stainless-steel equipment by nitric acid. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 097 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in ICD 090 plutonium tetrafluroide have been detected. IDC 097 is assigend based on this inforamtiohn. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 099 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 099, grease fluoride, is assumed to have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the glovebox and equipment. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

Subpopulation 33F was identified based on specific process knowledge. The only compounds associated with the sodium fluoride pellets are sodium fluoride and plutonium hexafluoride. These compounds are not listed or characteristic RCRA compounds. Any RCRA-metal contamination of the plutonium feed stream remained in the product or fluid-bed material and did not contaminate the sodium fluoride pellets.

Waste Characterization Regulatory Discussion and Conclusion

The waste form plutonium fluoride and fluoride heel was characterized in conformance with WASTRENS's internal backlog waste reassessment characterization procedures, which are based on 6 CCR 1007-3, 40 CFR 260-280, and "U.S. DOE Definitions

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manges all of its mixed waste as LDR storage prohibited, independent of its generation date.

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

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W076	Handling:	CH	NMVP #:	N/A	Stream Name:	Process Residues/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3119

AS-GENERATED EPA CODES

D007

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.1	0.0	0.0	0.0	0.0	0.1
Totals	0.1	0.0	0.0	0.0	0.0	0.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.1 Projected: 0.0 Total: 0.1

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

This waste form contains some ash, and it also is solid chunks and fine particulate material. Some liquids may be present.

IDC 092 - Impure Fluoride Heel
IDC 290 - Filter Sludge
IDC 332 - Oily sludge
IDC 340 - sludge from size reduction area
IDC 422 - Must be processed into IDC 806 for disposal.
IDC 423 - Must be processed into IDC 806 for disposal.
IDC 089 - Grease Oxide (green cake)
IDC 080 - Pu Tetrafluoride
IDC 090 -
IDC 091 - Non-Spec Fluoride
IDC 097 - Impure Fluoride in small cans -- Building 371
IDC 099 - Grease Fluoride

WASTE STREAM SOURCE

IDC 092/097 is produced in the Dissolution Process in Gloveboxes 3 and 24 in Building 771. IDC 091 impure plutonium tetrafluoride is placed in a dissolution pot with heated nitric acid. The solution (plutonium nitrate) is pulled by vacuum through an R-6 filter to remove undissolved solids. The undissolved solids are impure fluoride heels that are dried on a hot plate. The impure fluoride heels are placed in metal cans and stored for recycle into the same Dissoloution Process. IDC 097 differs from IDC 092 in packaging only. RE: Section 8.2.11 RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt%, but has no supporting data.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

IDC 089: D007 was identifed based on spepcific process knowledge. Chromium contamination of plutonium greencake is possible from the nitric acid leaching stainless-steel equipment during calcination. Also, small particles of the stainless steel wear plates are contained in the grease oxide. EPA Code D007 is assigned based on this information.

IDC 090 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in plutonium tetrafluoride have been detected. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the Toxicity Characteristic Leaching Procedure (TCLP) extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 091 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 091, impure fluoride, would have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the glovebox and equipment. In addition, inside surface corrosion of a stainless-steel container of IDC 091 was recently discovered. The corrosion of stainless steel removes chromium from the container and contaminates the plutonium fluoride. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 092 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 092, impure fluoride heel, would have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the dissolution process. Additional chromium could be added from the leaching of stainless-steel equipment by nitric acid. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 097 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) In ICD 090 plutonium tetrafluroide have been detected. IDC 097 is assigend based on this inforamtiohn. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 099 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) In IDC 090 plutonium tetrafluoride have been detected. IDC 099, grease fluoride, is assumed to have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the glovebox and equipment. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

Subpopulation 33F was identified based on specific process knowledge. The only compounds associated with the sodium fluoride pellets are sodium fluoride and plutonium hexafluoride. These compounds are not listed or characteristic RCRA compounds. Any RCRA-metal contamination of the plutonium feed stream remained in the product or fluid-bed material and did not contaminate the sodium fluoride pellets.

Waste Characterization Regulatory Discussion and Conclusion

The waste form plutonium fluoride and fluoride heel was characterized in conformance with WASTRENS's internal backlog waste reassessment characterization procedures, which are based on 6 CCR 1007-3, 40 CFR 260-280, and "U.S. DOE Definitions

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manges all of its mixed waste as LDR storage prohibited, independent of its generation date.

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

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W076	Handling:	CH	NMVP #:	N/A	Stream Name:	Process Residues/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3119

AS-GENERATED EPA CODES

D007

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.01	0.0	0.0	0.0	0.0	0.01
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.01 Projected: 0.0 Total: 0.01

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

This waste form contains some ash, and it also is solid chunks and fine particulate material. Some liquids may be present.

IDC 092 - Impure Fluoride Heel
IDC 290 - Filter Sludge
IDC 332 - Oily sludge
IDC 340 - sludge from size reduction area
IDC 422 - Must be processed into IDC 806 for disposal.
IDC 423 - Must be processed into IDC 806 for disposal.
IDC 089 - Grease Oxide (green cake)
IDC 080 - Pu Tetrafluoride
IDC 090 -
IDC 091 - Non-Spec Fluoride
IDC 097 - Impure Fluoride in small cans -- Building 371
IDC 099 - Grease Fluoride

WASTE STREAM SOURCE

IDC 099 is produced in the Fluorination Process in Gloveboxes 6 and 7 in Building 771. The grease fluoride is a mixture of plutonium fluoride and grease from the hydrofluorination equipment. The grease fluoride is placed in metal cans for storage prior to calcination and eventual dissolution for recovery. RE: Section 8.2.11 RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt%, but has no supporting data.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

IDC 089: D007 was identifed based on spepcific process knowledge. Chromium contamination of plutonium greencake is possible from the nitric acid leaching stainless-steel equipment during calcination. Also, small particles of the stainless steel wear plates are contained in the grease oxide. EPA Code D007 is assigned based on this information.

IDC 090 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in plutonium tetrafluoride have been detected. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the Toxicity Characteristic Leaching Procedure (TCLP) extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 091 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 091, impure fluoride, would have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the glovebox and equipment. In addition, inside surface corrosion of a stainless-steel container of IDC 091 was recently discovered. The corrosion of stainless steel removes chromium from the container and contaminates the plutonium fluoride. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 092 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 092, impure fluoride heel, would have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the dissolution process. Additional chromium could be added from the leaching of stainless-steel equipment by nitric acid. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 097 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm

(total) In ICD 090 plutonium tetrafluroide have been detected. IDC 097 is assigend based on this inforamtiohn. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 099 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 099, grease fluoride, is assumed to have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the glovebox and equipment. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

Subpopulation 33F was identified based on specific process knowledge. The only compounds associated with the sodium fluoride pellets are sodium fluoride and plutonium hexafluoride. These compounds are not listed or characteristic RCRA compounds. Any RCRA-metal contamination of the plutonium feed stream remained in the product or fluid-bed material and did not contaminate the sodium fluoride pellets.

Waste Characterization Regulatory Discussion and Conclusion

The waste form plutonium fluoride and fluoride heel was characterized in conformance with WASTRENS's internal backlog waste reassessment characterization procedures, which are based on 6 CCR 1007-3, 40 CFR 260-280, and "U.S. DOE Definitions

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manges all of its mixed waste as LDR storage prohibited, independent of its generation date.

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

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W076	Handling:	CH	NMVP #:	N/A	Stream Name:	Process Residues/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3119

AS-GENERATED EPA CODES

F005, F003, F002, F001, D008, D007, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

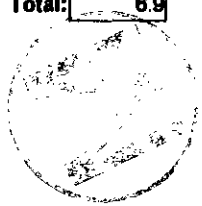
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	6.9	0.0	0.0	0.0	0.0	6.9
Totals	6.9	0.0	0.0	0.0	0.0	6.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 6.9 Projected: 0.0 Total: 6.9

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0



WASTE STREAM DESCRIPTION

This waste form contains some ash, and it also is solid chunks and fine particulate material. Some liquids may be present.

IDC 092 - Impure Fluoride Heel
IDC 290 - Filter Sludge
IDC 332 - Oily sludge
IDC 340 - sludge from size reduction area
IDC 422 - Must be processed into IDC 806 for disposal.
IDC 423 - Must be processed into IDC 806 for disposal.
IDC 089 - Grease Oxide (green cake)
IDC 080 - Pu Tetrafluoride
IDC 090 -
IDC 091 - Non-Spec Fluoride
IDC 097 - Impure Fluoride in small cans -- Building 371
IDC 099 - Grease Fluoride

WASTE STREAM SOURCE

The backlog inventory of IDC 290 includes materials generated as high-vacuum grease (green cake) in the Calcination Process in Building 771; as incinerator sludge from Building 771; as lab waste from Building 559 and 771; as miscellaneous sludge from an unknown source in Building 771; and as vacuum pump sludge from Building 771. High-vacuum grease, would have been produced when bvacuum grease applied to stainless-steel plates at either end of the rotary tube calciner became contaminated with plutonuim oxide during the calcination of plutonium peroxide. Incinerator sludge could have been generated by the recovery incinerator in Building 771. Lab waste could have been generated by laboratory processes in Buildings 559 and 771. The vacuum pump (Nash pump) sludge could have been generated by pumps in Building 771. RE: Section 8.2.11 RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt%, but has no supporting data.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

IDC 089: D007 was identifed based on spepcific process knowledge. Chromium contamination of plutonium greencake is possible from the nitric acid leaching stainless-steel equipment during calcination. Also, small particles of the stainless steel wear plates are contained in the grease oxide. EPA Code D007 is assigned based on this information.

IDC 090 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in plutonium tetrafluoride have been detected. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the Toxicity Characteristic Leaching Procedure (TCLP) extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 091 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 091, impure fluoride, would have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the glovebox and equipment. In addition, inside surface corrosion of a stainless-steel container of IDC 091 was recently discovered. The corrosion of stainless steel removes chromium from the container and contaminates the plutonium fluoride. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 092 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 092, impure fluoride heel, would have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the dissolution process. Additional chromium could be added from the leaching of stainless-steel equipment by nitric acid. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5

ppm, which would be RCRA characteristic.

IDC 097 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in ICD 090 plutonium tetrafluroide have been detected. IDC 097 is assigend based on this inforamtiohn. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 099 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 099, grease fluoride, is assumed to have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the glovebox and equipment. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

Subpopulation 33F was identified based on specific process knowledge. The only compounds associated with the sodium fluoride pellets are sodium fluoride and plutonium hexafluoride. These compounds are not listed or characteristic RCRA compounds. Any RCRA-metal contamination of the plutonium feed stream remained in the product or fluid-bed material and did not contaminate the sodium fluoride pellets.

Waste Characterization Regulatory Discussion and Conclusion

The waste form plutonium fluoride and fluoride heel was characterized in conformance with WASTRENS's internal backlog waste reassessment characterization procedures, which are based on 6 CCR 1007-3, 40 CFR 260-280, and "U.S. DOE Definitions

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manges all of its mixed waste as LDR storage prohibited, independent of its generation date.

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

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W037	Handling:	CH	NMVP #:	RF 117	Stream Name:	Heavy Metal (non-SS)/TRM	Inventory Date:	10/20/94
Local ID:	IDC 320	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5112

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

RF 117

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	3.3	0.0	0.0	0.0	0.0	3.3
Totals	3.3	0.0	0.0	0.0	0.0	3.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 3.3 Projected: 0.0 Total: 3.3

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	IDC 320 - Scrap metals which are heavier than iron and steel. Metal above Cu on the periodic table. Mainly used tantalum crucibles. Does not include lead.
WASTE STREAM SOURCE	Heavy metals have been produced as by-products of Rocky Flats operations in Buildings 371, 707, 771, 776, 777, 779, and 865; they are identified by IDC 320. The IDC 320 heavy nonspecial source metal was generated in various locations throughout the Rocky Flats and is stored in Resource Conservation and Recovery Act (RCRA) Units 11, 12, 13, 15A, and 20. This IDC includes nonstainless-steel metals that are heavier than iron. Examples of this waste include crucibles, funnels, rods, and process fixtures. These items are made primarily from tantalum, tungsten, and platinum, but some parts could have been manufactured or contaminated with lead if the accumulation start date was prior to 1987. IDC 320 originally included lead. During maintenance operations, the maintenance shop in Building 371 generated heavy metal vessels, instruments, rods, and plates fabricated from tantalum, tungsten, and platinum. The shop generated these items during 4 1/2 years of operation from 1983 until 1988. Of these containers in storage, 19 backlog containers have an EPA Code of D008 (lead); eight of these were produced after 1987. Building 707, Modules A and J, generated heavy metals in its foundry operations. These heavy metals were primarily crucibles and pans used for presampling. These processes generated material during 6 1/2 years of operation from 1985 until 1991. Nine backlog containers have an EPA Code of D008 (lead). The plutonium recovery operations in Building 771 generated leached Oralloy parts consisting of tantalum, tungsten, and platinum. The system generated material during 3 years of operation from 1987 until 1990. Five backlog containers have an EPA Code of D008 (lead); four of these backlog containers were produced after 1987. Building 776, Pyrochemical Processing, generated material during almost three years of operation from 1988 until 1990. This material consists primarily of tantalum crucibles, stirrers, and cans from MSE, salt scrub, and anode heel processes. Eight containers have an EPA Code of D008 (lead). Building 777, the Coatings Laboratory, generated material during a 2-year period of operation from 1988 until 1990. This material consists primarily of various heavy metals used in the research and development of coating technologies. These backlog containers have been associated with lead as a constituent and were produced after 1987. The Residue Treatment Technology Group, Building 779, generated crucibles, stirrers, and other general lab equipment derived from tantalum and tungsten. In Building 779, the Physical Metallurgy Group generated tantalum materials used in casting and cast testing. Additionally, the Surface Analysis Laboratory in Building 779 generated heavy metal samples primarily of depleted uranium (D-38). IDC 320 material was produced by Building 779 operations over a 10-year period from 1981 until 1991. Nine backlog containers have an EPA Code of D008 (lead), six were produced after 1987.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	One subpopulation (25A) was identified based on specific process knowledge and generation date. The EPA Code D008 was assigned to this subpopulation because of contact with known lead products and process association. This subpopulation consists of containers produced before or during 1987. The WEMS database lists the EPA Code D008 for these containers. Because of the generation date, a conservative position has been taken by placing backlog drums with the DOO8 (lead) EPA Code in this subpopulation. The primary buildings of generation were 371, 707, 771, 776, 779. Subpopulation 25B was identified based on specific process knowledge and generation date. At this time, the generation date has been used judiciously in separating and characterizing containers with lead. The EPA Code D008 was assigned to this subpopulation because of contact with known lead products and process association. This subpopulation consists of containers produced before or during 1987. The WEMS database lists the EPA Code D008 for these containers. Because of the generation date, a conservative position has been taken by placing backlog drums with the D008 (lead) EPA Code in this subpopulation. The primary buildings of generation were 371, 707, 771, 776, and 779.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. Future generation is projected beyond 1999.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W028	Handling:	CH	NMVP #:	N/A	Stream Name:	Lead/TRM	Inventory Date:	10/20/94
Local ID:	IDC 321	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Lead/Cadmium Metal Waste	Waste Matrix Code:	X7211

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

This waste form consists of metallic lead in the form of sheets, bricks, or tape.

Physical form: solid

Currently, no analytical data for lead waste is available. Process knowledge is the basis for characterization of this waste form. Lead waste (IDC 321) from non-specific sources is believed to have only lead (D008) as a hazardous constituent. In numerous tests of elemental lead, EP toxicity values exceed those listed in Table 1, 40 CFR 261.24. It is assumed that IDC 321 would also exceed EP toxicity limits for lead.

WASTE STREAM SOURCE

Transuranic lead was generated at a number of locations throughout Rocky Flats and includes IDC 321. The as-low-as-reasonably- achievable (ALARA) principle requires that the exposure of workers to radiation be kept "as low as reasonable achievable." In support of this principle, selected components and surfaces of gloveboxes enclosing materials that generate elevated levels of penetrating radiation (primarily gamma radiation) are commonly covered with metallic lead sheeting. The lead serves to attenuate the radiation dose received by employees working in the glovebox or in proximity to the glovebox. Lead waste (IDC 321) components are generally composed of lead bricks, lead shielding, and lead tape.

The lead or lead-covered components may become waste due to replacement, modification, or decommissioning activities. The dates of generation for IDC 321 range from August 15, 1986 to March 1, 1994.

The lead waste form is not a by-product of any process routinely performed at Rocky Flats. According to WSRIC Building Books, lead is most commonly generated as a result of maintenance activities. The lead waste is generally composed of lead shielding, scrap lead metal, and lead tape. The lead waste is collected in standard waste drums. The lead waste form was generated in Buildings 371, 559, 707, 771, 776, 777, and 779.

This stream is generated from Facility Operations, Analytical Laboratories, and R&D Laboratories.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

Drums Containing Scrap Lead Metal and Lead Shielding

Scrap lead metal and lead shielding exhibit the characteristic of toxicity for lead (D008). Subpopulation 8A was identified based on specific process knowledge and analytical results from elemental lead waste. According to WEMS, WSRIC, drums reports, and internal correspondence, the waste primarily consists of lead bricks, lead shielding, and scrap lead metal. Although some of waste could have come in contact with solvents, it is not considered to be a listed waste if the metal was wiped down with solvents for decontamination or paint stripping purposes, or if it was generated by the decommissioning of gloveboxes or other container-like apparatuses. Additional EPA codes are assigned to the waste based on process knowledge.

MANAGEMENT COMMENTS

N/A

ACCEPTANCE COMMENTS

RFP has determined this waste form to be LDR waste based on process knowledge available for TRU lead waste (IDC 321) and the fact that elemental lead exceeds values for EP toxicity pursuant to 40 CFR 261 24. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: This waste is packaged in 55-gallon drums lined with a fiberboard liner and two polyethylene bag liners.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W012	Handling:	CH	NMVP #:	None	Stream Name:	Combustibles, dry/REM	Inventory Date:	10/24/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5390

AS-GENERATED EPA CODES

F002, F001, F005, D008, D007, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

None

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
drum / 55-gallon	19.1	0.0	0.0	0.0	0.0	19.1
Totals	19.1	0.0	0.0	0.0	0.0	19.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 19.1 Projected: 0.0 Total: 19.1

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste consits of rags, paper, cloth, coveralls, plastic, rubber, and wood. The waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills. The bulk of these wastes are packaged in 55-gallon drums with one rigid polyethylene liner and several bag liners. In addition, the waste may be packaged in DOT 7A Type A metal boxes which are lined with a fiberboard liner and a PVC liner or standard TRUPACT-II container. The containers are then assayed and transferred to interim status storage areas. These wastes have been shipped to the INEL for stroage in the past. RF-330, 356, 337, 821, 822, 853, 831, 832, 833. Predominantly combustible debris.
WASTE STREAM SOURCE	IDC 330 is Dry Combustibles. This IDC is dry combustibles such as cloth, paper, and wood. This IDC changes to 821, 831, 851, or 861 at the point of assay, depending on radiological content. Containers of IDC 330 currently in inventory were generated in all buildings handling fissile material. This stream is generated from Facility Operation, Analytical Laboratories, R&D Laboratories, and Spill Cleanups. RE: Section 6.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt. %, but has no supporting data.
CURRENT CONTAINER COMMENTS	See Comment ##
EPA COMMENTS	A- Process knowledge based upon general knowledge of waste type or source (e.g., there is some probability of a waste constituent being absent or present). Bounding analytical data have not been compiled in a form that is compatible with this report. This effort has been completed and the results are available in the Final Backlog Baseline Book dated September 26, 1994.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	GENERAAREA: Numerous locations throughout RFP.GENOPERATI: RECLASS_CO: Rocky Flats assays wastes to determine waste type instead of relying on process knowledge or historical data. For this reason, the potential for reclassification has not been analyzed.CATION: Not applicable OTHER_CHAR: No information available. RFP has assumed this waste to be LDR based on process knowledge characterization, and one sample analyzed for volatiles in 1988. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its genration date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. Analytical data are limited. WASTE_PACK: This waste is stored in 55 gallon carbon steel drums with one rigid polyethylene liner and several bag liners and standard metal boxes.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W076	Handling:	CH	NMVP #:	N/A	Stream Name:	Process Residues/TRM
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics

Inventory Date: 10/20/94

Waste Matrix Code: S3119

AS-GENERATED EPA CODES

D007

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

This waste form contains some ash, and it also is solid chunks and fine particulate material. Some liquids may be present.

IDC 092 - Impure Fluoride Heel
IDC 290 - Filter Sludge
IDC 332 - Oily sludge
IDC 340 - sludge from size reduction area
IDC 422 - Must be processed into IDC 806 for disposal.
IDC 423 - Must be processed into IDC 806 for disposal.
IDC 089 - Grease Oxide (green cake)
IDC 080 - Pu Tetrafluoride
IDC 090 -
IDC 091 - Non-Spec Fluoride
IDC 097 - Impure Fluoride in small cans -- Building 371
IDC 099 - Grease Fluoride

WASTE STREAM SOURCE

IDC 332 includes oily sludge generated in Building 776 in an unknown location, and solidified scintillation cocktail waste generated in Building 771. In the past, the oily sludge generated in Building 776 was sent to Building 771 for dissolution. Each container of sludge was opened for inspection; some cans were processed while others were not. The cans that were not processed were labeled IDC 332 and stored, awaiting recovery processing. The scintillation cocktail waste includeds liquid scintillation waste to which diatomaceous earth was added as a solidifying agent. IDC 332 was assigned to this material because it was felt that it was more appropriate than any other IDC.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates 1 wt% but has no supporting data.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

IDC 089: D007 was identifed based on spepcific process knowledge. Chromium contamination of plutonium greencake is possible from the nitric acid leaching stainless-steel equipment during calcination. Also, small particles of the stainless steel wear plates are contained in the grease oxide. EPA Code D007 is assigned based on this information.

IDC 090 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in plutonium tetrafluoride have been detected. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the Toxicity Characteristic Leaching Procedure (TCLP) extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 091 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 091, impure fluoride, would have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the glovebox and equipment. In addition, inside surface corrosion of a stainless-steel container of IDC 091 was recently discovered. The corrosion of stainless steel removes chromium from the container and contaminates the plutonium fluoride. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 092 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 092, impure fluoride heel, would have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the dissolution process. Additional chromium could be added from the leaching of stainless-steel equipment by nitric acid. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP

extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 097 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in ICD 090 plutonium tetrafluroide have been detected. IDC 097 is assigend based on this inforamtiohn. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 099 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 099, grease fluoride, is assumed to have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the glovebox and equipment. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

Subpopulation 33F was identified based on specific process knowledge. The only compounds associated with the sodium fluoride pellets are sodium fluoride and plutonium hexafluoride. These compounds are not listed or characteristic RCRA compounds. Any RCRA-metal contamination of the plutonium feed stream remained in the product or fluid-bed material and did not contaminate the sodium fluoride pellets.

Waste Characterization Regulatory Discussion and Conclusion

The waste form plutonium fluoride and fluoride heel was characterized in conformance with WASTRENS's internal backlog waste reassessment characterization procedures, which are based on 6 CCR 1007-3, 40 CFR 260-280, and "U.S. DOE Definitions

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manges all of its mixed waste as LDR storage prohibited, independent of its generation date.

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

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W012	Handling:	CH	NMVP #:	None	Stream Name:	Combustibles/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5390

AS-GENERATED EPA CODES

F003, F002, F001, D008, D007, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

None

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes						
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	20.2	0.0	0.0	0.0	0.0	20.2
Totals	20.2	0.0	0.0	0.0	0.0	20.2

Final Waste Form Volumes						
Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 20.2 Projected: 0.0 Total: 20.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste consits of rags, paper, cloth, coveralls, plastic, rubber, and wood. The waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills. The bulk of these wastes are packaged in 55-gallon drums with one rigid polyethylene liner and several bag liners. In addition, the waste may be packaged in DOT 7A Type A metal boxes which are lined with a fiberboard liner and a PVC liner or standard TRUPACT-II container. The containers are then assayed and transferred to interim status storage areas. These wastes have been shipped to the INEL for stroage in the past. RF-330, 356, 337, 821, 822, 853, 831, 832, 833. Predominantly combustible debris.
WASTE STREAM SOURCE	Item Description 336, Combustibles, Wet Wet combustibles are paper, cloth, etc., which contain a discernible amount of moisture and must be drained or wrung out prior to packaging to prevent an accumulation of free liquid. This IDC changes to 822, 832, 852, or 862 at the point of assay. This stream is generated from Facility Operation, Analytical Laboratories, R&D Laboratories, and Spill Cleanups. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt. %, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	A- Process knowledge based upon general knowledge of waste type or source (e.g., there is some probability of a waste constituent being absent or present). Bounding analytical data have not been compiled in a form that is compatible with this report. This effort has been completed and the results are available in the Final Backlog Baseline Book dated September 26, 1994.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	GENERAAREA: Numerous locations throughout RFP.GENOPERATI: RECLASS_CO: Rocky Flats assays wastes to determine waste type instead of relying on process knowledge or historical data. For this reason, the potential for reclassification has not been analyzed.CATION: Not applicable OTHER_CHAR: No information available. RFP has assumed this waste to be LDR based on process knowledge characterization, and one sample analyzed for volatiles in 1988. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its genration date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. Analytical data are limited. WASTE_PACK: This waste is stored in 55 gallon carbon steel drums with one rigid polyethylene liner and several bag liners and standard metal boxes.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W012	Handling:	CH	NMVP #:	None	Stream Name:	Combustibles/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5390

AS-GENERATED EPA CODES

F002, F001, F005

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

None

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste consits of rags, paper, cloth, coveralls, plastic, rubber, and wood. The waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills. The bulk of these wastes are packaged in 55-gallon drums with one rigid polyethylene liner and several bag liners. In addition, the waste may be packaged in DOT 7A Type A metal boxes which are lined with a fiberboard liner and a PVC liner or standard TRUPACT-II container. The containers are then assayed and transferred to interim status storage areas. These wastes have been shipped to the INEL for stroage in the past. RF-330, 356, 337, 821, 822, 853, 831, 832, 833. Predominantly combustible debris.
WASTE STREAM SOURCE	IDC 337 represents PVC sheeting, poly bottles, supplied-air suits, polyethylene, and other plastics. IDC 337 changes to 825, 833, 853, or 863 at the point of assay. This stream is generated from Facility Operation, Analytical Laboratories, R&D Laboratories, and Spill Cleanups. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt. %, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	A- Process knowledge based upon general knowledge of waste type or source (e.g., there is some probability of a waste constituent being absent or present). Bounding analytical data have not been compiled in a form that is compatible with this report. This effort has been completed and the results are available in the Final Backlog Baseline Book dated September 26, 1994.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	GENERAAREA: Numerous locations throughout RFP.GENOPERATI: RECLASS_CO: Rocky Flats assays wastes to determine waste type instead of relying on process knowledge or historical data. For this reason, the potential for reclassification has not been analyzed.CATION: Not applicable OTHER_CHAR: No information available. RFP has assumed this waste to be LDR based on process knowledge characterization, and one sample analyzed for volatiles in 1988. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its genration date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. Analytical data are limited. WASTE_PACK: This waste is stored in 55 gallon carbon steel drums with one rigid polyethylene liner and several bag liners and standard metal boxes.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W029	Handling:	CH	NMVP #:	RF 123	Stream Name:	Leaded Dry Box Gloves/REM	Inventory Date:	10/20/94
Local ID:	IDC 339	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5311

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

RF 123

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

This waste stream is a solid matrix consisting of gloves with lead lining. There could be some free liquids in waste containers.

WASTE STREAM SOURCE

Leaded glovebox gloves are generated as waste at Rocky Flats by processes requiring a controlled atmosphere in Buildings 371, 374, 559, 707, 771, 774, 776, 777, 778, and 779 and encompasses IDCs 339 and 341. Prior to January 22, 1986, all leaded glovebox gloves were accumulated together as IDC 339 (Leaded Glovebox Gloves). At that time, IDC 341 (Leaded Glovebox Gloves, Acid Contaminated) was created. IDC 339 became "Leaded Glovebox Gloves, Nonacid Contaminated." Leaded glovebox gloves are replaced by schedule or as needed.

All backlog leaded glovebox gloves (IDC 0339 and 0341) were washed in Building 776 until about September 1989, at which time the process was curtailed. The primary purpose of the washing process was to remove the accountable material; however, the acid from the acid-contaminated gloves (IDC 341) was removed as well. After the acid-contaminated gloves were washed, the IDC was changed from 341 to 339. The glove washing process was curtailed upon completion of the inventory of backlog gloves.

Due to degradation from contact with process materials during normal process operations and age, the leaded glovebox gloves are replaced according to schedule or as necessary. Nonacid-contaminated leaded glovebox gloves (IDC 339) are generated as waste or residue depending on the assay, in Buildings 371, 374, 559, 707, 771, 774, 776, 779. Acid contaminated leaded glovebox gloves (IDC 341) were washed in Building 776 after which they were assigned IDC 339.

This stream is generated from Facility Operations, Analytical Laboratories, and R&D Laboratories.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

In addition to the reference documents and WEMS information, analytical data compiled by Rocky Flats were reviewed. This analytical information shows the presence of lead above the regulatory level stated in 6 CCR 1007-3, Section 261.24, in one sample, borderline in another, and well below the regulatory level in another.

Characterization is identified based on process knowledge. This population includes all IDC 339 nonacid contaminated gloves generated after the creation of IDC 341 (January 22, 1986). This population contains no acid-contaminated (IDC 341) gloves. This population exhibits the characteristic of toxicity for lead (D008). The primary buildings of generation were 371, 374, 559, 707, 771, 774, 776, 777, and 779.

One drum of IDC 339 gloves was generated before the creation of IDC 341 (January 22, 1986). Therefore, this drum could contain both acid- and nonacid-contaminated gloves.

Although numerous acids are used in aqueous processing, nitric is the acid of greatest concern because it dissolves the outer Hypalon layer of the gloves and reacts with the lead oxide layer to form lead nitrate and organic nitrate or nitro-organic compounds. These compounds are in very small quantities and do not cause the gloves to exhibit the characteristic of ignitability as outlined in 6 CCR 1007-3, Section 261.21. However, when dried, the compound decomposes violently at temperatures ranging from 60 to 130 degrees C. Also, the compound explodes when subjected to an impact load or when confined and ignited with a fuse. Unconfined, the compound burns violently when ignited with a spark. This drum is therefore assigned D003 for reactivity as outlined in 6 CCR 1007-3, Section 261.23 (a) (6).

Population 42A: Identified based on process knowledge, EPA codes, and generation dates. This population includes all IDC 339 nonacid contaminated gloves generated after the creation of IDC 341 (January 22, 1986). This population contains no acid-contaminated (IDC 341) gloves. This population exhibits the characteristic of toxicity for lead (D008). The primary buildings of generation were 371, 374, 559, 707, 771, 774, 776, 777, and 779.

Subpopulation 43B: This subpopulation includes all acid-contaminated leaded glove box gloves. As previously discussed, these gloves exhibit the characteristic of toxicity for lead (D008) and reactivity (D003). The primary buildings of generation were 371, 771, 777, and 779.

MANAGEMENT COMMENTS

N/A

ACCEPTANCE COMMENTS	RFP has assumed this waste to be LDR based on the fact that lead is a RCRA listed waste exhibiting the characteristic of toxicity. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: The gloves are packaged in 55-gallon drums lined with a rigid polyethylene liner and one bag liner.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W076	Handling:	CH	NMVP #:	N/A	Stream Name:	Process Residues/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3119

AS-GENERATED EPA CODES

F002, F001, D008, D007

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	1.9	0.0	0.0	0.0	0.0	1.9
Totals	1.9	0.0	0.0	0.0	0.0	1.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 1.9 Projected: 0.0 Total: 1.9

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

This waste form contains some ash, and it also is solid chunks and fine particulate material. Some liquids may be present.

IDC 092 - Impure Fluoride Heel
IDC 290 - Filter Sludge
IDC 332 - Oily sludge
IDC 340 - sludge from size reduction area
IDC 422 - Must be processed into IDC 806 for disposal.
IDC 423 - Must be processed into IDC 806 for disposal.
IDC 089 - Grease Oxide (green cake)
IDC 080 - Pu Tetrafluoride
IDC 090 -
IDC 091 - Non-Spec Fluoride
IDC 097 - Impure Fluoride in small cans -- Building 371
IDC 099 - Grease Fluoride

WASTE STREAM SOURCE

IDC 340 includes sludge generated during the washing of leaded glovebox gloves and non-RCRA-regulated metals with water in the size reduction vault in Building 776. The entire backlog inventory of IDC 340 was generated in Building 776. The wash water and sludge were separated in a tank, and the sludge was then sent to Building 771 for nondestructive assay and was put into drums there. RE: Section 8.2.11 RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt%, but has no supporting data.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

IDC 089: D007 was identifed based on spepcific process knowledge. Chromium contamination of plutonium greencake is possible from the nitric acid leaching stainless-steel equipment during calcination. Also, small particles of the stainless steel wear plates are contained in the grease oxide. EPA Code D007 is assigned based on this information.

IDC 090 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in plutonium tetrafluoride have been detected. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the Toxicity Characteristic Leaching Procedure (TCLP) extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 091 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 091, impure fluoride, would have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the glovebox and equipment. In addition, inside surface corrosion of a stainless-steel container of IDC 091 was recently discovered. The corrosion of stainless steel removes chromium from the container and contaminates the plutonium fluoride. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 092 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 092, impure fluoride heel, would have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the dissolution process. Additional chromium could be added from the leaching of stainless-steel equipment by nitric acid. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 097 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm

(total) in ICD 090 plutonium tetrafluroide have been detected. IDC 097 is assigend based on this inforamtiohn. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 099 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 099, grease fluoride, is assumed to have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the glovebox and equipment. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

Subpopulation 33F was identified based on specific process knowledge. The only compounds associated with the sodium fluoride pellets are sodium fluoride and plutonium hexafluoride. These compounds are not listed or characteristic RCRA compounds. Any RCRA-metal contamination of the plutonium feed stream remained in the product or fluid-bed material and did not contaminate the sodium fluoride pellets.

Waste Characterization Regulatory Discussion and Conclusion

The waste form plutonium fluoride and fluoride heel was characterized in conformance with WASTRENS's internal backlog waste reassessment characterization procedures, which are based on 6 CCR 1007-3, 40 CFR 260-280, and "U.S. DOE Definitions

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manges all of its mixed waste as LDR storage prohibited, independent of its generation date.

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

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W041	Handling:	CH	NMVP #:	N/A	Stream Name:	Leaded Gloves-Acid Contaminated/TRM	Inventory Date:	10/20/94
Local ID:	IDC 341	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5311

AS-GENERATED EPA CODES

D008, D003

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	1.7	0.0	0.0	0.0	0.0	1.7
Totals	1.7	0.0	0.0	0.0	0.0	1.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 1.7 Projected: 0.0 Total: 1.7

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

IDC No. 341. This waste stream consists of leaded rubber gloves used in the glovebox systems for plutonium recovery operations in Buildings 771 and 371. These gloves are contaminated with nitric acid and other acids when replaced and discarded as waste.

WASTE STREAM SOURCE

Leaded Glovebox Gloves

Waste Form/Item Description Code/Waste Form Code Background for the Leaded Glovebox Gloves Waste Form

Leaded glovebox gloves are generated as waste or residue at Rocky Flats by processes requiring a controlled atmosphere in Buildings 371, 374, 559, 707, 771, 774, 776, 777, 778, and 779 and encompasses IDCs 339 and 341. Prior to January 22, 1986, all leaded glovebox gloves were accumulated together as IDC 339 (Leaded Glovebox Gloves). At that time, IDC 341 (Leaded Glovebox Gloves, Acid Contaminated) was created. IDC 339 became "Leaded Glovebox Gloves, Nonacid Contaminated." Leaded glovebox gloves are replaced by schedule or as needed.

All backlog leaded glovebox gloves (IDC 0339 and 0341) were washed in Building 776 until about September 1989, at which time the process was curtailed. The primary purpose of the washing process was to remove the accountable material; however, the acid from the acid-contaminated gloves (IDC 341) was removed as well. After the acid-contaminated gloves were washed, the IDC was changed from 341 to 339. The glove washing process was curtailed upon completion of the inventory of backlog gloves.

Item Description Code 341

Acid-contaminated leaded glovebox gloves (IDC 341) are generated as waste or residue depending on the assay, in Buildings 371, 771, 777, and 779. Due to degradation from contact with process materials and age, the gloves are replaced according to schedule or as necessary. When acid-contaminated gloves (IDC 0341) were washed, the IDC was changed to 0339.

This stream is generated from Facility Operations, Analytical Laboratories, and R&D Laboratories.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

In addition to the reference documents and WEMS information, analytical data compiled by Rocky Flats were reviewed. This analytical information shows the presence of lead above the regulatory level stated in 6 CCR 1007-3, Section 261.24, in one sample, borderline in another and well below the regulatory level in another.

Leaded glovebox gloves are manufactured with a lead oxide layer between two or more layers of neoprene-Hypalon, for shielding against penetrating radiation. The available analytical data were obtained from unused, 30-millimeter-thick gloves. Analytical data for the lead content of 50- and 80-millimeter-thick leaded gloves are not available. However, the lead content is assumed to be substantially higher than the 30-millimeter-thick gloves. Also, the lead from used gloves, degraded from contact with process materials, may leach more readily than from unused gloves.

Toxicity Characteristic Leaching Procedure (TCLP) metals by Inductively Coupled Plasma Emission Spectroscopy showed the lead above the regulatory limit. Other contaminants include acid and base solutions and listed solvents. Glovebox gloves used in processes that require listed solvents are not considered listed solvent wastes because the gloves do not retain solvents in the same way paper or cloth wipes do. Contact of the gloves with solvents is considered incidental contact. Therefore, the gloves are not subject to the mixture rule.

IDC 341 includes leaded gloves exposed to acids which have not been washed. Although numerous acids are used in aqueous processing, nitric is the acid of greatest concern because it dissolves the outer Hypalon layer of the gloves and reacts with the lead oxide layer to form lead nitrate and organic nitrate or nitro-organic compounds. These compounds are in very small quantities and do not cause the gloves to exhibit the characteristic of ignitability as outlined in 6 CCR 1007-3, Section 261.21. However, when dried, the compound decomposes violently at temperatures ranging from 60 to 130 degrees C. Also, the compound explodes when subjected to an impact load or when confined and ignited with a fuse. Unconfined, the compound burns violently when ignited with a spark. IDC 341 leaded gloves are therefore

assigned D003 for reactivity as outlined in 6 CCR 1007-3, Section 261.23 (a)(6).

This subpopulation includes all IDC 341 acid-contaminated leaded glovebox gloves. As previously discussed, IDC 341 gloves exhibit the characteristic of toxicity for lead (D008), and reactivity (D003). The primary buildings of generation were 371, 771, 777, and 779.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP has determined that leaded gloves and acid-contaminated leaded gloves are LDR waste based on the process knowledge available. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

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

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W036	Handling:	CH	NMVP #:	N/A	Stream Name:	Firebrick, /REM	Inventory Date:	10/20/94
Local ID:	IDC 377,378,373,37	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3119

AS-GENERATED EPA CODES

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

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

RF-377

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Drum / 55-gallon	3.1	0.0	0.0	0.0	0.0	3.1
Totals	3.1	0.0	0.0	0.0	0.0	3.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 3.1 Projected: 0.0 Total: 3.1

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste form is firebrick that has been crushed and pulverized.
WASTE STREAM SOURCE	IDC 371 was generated during maintenance operations in the incineration systems in Building 771. This material was also generated during incinerator stripout operations in Building 371. Firebrick consists of brick and chunks of high-density alumina ceramic material used to line the firebox of the incinerator. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt% but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Subpopulations IK, IL, IM, IN EPA Codes D004-D011, F001, F002, F003, and F005 were assigned to these subpopulations based on the characterization of incinerator feed materials. Based on the characterization of the feed, alcohols, glycols, halogenated solvents, and metals may have been introduced into the incinerator. Because the specific sources of the incinerator feed cannot be determined at this time, it has been assumed that the process could have accepted any of the combustible, plastic, or filter waste currently contained in the backlog that were generated during the time the incinerator was operational. A report was generated from the Backlog Waste Reassessment database that summarizes the EPA codes assigned to inventory containers of combustibles (IDCs 330 and 336), plastics (337), and HEPA filters (331) generated about the same time that the incinerator was operational. The following EPA codes were contained in the database for these wastes; D004-D011, D018, D019, D028, D029, D035, D038, F001, F002, F003, and F005. It was assumed that the F-listed solvents would have to be applied due to the "derived-from" rule. The codes for the D-listed metals were applied because these metals would be concentrated during incineration. However, it was assumed that the D-listed solvent would be volatilized and driven off in this process. Therefore, these solvents would not be present at levels exceeding Toxicity Characteristic Leaching Procedure (TCLP) limits due to the thermal treatment. This subpopulation is land disposal restricted due to the presence of RCRA metals. It is not land disposal restricted for F-listed solvents because the Best Demonstrated Available Technology (BDAT) (thermal treatment) was used to treat this waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	Net and gross weight data are not available for all container types. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Variability surrounding fullness of containers precludes a meaningful computation of density. 2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. The waste is packaged in 55- gallon drums lined with a rigid polyethylene liner.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W036	Handling:	CH	NMVP #:	N/A	Stream Name:	Firebrick Heel/REM	Inventory Date:	10/20/94
Local ID:	IDC 377,378,373,37	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3119

AS-GENERATED EPA CODES

F003, D011, D009, D010, F001, D005, D004, D008, F002, F005, D007, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.8 Projected: 0.0 Total: 0.8

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste form is firebrick that has been crushed and pulverized.
WASTE STREAM SOURCE	During dissolution of scarfed firebrick (IDC 377 and 378), undissolved firebrick heel was generated in Building 771. Spent firebrick was subjected to a mechanical scarfing process to remove plutonium-bearing surface layers. Those layers were pulverized and subjected to a nitric acid dissolution process. The material that did not dissolve was filtered, dried, assayed, and set aside for additional processing. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Subpopulations IK, IL, IM, IN EPA Codes D004-D011, F001, F002, F003, and F005 were assigned to these subpopulations based on the characterization of incinerator feed materials. Based on the characterization of the feed, alcohols, glycols, halogenated solvents, and metals may have been introduced into the incinerator. Because the specific sources of the incinerator feed cannot be determined at this time, it has been assumed that the process could have accepted any of the combustible, plastic, or filter waste currently contained in the backlog that were generated during the time the incinerator was operational. A report was generated from the Backlog Waste Reassessment database that summarizes the EPA codes assigned to inventory containers of combustibles (IDCs 330 and 336), plastics (337), and Ful-Flo filters (331) generated about the same time that the incinerator was operational. The following EPA codes were contained in the database for these wastes; D004-D011, D018, D019, D026, D029, D035, D038, F001, F002, F003, and F005. It was assumed that the F-listed solvents would have to be applied due to the "derived-from" rule. The codes for the D-listed metals were applied because these metals would be concentrated during incineration. However, it was assumed that the D-listed solvent would be volatilized and driven off in this process. Therefore, these solvents would not be present at levels exceeding Toxicity Characteristic Leaching Procedure (TCLP) limits due to the thermal treatment. This subpopulation is land disposal restricted due to the presence of RCRA metals. It is not land disposal restricted for F-listed solvents because the Best Demonstrated Available Technology (BDAT) (thermal treatment) was used to treat this waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	Net and gross weight data are not available for all container types. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Variability surrounding fullness of containers precludes a meaningful computation of density. 2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. The waste is packaged in 55- gallon drums lined with a rigid polyethylene liner.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W008	Handling:	CH	NMVP #:	N/A	Stream Name:	Soil & Cleanup Debris/REM	Inventory Date:	10/20/94
Local ID:	IDC 374	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5190

AS-GENERATED EPA CODES

F002, F001, F005, D008, D007, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION This waste consists of blacktop/concrete/dirt/sand.

WASTE STREAM SOURCE Soil and cleanup-debris (IDC 374) were generated during cleanup and construction activities around Rocky Flats. In most cases, construction or demolition activities generated rubble consisting of blacktop, concrete, dirt, sand , and rock. The rubble was packaged in plywood boxes with a fiberboard liner and a polyvinyl chloride (PVC) bag liner or in 55-gallon, DOT Type 7A drups. The waste was generated on a nonroutine basis. Information describing spendid activities generating soil and debris were often unavailable.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

Subpopulation 23B-Container Number D48510

Drum D48510 was generated in Building 374, Room 3803. Room 3803 houses part of the Building 374 Sludge Immobilization Process. The process generated solidified sludge. The waste in drum D48510 is potentially contaminated with process sludge. The sludge consists of RCRA-regulated materials from Decontamination-Precipitation and Neutralization Processes in the Building 374 Liquid Waste Treatment Facility. Building 374 solidified sludge is characterized in the Building 374 Solidified Sludge Backlog Baseline Book.

Building 374 sludge was intermittently contaminated with Resource Conservation and Recovery Act (RCRA) metals (EPA Codes D004-D011). Sampling and analysis of solidified sludge found the waste exceeded toxicity characteristic criteria for chromium (EPA Code D007) and selenium (D010) but at very low levels. It will be assumed that the waste contained in drum D48510 would not exhibit the characteristic of toxicity for chromium and selenium because of dilution by the soil and debris. Toxicity Characteristic Leaching Procedure (TCLP) analysis of the waste under EPA SW-846 is required to prove the waste does not exceed toxicity characteristic criteria.

Contaminated soil and cleanup debris must also carry the listed EPA codes associated with Building 374 solidified sludge. The EPA Codes F001, F002, F003, F005, F006, F007, F009, and F039 are assigned to the waste and it will not be considered as meeting the Land Disposal Restrictions (LDR) treatment standards until sampling and analysis proves otherwise.

Subpopulation 23D-Container Number D75005

WEMS indicates drum D75005 was generated in Building 776. However, the waste was repackaged in Building 776 in April 1988 after a failed drum containing the waste was discovered in the Property Utilization and Disposal storage yard.

The drum contains soil and two sample vials of chromium oxide and aluminum oxide. It will be assumed that the waste contained in drum D75005 exhibits the characteristic of toxicity for chromium (D007) because of chromium oxide contamination. TCLP analysis of the waste under EPA SW-846 is required to prove the waste does not exceed toxicity characteristic criteria.

Subpopulation 23E-Soil and Asphalt from the 750 and 904 Pads Earth Anchor Installation

The installation of earth anchors for the 750 and 904 Pads in 1990 and 1991 generated a large amount of soil and asphalt. The waste was packaged in half-boxes with the generation prefix 788. Some of the half-boxes were rejects but were used because the waste was expected to remain in the reject containers for a short time before remediation activities began. During remediation of the pads, containers of soil and debris were to be emptied and the waste treated. These activities never occurred and the waste is still in the rejected containers.

The soil and debris may have been contaminated with pondcrete and saltcrete waste stored in the pad areas. The work procedure required that EPA codes associated with pondcrete and saltcrete be assigned to the soil and debris. An explanation of codes applicable to pondcrete and saltcrete is provided in the Pondcrete Backlog Baseline Book and the Saltcrete Backlog Baseline Book.

Pondcrete and saltcrete were intermittently contaminated with Resource Conservation and Recovery Act (RCRA) metals (EPA Codes D004-D011). Sampling and analysis of saltcrete found the waste did not exhibit a characteristic for RCRA metals. Sampling and analysis of pondcrete found the waste exceeded toxicity characteristic criteria for cadmium (EPA Code D006) and chromium (EPA Code D007) but at very low levels. It is assumed that the soil and debris from the earth anchor installation does not exhibit the characteristic of toxicity for cadmium and chromium because of dilution by the soil and debris. TCLP analysis of the waste under EPA SW-846 (EPA 1990) is required to prove the waste does not exceed toxicity characteristic criteria.

Contaminated soil and debris from the earth anchor installation must carry the listed EPA codes associated with pondcrete and saltcrete. The EPA Codes F001, F002, F003, F005, F006, F007, F009, and F039 are assigned to the waste and it will not be considered as meeting the LDR treatment standards until sampling and analysis proves otherwise.

Other EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS GENERAAREA: Plutonium process areas. GENOPERATION: Generated in multiple buildings in which aqueous plutonium recovery or plutonium fabrication processes were conducted. RECLASS_CO: Rocky Flats assays wastes to determine waste type instead of relying on process knowledge or historical data. For this reason, the potential for reclassification has not been analyzed. CATION: Not Applicabe. OTHER_CHAR: Not Applicable.

RFP has determined this waste to be LDR based on process knowledge characterization. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55 gallon carbon steel DOT 7A Type A Drum.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W036	Handling:	CH	NMVP #:	N/A	Stream Name:	Firebrick coarse/REM	Inventory Date:	10/20/94
Local ID:	IDC 377,378,373,37	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3119

AS-GENERATED EPA CODES

F003, D011, D009, D010, F001, D005, D004, D008, F002, F005, D007, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Drum / 55-gallon	5.2	0.0	0.0	0.0	0.0	5.2
Totals	5.2	0.0	0.0	0.0	0.0	5.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 5.2 Projected: 0.0 Total: 5.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste form is firebrick that has been crushed and pulverized
WASTE STREAM SOURCE	During maintenance operations, coarse chunks of scarfed firebrick were generated in Building 771. This material was also generated during incinerator stripout operations in Building 371. Spent firebrick was subjected to a mechanical scarfing process to remove plutonium-bearing surface layers. Coarse firebrick consists of chunks of the unpulverized, plutonium-bearing surface layer of the high-density alumina ceramic firebrick material. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Subpopulations IK, IL, IM, IN EPA Codes D004-D011, F001, F002, F003, and F005 were assigned to these subpopulations based on the characterization of incinerator feed materials. Based on the characterization of the feed, alcohols, glycols, halogenated solvents, and metals may have been introduced into the incinerator. Because the specific sources of the incinerator feed cannot be determined at this time, it has been assumed that the process could have accepted any of the combustible, plastic, or filter waste currently contained in the backlog that were generated during the time the incinerator was operational. A report was generated from the Backlog Waste Reassessment database that summarizes the EPA codes assigned to inventory containers of combustibles (IDCs 330 and 336), plastics (337), and Ful-Flo filters (331) generated about the same time that the incinerator was operational. The following EPA codes were contained in the database for these wastes; D004-D011, D018, D019, D028, D029, D035, D038, F001, F002, F003, and F005. It was assumed that the F-listed solvents would have to be applied due to the "derived-from" rule. The codes for the D-listed metals were applied because these metals would be concentrated during incineration. However, it was assumed that the D-listed solvent would be volatilized and driven off in this process. Therefore, these solvents would not be present at levels exceeding Toxicity Characteristic Leaching Procedure (TCLP) limits due to the thermal treatment. This subpopulation is land disposal restricted due to the presence of RCRA metals. It is not land disposal restricted for F-listed solvents because the Best Demonstrated Available Technology (BDAT) (thermal treatment) was used to treat this waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	Net and gross weight data are not available for all container types. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Variability surronding fullness of containers precludes a meaningful computation of density. 2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. The waste is packaged in 55- gallon drums lined with a rigid polyethylene liner. Projected future generation begins in CY2005.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W036	Handling:	CH	NMVP #:	N/A	Stream Name:	Firebrick, pulverized or fines/REM	Inventory Date:	10/29/94
Local ID:	IDC 377,378,373,37	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3119

AS-GENERATED EPA CODES

F003, D011, D009, D010, F001, D005, D004, D008, F002, F005, D007, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.1	0.0	0.0	0.0	0.0	0.1
Drum / 55-gallon	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.7	0.0	0.0	0.0	0.0	0.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.7 Projected: 0.0 Total: 0.7

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste form is firebrick that has been crushed and pulverized.
WASTE STREAM SOURCE	During maintenance operations, pulverized scarfed firebrick was generated in Building 771. This material was also generated during incinerator stripout operations in Building 371. Spent firebrick was subjected to a mechanical scarfing process to remove plutonium-bearing surface layers. Pulverized firebrick consists of chunks granular, fine, and very fine, plutonium-bearing surface layer of the high-density alumina ceramic firebrick material. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Subpopulations IK, IL, IM, IN EPA Codes D004-D011, F001, F002, F003, and F005 were assigned to these subpopulations based on the characterization of incinerator feed materials. Based on the characterization of the feed, alcohols, glycols, halogenated solvents, and metals may have been introduced into the incinerator. Because the specific sources of the incinerator feed cannot be determined at this time, it has been assumed that the process could have accepted any of the combustible, plastic, or filter waste currently contained in the backlog that were generated during the time the incinerator was operational. A report was generated from the Backlog Waste Reassessment database that summarizes the EPA codes assigned to inventory containers of combustibles (IDCs 330 and 336), plastics (337), and Ful-Flo filters (331) generated about the same time that the incinerator was operational. The following EPA codes were contained in the database for these wastes; D004-D011, D018, D019, D028, D029, D035, D038, F001, F002, F003, and F005. It was assumed that the F-listed solvents would have to be applied due to the "derived-from" rule. The codes for the D-listed metals were applied because these metals would be concentrated during incineration. However, it was assumed that the D-listed solvent would be volatilized and driven off in this process. Therefore, these solvents would not be present at levels exceeding Toxicity Characteristic Leaching Procedure (TCLP) limits due to the thermal treatment. This subpopulation is land disposal restricted due to the presence of RCRA metals. It is not land disposal restricted for F-listed solvents because the Best Demonstrated Available Technology (BDAT) (thermal treatment) was used to treat this waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	Net and gross weight data are not available for all container types. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Variability surronding fullness of containers precludes a meaningful computation of density. 2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. The waste is packaged in 55- gallon drums lined with a rigid polyethylene liner.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W040	Handling:	CH	NMVP #:	N/A	Stream Name:	Incinerator ash/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3111

AS-GENERATED EPA CODES

D011, D010, D009, D006, D004, F005, F003, D007, D008, D005, F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Drum / 55-gallon	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste stream is a fire particulate ash. It could also be chunky material from moisture.
WASTE STREAM SOURCE	This waste form consists of waste generated by the Residue Recovery Incinerator system in Building 771. The function of the Residue Recovery Incinerator was to reduce volume and destroy volatile constituents prior to plutonium recovery operations for combustible wastes from production processes (primarily IDCs 330, 331, 336, and 337). Waste feed was hand-sorted to segregate combustibles. Noncombustibles such as metal and glass were segregated and removed from the process. The by-products of this process included ash (IDCs 419, 420, 421, and 428). Item Description Code 419, Unpulverized Incinerator Ash Unpulverized incinerator ash was generated as an intermediate product during routine operation of the incinerator in Building 771. This material was also generated during incinerator stripout operations in Building 371. The unpulverized ash consists of a mixture of coarse, granular, fine, and very fine particulates. The ash contains miscellaneous tramp metal, bits of unburned feed material, and carbon from the incomplete oxidation of feed material. The coarse materials consist of fused ash, clinkers, or unburned materials that fell through the stationary grate of the incinerator. IDC 419 is mixed residue only. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	One subpopulation consists of IDC 425 materials characterized under Backlog Waste Reassessment Task 7, Event 20, but only includes the ash generated by the Full-Scale unit. EPA code D007 was assigned to the subpopulation. The characterization rationale for this subpopulation can be found in the report prepared for this event. Another subpopulation consists of IDC 425 materials characterized under Backlog Waste Reassessment Task 7, Event 20, but only includes ash generated by the Pilot-Scale unit. EPA codes D007, F003, and F005 were assigned to the subpopulation. The characterization rationale for this subpopulation can be found in the report prepared for this event. The last subpopulation consists of IDC 420 backlog containers. EPA codes D004-D011, F001, F002, F003, and F005 were assigned to this subpopulation based on the characterization of incinerator feed materials (alcohols, glycols, halogenated solvents, and metals). However, this subpopulation contained no free liquids and thus D002 is not applied. Subpopulation 1D consists of IDC 425 materials characterized under Task 7, Event 20 but only includes the ash generated by the Pilot-Scale Unit. EPA Codes D007, F003, and F005 were assigned to the subpopulation. Rationale for this subpopulation can be found in the report prepared for this event. Subpopulations 1F, 1G, 1P, and 1Q, consist of IDCs 420, 421, 423, 371, 373, 377, 378, 422, 428, and 419, respectively, for backlog inventory containers. EPA Codes D004-D011, F001, F002, F003, and F005 were assigned to this subpopulation. Limited analytical data indicate that this waste form exceeds the LDR treatment standard for chromium. These data must complete data validation. The results to date are discussed in the Waste Characterization Report, Incinerator Ash, Item Description Codes 420 and 425.
MANAGEMENT COMMENTS	N/A

ACCEPTANCE COMMENTS

RFP has determined that incinerator ash is LDR waste based on available process knowledge. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. FBI ash was packaged in 55-gallon drums lined with a rigid polyethylene liner and one bag liner.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W040	Handling:	CH	NMVP #:	N/A	Stream Name:	Incinerator ash/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3111

AS-GENERATED EPA CODES

D011, D010, D009, D006, D004, F005, F003, D007, D008, D005, F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

		TRUCON CODE	FINAL FORM RADIONUCLIDES
Category:	Defense TRU Waste	N/A	N/A
Residues:	Yes		
Asbestos:	No		
PCBs:	No		
Source:	Pollution Control or Waste Treatment Process		

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.02	0.0	0.0	0.0	0.0	0.02
Drum / 10-gallon	0.04	0.0	0.0	0.0	0.0	0.04
Drum / 55-gallon	161.8	0.0	0.0	0.0	0.0	161.8
Totals	161.9	0.0	0.0	0.0	0.0	161.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form:	Stored:	161.9	Projected:	0.0	Total:	161.9

Final Waste Form:	Stored:	0.0	Projected:	0.0	Total:	0.0

WASTE STREAM DESCRIPTION This waste stream is a fire particulate ash. It could also be chunky material from moisture.

WASTE STREAM SOURCE

This waste form consists of waste generated by the Residue Recovery Incinerator system in Building 771.

The function of the Residue Recovery Incinerator was to reduce volume and destroy volatile constituents prior to plutonium recovery operations for combustible wastes from production processes (primarily IDCs 330, 331, 336, and 337). Waste feed was hand-sorted to segregate combustibles. Noncombustibles such as metal and glass were segregated and removed from the process. The by-products of this process included ash (IDCs 419, 420, 421, and 428).

The FBIs in Building 776 were developed as pilot operations. Their test function was to develop new technology to reduce volume and destroy volatile constituents prior to plutonium recovery operations. The only incinerator to generate backlog waste covered by this waste form was the Full-Scale Unit. The first runs of this incinerator (1978 to 1981) used newspaper, Building 776 low-level waste (LLW), combustible waste, kerosene, garage oil, and grease as test materials. The tests were conducted with methanol, diesel products, and nonradioactive surrogate combustibles (shredded coveralls, leather gloves, rolls of polyvinyl chloride [PVC] plastic, wood, and paper). The by-product of this process was FBI ash (IDC 425).

Item Description Code 420, Pulverized Incinerator Ash

Pulverized incinerator ash was generated as an intermediate product during routine operation of the incinerator in Building 771. This material was also generated during incinerator stripout operations in Building 371. The pulverized ash consists of a mixture of coarse, granular, fine, and very fine particulates that have been ground by the ball mill. The ash contains miscellaneous tramp metal, bits of unburned feed material, and carbon from the incomplete oxidation of feed material.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

One subpopulation consists of IDC 425 materials characterized under Backlog Waste Reassessment Task 7, Event 20, but only includes the ash generated by the Full-Scale unit. EPA code D007 was assigned to the subpopulation. The characterization rationale for this subpopulation can be found in the report prepared for this event.

Another subpopulation consists of IDC 425 materials characterized under Backlog Waste Reassessment Task 7, Event 20, but only includes ash generated by the Pilot-Scale unit. EPA codes D007, F003, and F005 were assigned to the subpopulation. The characterization rationale for this subpopulation can be found in the report prepared for this event.

The last subpopulation consists of IDC 420 backlog containers. EPA codes D004-D011, F001, F002, F003, and F005 were assigned to this subpopulation based on the characterization of incinerator feed materials (alcohols, glycols, halogenated solvents, and metals). However, this subpopulation contained no free liquids and thus D002 is not applied.

Subpopulation 1D consists of IDC 425 materials characterized under Task 7, Event 20 but only includes the ash generated by the Pilot-Scale Unit. EPA Codes D007, F003, and F005 were assigned to the subpopulation. Rationale for this subpopulation can be found in the report prepared for this event.

Subpopulations 1F, 1G, 1P, and 1Q, consist of IDCs 420, 421, 423, 371, 373, 377, 378, 422, 428, and 419, respectively, for backlog inventory containers. EPA Codes D004-D011, F001, F002, F003, and F005 were assigned to this subpopulation.

Limited analytical data indicate that this waste form exceeds the LDR treatment standard for chromium. These data must complete data validation. The results to date are discussed in the Waste Characterization Report, Incinerator Ash, Item Description Codes 420 and 425.

MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP has determined that incinerator ash is LDR waste based on available process knowledge. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. FBI ash was packaged in 55-gallon drums lined with a rigid polyethylene liner and one bag liner.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W040	Handling:	CH	NMVP #:	N/A	Stream Name:	Incinerator ash/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3111

AS-GENERATED EPA CODES

D011, D010, D009, D006, D004, F005, F003, D007, D008, D005, F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Drum / 10-gallon	0.04	0.0	0.0	0.0	0.0	0.04
drum / 55-gallon	68.0	0.0	0.0	0.0	0.0	68.0
Totals	68.1	0.0	0.0	0.0	0.0	68.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 68.1 Projected: 0.0 Total: 68.1

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

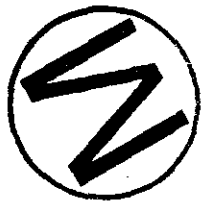
WASTE STREAM DESCRIPTION	This waste stream is a fire particulate ash. It could also be chunky material from moisture.
WASTE STREAM SOURCE	This waste form consists of waste generated by the Residue Recovery Incinerator system in Building 771. The function of the Residue Recovery Incinerator was to reduce volume and destroy volatile constituents prior to plutonium recovery operations for combustible wastes from production processes (primarily IDCs 330, 331, 336, and 337). Waste feed was hand-sorted to segregate combustibles. Noncombustibles such as metal and glass were segregated and removed from the process. The by-products of this process included ash (IDCs 419, 420, 421, and 428). Item Description Code 421, Ash Heel During dissolution of incinerator ash (IDC 419 and 420), undissolved incinerator ash heel was generated in Building 771. Incinerator ash was subjected to a nitric acid dissolution process. The material that did not dissolve was filtered, dried, assayed, and set aside for additional processing. IDC 421 is mixed residue only. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	One subpopulation consists of IDC 425 materials characterized under Backlog Waste Reassessment Task 7, Event 20, but only includes the ash generated by the Full-Scale unit. EPA code D007 was assigned to the subpopulation. The characterization rationale for this subpopulation can be found in the report prepared for this event. Another subpopulation consists of IDC 425 materials characterized under Backlog Waste Reassessment Task 7, Event 20, but only includes ash generated by the Pilot-Scale unit. EPA codes D007, F003, and F005 were assigned to the subpopulation. The characterization rationale for this subpopulation can be found in the report prepared for this event. The last subpopulation consists of IDC 420 backlog containers. EPA codes D004-D011, F001, F002, F003, and F005 were assigned to this subpopulation based on the characterization of incinerator feed materials (alcohols, glycols, halogenated solvents, and metals). However, this subpopulation contained no free liquids and thus D002 is not applied. Subpopulation 1D consists of IDC 425 materials characterized under Task 7, Event 20 but only includes the ash generated by the Pilot-Scale Unit. EPA Codes D007, F003, and F005 were assigned to the subpopulation. Rationale for this subpopulation can be found in the report prepared for this event. Subpopulations 1F, 1G, 1P, and 1Q, consist of IDCs 420, 421, 423, 371, 373, 377, 378, 422, 428, and 419, respectively, for backlog inventory containers. EPA Codes D004-D011, F001, F002, F003, and F005 were assigned to this subpopulation. Limited analytical data indicate that this waste form exceeds the LDR treatment standard for chromium. These data must complete data validation. The results to date are discussed in the Waste Characterization Report, Incinerator Ash, Item Description Codes 420 and 425.
MANAGEMENT COMMENTS	N/A

ACCEPTANCE COMMENTS

RFP has determined that incinerator ash is LDR waste based on available process knowledge. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. FBI ash was packaged in 55-gallon drums lined with a rigid polyethylene liner and one bag liner.

FINAL FORM COMMENTS



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W076	Handling:	CH	NMVP #:	N/A	Stream Name:	Process Residues/TRM
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics

Inventory Date: 10/20/94

Waste Matrix Code: S3119

AS-GENERATED EPA CODES

D006, D004, F005, F003, F002, F001, D010, D008, D009, D007, D005, D011

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

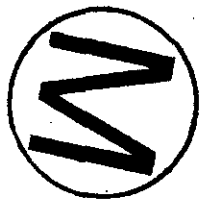
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	3.5	0.0	0.0	0.0	0.0	3.5
Totals	3.5	0.0	0.0	0.0	0.0	3.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 3.5 Projected: 0.0 Total: 3.5

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0



WASTE STREAM DESCRIPTION

This waste form contains some ash, and it also is solid chunks and fine particulate material. Some liquids may be present.

IDC 092 - Impure Fluoride Heel
IDC 290 - Filter Sludge
IDC 332 - Oily sludge
IDC 340 - sludge from size reduction area
IDC 422 - Must be processed into IDC 806 for disposal.
IDC 423 - Must be processed into IDC 806 for disposal.
IDC 069 - Grease Oxide (green cake)
IDC 080 - Pu Tetrafluoride
IDC 090 -
IDC 091 - Non-Spec Fluoride
IDC 097 - Impure Fluoride in small cans -- Building 371
IDC 099 - Grease Fluoride

WASTE STREAM SOURCE

Incinerator soot (IDC 422) was generated as an intermediate product during routine filter change operations of the incinerator plenum in Building 771. This material was also generated during incinerator stripout operations in Building 371. The soot consists of a fine and very fine particulate fly ash that was removed from the incinerator off-gas treatment system. The soot generally contained a higher concentration of carbon and fine particulate oxidation of some feed materials. RE: Section 8.2.11 RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt%, but has no supporting data.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

IDC 069: D007 was identified based on spepcific process knowledge. Chromium contamination of plutonium greencake is possible from the nitric acid leaching stainless-steel equipment during calcination. Also, small particles of the stainless steel wear plates are contained in the grease oxide. EPA Code D007 is assigned based on this information.

IDC 090 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in plutonium tetrafluoride have been detected. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the Toxicity Characteristic Leaching Procedure (TCLP) extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 091 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 091, impure fluoride, would have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the glovebox and equipment. In addition, inside surface corrosion of a stainless-steel container of IDC 091 was recently discovered. The corrosion of stainless steel removes chromium from the container and contaminates the plutonium fluoride. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 092 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 092, impure fluoride heel, would have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the dissolution process. Additional chromium could be added from the leaching of stainless-steel equipment by nitric acid. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 097 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in ICD 090 plutonium tetrafluroide have been detected. IDC 097 is assigend based on this inforamtiohn. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 099 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 099, grease fluoride, is assumed to have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the glovebox and equipment. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

Subpopulation 33F was identified based on specific process knowledge. The only compounds associated with the sodium fluoride pellets are sodium fluoride and plutonium hexafluoride. These compounds are not listed or characteristic RCRA compounds. Any RCRA-metal contamination of the plutonium feed stream remained in the product or fluid-bed material and did not contaminate the sodium fluoride pellets.

Waste Characterization Regulatory Discussion and Conclusion

The waste form plutonium fluoride and fluoride heel was characterized in conformance with WASTRENS's internal backlog waste reassessment characterization procedures, which are based on 6 CCR 1007-3, 40 CFR 260-280, and "U.S. DOE Definitions

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manges all of its mixed waste as LDR storage prohibited, independent of its generation date.

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

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W076	Handling:	CH	NMVP #:	N/A	Stream Name:	Process Residues/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3119

AS-GENERATED EPA CODES

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

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	0.0
Totals	.0.0	0.0	0.0	0.0	0.0	0.0

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

This waste form contains some ash, and it also is solid chunks and fine particulate material. Some liquids may be present.

IDC 092 - Impure Fluoride Heel
IDC 290 - Filter Sludge
IDC 332 - Oily sludge
IDC 340 - sludge from size reduction area
IDC 422 - Must be processed into IDC 806 for disposal.
IDC 423 - Must be processed into IDC 806 for disposal.
IDC 089 - Grease Oxide (green cake)
IDC 080 - Pu Tetrafluoride
IDC 090 -
IDC 091 - Non-Spec Fluoride
IDC 097 - Impure Fluoride in small cans -- Building 371
IDC 099 - Grease Fluoride

WASTE STREAM SOURCE

After incinerator soot (IDC 422) generated in Building 771 was dissoved in acid for plutonium recovery, the solution was filtered and dried. The soot heel that remained (IDC 423) was assayed and set aside for additional processing. RE: Section 8.2.11 RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt%, but has no supporting data.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

IDC 089: D007 was identifed based on spepcific process knowledge. Chromium contamination of plutonium greencake is possible from the nitric acid leaching stainless-steel equipment during calcination. Also, small particles of the stainless steel wear plates are contained in the grease oxide. EPA Code D007 is assigned based on this information.

IDC 090 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in plutonium tetrafluoride have been detected. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the Toxicity Characteristic Leaching Procedure (TCLP) extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 091 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 091, impure fluoride, would have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the glovebox and equipment. In addition, inside surface corrosion of a stainless-steel container of IDC 091 was recently discovered. The corrosion of stainless steel removes chromium from the container and contaminates the plutonium fluoride. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 092 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) in IDC 090 plutonium tetrafluoride have been detected. IDC 092, impure fluoride heel, would have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the dissolution process. Additional chromium could be added from the leaching of stainless-steel equipment by nitric acid. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 097 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm

(total) In ICD 090 plutonium tetrafluroide have been detected. IDC 097 is assigend based on this inforamtiohn. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

IDC 099 was characterized based on specific process knowledge and plutonium tetrafluoride production analysis. Chromium concentrations of greater than 100 ppm (total) In IDC 090 plutonium tetrafluoride have been detected. IDC 099, grease fluoride, is assumed to have at least the same level of chromium contamination of IDC 090 because it contains additional contamination from the glovebox and equipment. EPA Code D007 is assigned based on this information. The total chromium contamination was divided by 20 to account for the dilution during the TCLP extraction. Assuming all of the chromium would leach during TCLP, a total concentration of 100 ppm or greater would convert to a TCLP concentration of at least 5 ppm, which would be RCRA characteristic.

Subpopulation 33F was identified based on specific process knowledge. The only compounds associated with the sodium fluoride pellets are sodium fluoride and plutonium hexafluoride. These compounds are not listed or characteristic RCRA compounds. Any RCRA-metal contamination of the plutonium feed stream remained in the product or fluid-bed material and did not contaminate the sodium fluoride pellets.

Waste Characterization Regulatory Discussion and Conclusion

The waste form plutonium fluoride and fluoride heel was characterized in conformance with WASTRENS's internal backlog waste reassessment characterization procedures, which are based on 6 CCR 1007-3, 40 CFR 260-280, and "U.S. DOE Definitions

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manges all of its mixed waste as LDR storage prohibited, independent of its generation date.

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

FINAL FORM COMMENTS The volumes and the radionuclide concentrations developed in the profile were based on processing plutonium residues for actinide separation. RFETS has modified this processing plan. Residues will be processed to meet WIPP WAC, TRAMPAC, and safe storage conditions. The modified volumes and radionuclide concentrations are reflected in the WIPP level roll-ups.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W040	Handling:	CH	NMVP #:	N/A	Stream Name:	Incinerator ash/TRM	Inventory Date:	
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3111

AS-GENERATED EPA CODES

D011, D010, D009, D006, D004, F005, F003, D007, D008, D005, F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.02	0.0	0.0	0.0	0.0	0.02
Drum / 55-gallon	0.0	0.0	0.0	0.0	0.0	0.0
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.02 Projected: 0.0 Total: 0.02

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste stream is a fire particulate ash. It could also be chunky material from moisture.
WASTE STREAM SOURCE	This waste form consists of waste generated by the Residue Recovery Incinerator system in Building 771. The function of the Residue Recovery Incinerator was to reduce volume and destroy volatile constituents prior to plutonium recovery operations for combustible wastes from production processes (primarily IDCs 330, 331, 336, and 337). Waste feed was hand-sorted to segregate combustibles. Noncombustibles such as metal and glass were segregated and removed from the process. The by-products of this process included ash (IDCs 419, 420, 421, and 428). Item Description Code 428, Incinerator Ash After incinerator ash (IDC 420) was generated in Building 771, this material was prepared, assayed, and packaged in Building 371, for transportation to an alternate DOE site for plutonium recovery processing. This material does not differ from incinerator ash IDC 420. IDC 428 is mixed residue only. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	One subpopulation consists of IDC 425 materials characterized under Backlog Waste Reassessment Task 7, Event 20, but only includes the ash generated by the Full-Scale unit. EPA code D007 was assigned to the subpopulation. The characterization rationale for this subpopulation can be found in the report prepared for this event. Another subpopulation consists of IDC 425 materials characterized under Backlog Waste Reassessment Task 7, Event 20, but only includes ash generated by the Pilot-Scale unit. EPA codes D007, F003, and F005 were assigned to the subpopulation. The characterization rationale for this subpopulation can be found in the report prepared for this event. The last subpopulation consists of IDC 420 backlog containers. EPA codes D004-D011, F001, F002, F003, and F005 were assigned to this subpopulation based on the characterization of incinerator feed materials (alcohols, glycols, halogenated solvents, and metals). However, this subpopulation contained no free liquids and thus D002 is not applied. Subpopulation 1D consists of IDC 425 materials characterized under Task 7, Event 20 but only includes the ash generated by the Pilot-Scale Unit. EPA Codes D007, F003, and F005 were assigned to the subpopulation. Rationale for this subpopulation can be found in the report prepared for this event. Subpopulations 1F, 1G, 1P, and 1Q, consist of IDCs 420, 421, 423, 371, 373, 377, 378, 422, 426, and 419, respectively, for backlog inventory containers. EPA Codes D004-D011, F001, F002, F003, and F005 were assigned to this subpopulation. Limited analytical data indicate that this waste form exceeds the LDR treatment standard for chromium. These data must complete data validation. The results to date are discussed in the Waste Characterization Report, Incinerator Ash, Item Description Codes 420 and 425.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP has determined that incinerator ash is LDR waste based on available process knowledge. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. FBI ash was packaged in 55-gallon drums lined with a rigid polyethylene liner and one bag liner.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W091	Handling:	CH	NMVP #:	N/A	Stream Name:	Organics Discard Level/TRM	Inventory Date:	10/24/94
Local ID:	0533, 0535, N/A	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Organics	Waste Matrix Code:	

AS-GENERATED EPA CODES

F003, F002, D022, D007, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

		TRUCON CODE	FINAL FORM RADIONUCLIDES
Category:	Defense TRU Waste	N/A	N/A
Residues:	Yes		
Asbestos:	No		
PCBs:	No		
Source:	Facility/Equipment Operation and Maintenance Waste		

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

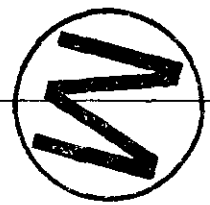
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bottle / 4-Liter	0.02	0.0	0.0	0.0	0.0	0.02
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.02 Projected: 0.0 Total: 0.02

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0



WASTE STREAM DESCRIPTION	This liquid waste stream includes machine oils and coolants contaminated with organic solvents.
WASTE STREAM SOURCE	Item Description Code 533 This IDC includes principally machine oils and coolants contaminated with organic solvents used in cleaning and, in some cases, contaminated with RCRA-regulated metals. According to Waste Stream Identification and Characterization (WSIC) information, Building 779 used acetone, trichloroethane, and methylene chloride in its Machine and Nuclear Joining processes. WSIC information also indicated that Building 881 used, or generated as sample waste, acetone, carbon tetrachloride, chloroform, ethanol, methanol, hexane, isopropanol, toluene, ethylbenzene, xylene, methylene chloride, 1,2-dichloroethane, and 1,1,2-trichloro-1,2,2-trifluoroethane in various analytical processes. Also, machining and manufacturing Research and Development operations, and possibly model construction operations produced oils contaminated with cadmium, chromium, lead, and selenium. WSIC information stated that Building 883 used chloroform, trichloroethane, toluene, xylene, and 1,1,2-trichloro-1,2,2-trifluoroethane in its metallurgical operations. Building 444 used acetone, 1,2-dichloroethene, trichloroethane, toluene, and ethylbenzene in its plating operations; acetone, 1,1,2-trichloro-1,2,2-trichfluoroethane, methylene chloride, and toluene in its fabrication operations; and trichloroethane in its tool and gauge operations. Where analytical data for this IDC exist, most of these organic solvents usually were not detected.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Process knowledge based on waste generation and general knowledge of waste type or source.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W091	Handling:	CH	NMVP #:	N/A	Stream Name:	organics Discard Level/TRM	Inventory Date:	10/24/94
Local ID:	0533, 0535, N/A	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Organics	Waste Matrix Code:	

AS-GENERATED EPA CODES

F005, F003, F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bottle / 4-Liter	0.02	0.0	0.0	0.0	0.0	0.02
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.02 Projected: 0.0 Total: 0.02

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This liquid waste stream includes machine oils and coolants contaminated with organic solvents.
WASTE STREAM SOURCE	Item Description Code 535 This IDC includes laboratory quantities of RCRA-regulated organic solvents. The backlog inventory of this IDC was generated in Building 881 in various analytical laboratories. According to WSIC information, the solvents include toluene, 1,1,2-trichloro-1,2,2-trifluoroethane, xylene, acetone, carbon tetrachloride, chloroform, ethanol, methanol, hexane, isopropanol, ethylbenzene, methylene chloride, and 1,2-dichloroethane. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Process knowledge based on waste generation and general knowledge of waste type or source.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W068	Handling:	CH	NMVP #:	N/A	Stream Name:	Particulate Sludge/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	ZZ	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3129

AS-GENERATED EPA CODES

F002, F005, F001, D011, D010, D009, D008, D007, D006, D005, D004, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.77E+01
Pu-240	1.16E+00
Pu-239	5.08E+00
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

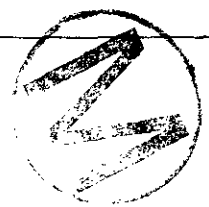
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	17.3	7.2	5.1	29.9	13.8	73.3
Totals	17.3	7.2	5.1	29.9	13.8	73.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 17.3 Projected: 57.0 Total: 74.3

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0



WASTE STREAM DESCRIPTION This waste consists of sludge type material. It is a semi-fluid material. Some of it has had cement added to it to try to solidify it.

WASTE STREAM SOURCE IDC 292 was intended for incinerator sludge from the recovery incinerator in Building 771. IDC 292 materials were reassessed under Waste Form 1, Incinerator Ash. However, there is one box WEMS incorrectly assigned this IDC. According to the waste-box log sheet dated October 14, 1987, the box contains Electrochemical Milling Sludge generated in Building 881. This operation generated sludge from the milling of various metals including stainless steel. It was indicated that no cyanides were used in the ECM operations in Building 881. The IDC for this box should be changed to 299.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphateds >1 wt%, but has no supporting data.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS Subpopulation 46GA includes 15 containers generated in the Building 371 analytical labs. The WSRIC book for the building includes no IDC 299 waste streams. Until shortly after September 1993, the WSRIC book for Building 371 included a process output numbered 371-4-18 (Low-level Soil Sludges) that was assigned EPA Codes D002-D011, D018, D019, D035, D040, F001, F002, F005-F007, and F009. The current WSRIC book for Building 371 includes a new stream, 371-4-22 (Low-Level Soil Sludges), that replaced number 371-4-18, and that is characterized only as characteristic waste with EPA Waste Codes D004-D011. The WEMS characterization for this group is D007. It is assumed, therefore, that since the containers in this group were generated from 1984 to 1992, the materials are best assigned the same waste codes as the 371-4-18 stream cited above, with the exception of the plating waste codes (F006, F007, and F009), and the reactivity code (D003), because it is known that no plating waste was generated in Building 371 labs and that no reactive wastes were generated. Most likely, all 15 containers do not contain wastes that are assigned all of the codes. It is also possible that some of the remaining waste codes can be removed based on EPA guidance concerning the sample exclusion cited in Section 261.4 (d). However, it could not be determined from personnel in Building 371 whether waste stream 371-4-18 was characterized as toxic for benzene (D018), carbon tetrachloride (D019), methyl ethyl ketone (D035), and trichloroethylene (D040) based on the double listing policy previously used or if the codes were assigned because the waste actually exhibits the characteristic of toxicity for those organics. Nor could it be confirmed whether the F-listed solvent codes were assigned because the lab felt it was generating listed solvent waste or if the codes were assigned because the lab was analyzing the F-listed solvent waste. Therefore, until these issues can be resolved, this subpopulation is characterized as hazardous and assigned EPA Waste Codes D002, D004-D011, D018, D019, D035, D040, F002, and F005. These containers should be analyzed unless data exist that can confirm or refute this characterization. The containers are all LDR regulated.

Subpopulation 46GB includes 11 containers generated in miscellaneous residue processing. All drums are characterized as hazardous and assigned EPA Waste Code D007 (chromium) in WEMS. The WSRIC book dated September 1993 includes process outputs numbered 771-12-14, 771-12-16, and 771-27-7, sludge dissolution heel, pipe sludge, and filter plenum sludge, respectively. These WSRIC outputs were generated by the Miscellaneous Residue Processing and Plenums processes. The sludges generated by residue processing are characterized as D007 wastes because the corrosive liquids the sludges came from leached chromium from the insides of stainless-steel transfer lines. The plenum sludge is characterized as nonhazardous. According to NMC, these streams were being generated during the period from 1984 to 1989, which would coincide with dates of generation for Subpopulation GB. According to NMC, the drums of IDC 299 were most likely generated by the residue processing operation. Therefore, the group is characterized as hazardous and assigned waste code D007 until analytical data are collected that prove otherwise. The containers are also LDR regulated.

Subpopulation 46DA includes one drum generated in Building 371, according to WEMS. WEMS also indicates that the drum contains D007 waste. This drum contains grit from grit blasting of stainless steel and could contain chromium. This information could not be verified or refuted at the time this document was produced. Therefore, the drum is characterized as hazardous and assigned EPA Waste Code D007 until proven otherwise. The drum is also prohibited from land disposal.

Subpopulation 46DB includes nine drums generated in Building 777 by the Machining and Coating processes. WEMS shows these drums to be nonhazardous waste. However, since it is likely that lead shielding was the primary metal that was grit blasted, it is also unlikely that the grit waste is contaminated with lead. Therefore, this group is characterized as hazardous and assigned EPA Waste Code D008 until proven otherwise. The materials are also prohibited from land disposal.

Subpopulation 46EB includes one drum generated in the Size Reduction Vault in Building 776. Since neither the source or contents of the cemented sludge in this drum could be determined, the WEMS characterization cannot be refuted. Therefore, this drum is characterized as D008 and is land disposal restricted. However, it is

recommended that the material be sampled and analyzed to confirm the characterization.

Subpopulation 1B consists of approximately 85, IDC 292 incinerator sludge containers. EPA Codes D002, D004-D011, F001, F002, F003, and F005 were assigned to this subpopulation based on the characterization of incinerator feed materials. Based on the characterization of the feed, alcohols, glycols, halogenated solvents, and metals may have been introduced into the incinerator. Because the specific sources of the incinerator feed cannot be determined at this time, it has been assumed that the process could have accepted any of the combustible, plastic, or filter wastes currently contained in the inventory that were generated during the time the incinerator was operational.

A report was generated from the Backlog Waste Reassessment database that summarize the EPA codes assigned to inventory containers of combustibles (IDCs 330 and 336), plastics (337), and Ful-Flo filters (331) generated about the same time that the incinerator was operational. The following EPA codes were contained in the database for these wastes: D004-D011, D018, D019, D028, D029, D035, D038, F001, F002, F003, and F005. It was assumed that the F-listed solvents would have to be applied due to the "derived-from" rule. The codes for the D-listed metals were applied because these metals would be concentrated during incineration. However, it was assumed that the D-listed solvent would be volatilized and driven off in this process. Therefore, these solvents would not be present at levels exceeding Toxicity Characteristic Leaching Procedure (TCLP) limits due to the thermal treatment. This subpopulation is land disposal restricted due to the presence of RCRA metals. It is not land disposal restricted for F-listed solvents because the Best Demonstrated Available Technology (BDAT) (thermal treatment) was used to treat this waste. The EPA Code D002 has been applied, because any liquid in the waste matrix will exceed a pH of 12.5 due to the KOH. Additionally, process description and generator discussion indicates that there was no absorbent added to containers that would have absorbed the remaining liquids.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: The waste is packaged in 55-gallon drums with multiple bag liners. These are typically smaller containers within the drums.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W068	Handling:	CH	NMVP #:	N/A	Stream Name:	Particulate Sludge/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	ZZ	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3129

AS-GENERATED EPA CODES

F002, F005, D040, D035, D019, D018, D011, D010, D009, D008, D007, D006, D005, D004, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.77E+01
Pu-240	1.16E+00
Pu-239	5.08E+00
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.8	0.3	0.3	1.5	0.7	3.5
Totals	0.8	0.3	0.3	1.5	0.7	3.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.8 Projected: 2.7 Total: 3.5

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

This waste consists of sludge type material. It is a semi-fluid material. Some of it has had cement added to it to try to solidify it.

WASTE STREAM SOURCE

This IDC has been used for sludges that were not accurately categorized as IDC 290 or 340 and could have been generated in any plutonium processing building. However, the backlog miscellaneous sludge was generated in Building 771 during the processing of residues, in Building 371 in the analytical laboratory, and in Building 883 by the Rolling Process. Process pipe sludge, sludge dissolution heel, and filter plenum sludge from Building 771 were processed through nitric acid dissolution and sparging. Soil and sludge samples from around the site were analyzed in Building 371, and the waste was stored for processing. IDC 299 materials generated in Building 883 include quench sludge and uranium oxide sludge from the rolling Process. This group also includes one container of electrochemical milling sludge generated in Building 881 in October 1987. The container is assigned IDC 292.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

Subpopulation 46GA includes 15 containers generated in the Building 371 analytical labs. The WSRIC book for the building includes no IDC 299 waste streams. Until shortly after September 1993, the WSRIC book for Building 371 included a process output numbered 371-4-18 (Low-level Soil Sludges) that was assigned EPA Codes D002-D011, D018, D019, D035, D040, F001, F002, F005-F007, and F009. The current WSRIC book for Building 371 includes a new stream, 371-4-22 (Low-Level Soil Sludges), that replaced number 371-4-18, and that is characterized only as characteristic waste with EPA Waste Codes D004-D011. The WEMS characterization for this group is D007. It is assumed, therefore, that since the containers in this group were generated from 1984 to 1992, the materials are best assigned the same waste codes as the 371-4-18 stream cited above, with the exception of the plating waste codes (F006, F007, and F009), and the reactivity code (D003), because it is known that no plating waste was generated in Building 371 labs and that no reactive wastes were generated. Most likely, all 15 containers do not contain wastes that are assigned all of the codes. It is also possible that some of the remaining waste codes can be removed based on EPA guidance concerning the sample exclusion cited in Section 261.4 (d). However, it could not be determined from personnel in Building 371 whether waste stream 371-4-18 was characterized as toxic for benzene (D018), carbon tetrachloride (D019), methyl ethyl ketone (D035), and trichloroethylene (D040) based on the double listing policy previously used or if the codes were assigned because the waste actually exhibits the characteristic of toxicity for those organics. Nor could it be confirmed whether the F-listed solvent codes were assigned because the lab felt it was generating listed solvent waste or if the codes were assigned because the lab was analyzing the F-listed solvent waste. Therefore, until these issues can be resolved, this subpopulation is characterized as hazardous and assigned EPA Waste Codes D002, D004-D011, D018, D019, D035, D040, F002, and F005. These containers should be analyzed unless data exist that can confirm or refute this characterization. The containers are all LDR regulated.

Subpopulation 46GB includes 11 containers generated in miscellaneous residue processing. All drums are characterized as hazardous and assigned EPA Waste Code D007 (chromium) in WEMS. The WSRIC book dated September 1993 includes process outputs numbered 771-12-14, 771-12-16, and 771-27-7, sludge dissolution heel, pipe sludge, and filter plenum sludge, respectively. These WSRIC outputs were generated by the Miscellaneous Residue Processing and Plenums processes. The sludges generated by residue processing are characterized as D007 wastes because the corrosive liquids the sludges came from leached chromium from the insides of stainless-steel transfer lines. The plenum sludge is characterized as nonhazardous. According to NMC, these streams were being generated during the period from 1984 to 1989, which would coincide with dates of generation for Subpopulation GB. According to NMC, the drums of IDC 299 were most likely generated by the residue processing operation. Therefore, the group is characterized as hazardous and assigned waste code D007 until analytical data are collected that prove otherwise. The containers are also LDR regulated.

Subpopulation 46DA includes one drum generated in Building 371, according to WEMS. WEMS also indicates that the drum contains D007 waste. This drum contains grit from grit blasting of stainless steel and could contain chromium. This information could not be verified or refuted at the time this document was produced. Therefore, the drum is characterized as hazardous and assigned EPA Waste Code D007 until proven otherwise. The drum is also prohibited from land disposal.

Subpopulation 46DB includes nine drums generated in Building 777 by the Machining and Coating processes. WEMS shows these drums to be nonhazardous waste. However, since it is likely that lead shielding was the primary metal that was grit blasted, it is also unlikely that the grit waste is contaminated with lead. Therefore, this group is characterized as hazardous and assigned EPA Waste Code D008 until proven otherwise. The materials are also prohibited from land disposal.

Subpopulation 46EB includes one drum generated in the Size Reduction Vault in Building 776. Since neither the source or contents of the cemented sludge in this drum could be determined, the WEMS characterization cannot be refuted. Therefore, this drum is characterized as D008 and is land disposal restricted. However, it is recommended that the material be sampled and analyzed to confirm the characterization.

Subpopulation 1B consists of approximately 65, IDC 292 incinerator sludge containers. EPA Codes D002, D004-D011, F001, F002, F003, and F005 were assigned to this subpopulation based on the characterization of incinerator feed materials. Based on the characterization of the feed, alcohols, glycols, halogenated solvents, and metals may have been introduced into the incinerator. Because the specific sources of the incinerator feed cannot be determined at this time, it has been assumed that the process could have accepted any of the combustible, plastic, or filter wastes currently contained in the inventory that were generated during the time the incinerator was operational.

A report was generated from the Backlog Waste Reassessment database that summarize the EPA codes assigned to inventory containers of combustibles (IDCs 330 and 336), plastics (337), and Ful-Flo filters (331) generated about the same time that the incinerator was operational. The following EPA codes were contained in the database for these wastes: D004-D011, D018, D019, D028, D029, D035, D038, F001, F002, F003, and F005. It was assumed that the F-listed solvents would have to be applied due to the "derived-from" rule. The codes for the D-listed metals were applied because these metals would be concentrated during incineration. However, it was assumed that the D-listed solvent would be volatilized and driven off in this process. Therefore, these solvents would not be present at levels exceeding Toxicity Characteristic Leaching Procedure (TCLP) limits due to the thermal treatment. This subpopulation is land disposal restricted due to the presence of RCRA metals. It is not land disposal restricted for F-listed solvents because the Best Demonstrated Available Technology (BDAT) (thermal treatment) was used to treat this waste. The EPA Code D002 has been applied, because any liquid in the waste matrix will exceed a pH of 12.5 due to the KOH. Additionally, process description and generator discussion indicates that there was no absorbent added to containers that would have absorbed the remaining liquids.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: The waste is packaged in 55-gallon drums with multiple bag liners. These are typically smaller containers within the drums.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W066	Handling:	CH	NMVP #:	N/A	Stream Name:	Filters & media/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Filter	Waste Matrix Code:	S5410

AS-GENERATED EPA CODES

F005, F003, F002, F001, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.78E+01
Pu-240	7.49E-01
Pu-239	3.27E+00
Am-241	6.18E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	1.0	0.7	0.2	19.5	17.6	39.0
Totals	1.0	0.7	0.2	19.5	17.6	39.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form:	Stored:	1.0	Projected:	37.9	Total:	38.9	Final Waste Form:	Stored:	0.0	Projected:	0.0	Total:	0.0

WASTE STREAM DESCRIPTION

328 - Flu-Flo filters from the recovery incineration, building 771. Must be processed into IDC 376. Mixed Waste.

WASTE STREAM SOURCE

These Ful-Flo filters are in-line cartridge filters used to remove particulates from specific fluid streams in Building 771.

During normal process operations, IDC 328 Ful-Flo filters in the backlog population were used to filter particulates from the incinerator fume scrubber system in Building 771. These filters were used for the filtration of caustic solutions; therefore, they are contaminated with bases and may contain free liquids.

During normal process operations, IDC 331 Ful-Flo filters in this backlog population were used to filter particulates from liquid waste streams in Buildings 371, 707, 771, 776, 777, and 779. These waste streams were primarily from filtration of caustic solutions in Building 371, the carbon tetrachloride system and oil systems, and from filtration of water and developer in Building 707. In Building 771, the primary waste streams filtered were anion column feed, potassium hydroxide, nitrate feed, spent nitric acid and hydrofluoric acid from the scrubber, eluate and effluent exiting the ion-exchange columns, floor pick-up solution were filtered in Building 776. In Buildings 777 and 779, Ful-Flo filters were used in the carbon tetrachloride system for purification of Freon TF and for filtration of incoming waters.

Typically, Ful-Flo filters were placed on drying racks pending bag-out of a glovebox. Filters were not always dried before removal from the glovebox. Filters were then "bagged out" of the glovebox and placed in a second layer of plastic. Next, the filters were placed in a "Poly bottle" or "Clam Shell" (hard plastic container), then placed in a double-lined drum.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

Ful-Flo filters from various buildings are also segregated based on their generation prefixes. The generation prefix corresponds to a Material Balance Account (MBA). Specific gloveboxes in Building 771 have been identified as having nitric acid spray exposure such that "crystals" of nitrate salts have been reported to have formed on the filters causing them to meet the definition of a DOT oxidizer (EG&G 1993d). These gloveboxes were correlated to WSRIC processes and then to generation prefixes to characterize the filters generated from them.

Ful-Flo filters which filtered solutions containing chromium are included in Subpopulations BA, BE, and BH. The EPA Code D007 (chromium) does not apply because the solutions were generated from tanks and are nearly exclusively trivalent chromium. The processes did not generate hexavalent chromium, and these wastes were managed in a non-oxidizing environment (CDH 1994).

Subpopulation 54AA

Subpopulation 54AA consists of all IDC 328 filters. These six drums contain Ful-Flo filters from the Building 771 incinerator. It is assumed that all the drums contain free liquids. Because potassium hydroxide is used to neutralize acidic vapors in the incinerator, the liquid is characterized as RCRA hazardous due to exhibiting the characteristic of corrosivity and assigned EPA Code D002. EPA Codes F001, F002, F003, and F005 are assigned because these codes have been applied to the incinerator ash which has contacted these filters.

Subpopulation 54BA

The four generation prefixes of the nine drums of IDC 331 filters generated in Building 371 indicate that all the filters could have been generated from any process in the building using Ful-Flos. These filters may contain free liquids and exhibit the characteristic of corrosivity. These filters in Subpopulation 54 BA are, therefore, RCRA hazardous and are assigned EPA Code D002.

Subpopulation 54BB

Generation Prefix 12, Module C consists of processes in Building 707 which used IDC 331 Ful-Flo filters to filter oil and carbon tetrachloride. The material filtered is based on information in WSRIC. The single container of filters in Subpopulation 54BB is RCRA hazardous because the filters contain carbon tetrachloride and EPA Code F001 is assigned

Subpopulation 54BC

Generation prefix 15 corresponds to WSRIC Process 6, Machining-Module A, in Building 707. The IDC 331 Ful-Flo filters from this process were used to filter oil and Freon, according to the WSRIC book for Building 707. These 16 containers of filters in Subpopulation 54BC are RCRA hazardous because they contain the F-listed constituent trichloro-trifluoroethane, and are assigned EPA Codes F001 and F002.

Subpopulation 54BD

Generation prefix 22 corresponds to WSRIC processes 4-7, 11-13, 18-20, 23 and 26 in Building 707. The IDC 331 Ful-Flo filters from these processes were used to filter oil, carbon tetrachloride, and Freon, according to WSRIC.

Generation prefix 23 corresponds to WSRIC processes 7,8,9,11, and 12 in Building 777. Generation prefixes 54 and 779 may include any process in Building 779. According to current and archived WSRIC information, the IDC 331 Ful-Flo filters from these processes may have been used to filter oil, carbon tetrachloride, and Freon.

These containers of filters in Subpopulation 54BD are RCRA hazardous because they contain the F-listed constituents carbon tetrachloride and trichloro-trifluoroethane. They are therefore assigned EPA Codes F001 and F002.

Subpopulation 54BE

Subpopulation 54BE consists of all IDC 331 Ful-Flo filters generated from processes in Building 771. There are 146 containers of filters in this subpopulation. These filters could have been used to filter either acidic or caustic liquids, since specific information on the point of generation for each container could not be obtained. Seventeen of these drums were checked for free liquids by Real-Time Radiography (RTR) during "courtesy" inspection in 1993. Because 16 of these drums were evaluated by RTR as having free liquids, all drums in this subpopulation are assumed to have free liquids containing acids or bases that are free liquids. These liquids may exhibit the characteristic of corrosivity, and are assigned EPA Code D002.

Subpopulation 54BF

Generation prefix 04 is used for the Building 777 Radiography Process (Process 777-10). The building of generation should be changed in WEMS from 707 to 777. Based on archived WSRIC information for Radiography, the IDC 331 Ful-Flo filters were used to filter caustic solutions. The single container of filters in Subpopulation 54BF is RCRA hazardous because the filters are assumed to contain free liquids which exhibit the characteristic of corrosivity. EPA Code D002 has therefore been assigned. Additional investigation is warranted to further evaluate if the container has free liquids.

Subpopulation 54BH

Subpopulation 54BH includes all IDC 331 Ful-Flo filters which are shown in WEMS as being generated in Building 776 with prefixes 19, 25, 26, or 57. Based on the WSRIC book for Building 776, these filters could contain acids or bases which are free liquids, and therefore could exhibit the characteristic of corrosivity. The D002 EPA Code is assigned for corrosivity. The filters might have been used to filter oil, carbon tetrachloride, and Freon; therefore, they are assigned EPA Codes F001 and F002.

Subpopulation 54CC

These containers of IDC 335 filters are identified by prefix 746, indicating that they might have been generated from anywhere in Building 774. Because the IDC 335

filters from Process 774-5 are characterized in WSRIC as hazardous and cannot be segregated from other filters in this prefix, all filters in Subpopulation 54CC must be characterized as hazardous. These filters might have been contaminated by sludges containing oil, Freon TF, carbon tetrachloride, and 1,1,1-trichloroethane, from the OASIS Process (774-5). EPA Codes F001 and F002 have therefore been applied.

Subpopulation 54EB

Subpopulation 54EB consists of IDC 342 filters generated from processes in Building 771 assigned to prefixes 02 and 74. This subpopulation includes 62 containers of acid-contaminated glovebox HEPA filters. The following gloveboxes have been determined to have had nitric acid spray exposure, and it has been reported that nitrate salt crystals from on HEPA filters from these gloveboxes, causing the filters to meet the DOT definition of an oxidizer.

Gloveboxes A-1, A-2, A-3, and A-4 in Room 174
Gloveboxes 13, 14, and 15 in Room 114
Glovebox 29 in Room 149

The gloveboxes in Room 174 are associated with the OY Leach Process which corresponds to prefix 74. The gloveboxes in Rooms 114 and 149 are associated with Batching, Precipitation, and other processes corresponding to prefix 02.

Because the containers cannot be segregated according to the source of the filters within prefixes 02 and 74, all filters from these prefixes are assumed to be hazardous. These filters have been used to filter air from gloveboxes in which nitric acid has been used and could exhibit the characteristic of ignitability due to the presence of nitric acid. Nitric acid crystals have been observed on these filters. They are, therefore, assigned EPA Code D001.

Subpopulation 54IA

Subpopulation 54IA consists of all IDC 492 HEPA filters. There are two containers in this subpopulation. The filters are not characteristic of corrosivity because they are not in liquid form. These filters are, therefore, RCRA-nonhazardous. The CCC of 02 is applied due to the contact of these filters with acid vapors.

Other EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: Filter waste is packaged in 55-gallon drums and metal standard waste boxes.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W066	Handling:	CH	NMVP #:	N/A	Stream Name:	Filters & media/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Filter	Waste Matrix Code:	S5410

AS-GENERATED EPA CODES

F002, F001, D007, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.78E+01
Pu-240	7.49E-01
Pu-239	3.27E+00
Am-241	6.18E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	4.6	3.0	0.8	86.1	102.5	197.0
Totals	4.6	3.0	0.8	86.1	102.5	197.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 4.6 Projected: 192.4 Total: 197.0

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

331 - Ful-Flo filters used to filter solids from aqueous solutions. Additional required processing undetermined. Because of the potential of liquids in this IDC, it requires a compatibility code when packaging.

WASTE STREAM SOURCE

These Ful-Flo filters are in-line cartridge filters used throughout Rocky Flats to remove particulates from fluid streams and typically filter down to 5, 1, and 0.5 micron-sized particulates. Ful-Flo filters are used in various liquid systems that include nitric- and chloride-acid systems, such as those found in plutonium recovery operations; caustic systems, such as those found in utilities scrubbing; solvent systems using carbon tetrachloride in machining operations; water systems, such as steam cleaning; and condensate collection. These filters are also used in lubricant oil filtration.

Ful-Flo filters are poly-fiber-wound cartridges, about 10" long by 3.5" in diameter. Other fiber filters, such as R-6 pads, may be included in this IDC. R-6 pads are cloth filters, about sixteen inches in diameter, used to filter solids from nitric acid solutions. Therefore, backlog material in this IDC cannot be considered homogeneous. filter elements are produced by combining a media blanket and spirally wound matrix yarn on an inner core. The filter elements might have a polypropylene cap on one end. Both the media blanket and matrix yarn can be cotton or polypropylene. The inner core material can be constructed of polypropylene, tinned steel, or stainless steel. Warehouse data from Rocky Flats indicate that the inner-core material is polypropylene.

during normal process operations, IDC 331 Ful-Flo filters in this backlog population were used to filter particulates from liquid waste streams in Buildings 371, 707, 771, 776, 777, and 779. These waste streams were primarily from filtration of caustic solutions in Building 371, the carbon tetrachloride system and oil systems, and from filtration of water and developer in Building 707. In Building 771, the primary wste streams filtered were anion column feed, potassium hydroxide, nitrate feed, spent nitric acid and hydrofluoric acid from the scrubber, eluate and effluent exiting the ion-exchange columns, floor pick-up solution, steam condensate, and miscellaneous aqueous solutions. Hydraulic oil and floor pick-up solution were filtered in Building 776. In Buildings 777 and 779, Ful-Flo filters were used in the carbon tetrachloride system for purification of Freon TF and for filtration of incoming waters.

Typically, Ful-Flo filters were placed on drying racks pending bag-out of a glovebox. Filters were not always dried before removal from the glovebox. Filters were then "bagged out" of the glovebox and placed in a second layer of plastic. Next, the filters were placed in a "Poly Bottle" or "Clam Shell" (hard plastic container), then placed in a double-lined drum.

These Ful-Flo filters may be contaminated with acids, bases, carbon tetrachloride, chromium, Freon, and oil. They may contain relatively small amounts of free liquids.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

Ful-Flo filters from various buildings are also segregated based on their generation prefixes. The generation prefix corresponds to a Material Balance Account (MBA). Specific gloveboxes in Building 771 have been identified as having nitric acid spray exposure such that "crystals" of nitrate salts have been reported to have formed on the filters causing them to meet the definition of a DOT oxidizer (EG&G 1993d). These gloveboxes were correlated to WSRIC processes and then to generation prefixes to characterize the filters generated from them.

Ful-Flo filters which filtered solutions containing chromium are included in Subpopulations BA, BE, and BH. The EPA Code D007 (chromium) does not apply because the solutions were generated from tanks and are nearly exclusively trivalent chromium. The processes did not generate hexavalent chromium, and these wastes were managed in a non-oxidizing environment (CDH 1994).

Subpopulation 54AA

Subpopulation 54AA consists of all IDC 326 filters. These six drums contain Ful-Flo filters from the Building 771 incinerator. It is assumed that all the drums contain free liquids. Because potassium hydroxide is used to neutralize acidic vapors in the incinerator, the liquid is characterized as RCRA hazardous due to exhibiting the characteristic of corrosivity and assigned EPA Code D002. EPA Codes F001, F002, F003, and F005 are assigned because these codes have been applied to the

incinerator ash which has contacted these filters.

Subpopulation 54BA

The four generation prefixes of the nine drums of IDC 331 filters generated in Building 371 indicate that all the filters could have been generated from any process in the building using Ful-Flos. These filters may contain free liquids and exhibit the characteristic of corrosivity. These filters in Subpopulation 54 BA are, therefore, RCRA hazardous and are assigned EPA Code D002.

Subpopulation 54BB

Generation Prefix 12, Module C consists of processes in Building 707 which used IDC 331 Ful-Flo filters to filter oil and carbon tetrachloride. The material filtered is based on information in WSRIC. The single container of filters in Subpopulation 54BB is RCRA hazardous because the filters contain carbon tetrachloride and EPA Code F001 is assigned

Subpopulation 54BC

Generation prefix 15 corresponds to WSRIC Process 6, Machining-Module A, in Building 707. The IDC 331 Ful-Flo filters from this process were used to filter oil and Freon, according to the WSRIC book for Building 707. These 16 containers of filters in Subpopulation 54BC are RCRA hazardous because they contain the F-listed constituent trichloro-trifluoroethane, and are assigned EPA Codes F001 and F002.

Subpopulation 54BD

Generation prefix 22 corresponds to WSRIC processes 4-7, 11-13, 18-20, 23 and 26 in Building 707. The IDC 331 Ful-Flo filters from these processes were used to filter oil, carbon tetrachloride, and Freon, according to WSRIC.

Generation prefix 23 corresponds to WSRIC processes 7,8,9,11, and 12 in Building 777. Generation prefixes 54 and 779 may include any process in Building 779. According to current and archived WSRIC information, the IDC 331 Ful-Flo filters from these processes may have been used to filter oil, carbon tetrachloride, and Freon.

These containers of filters in Subpopulation 54BD are RCRA hazardous because they contain the F-listed constituents carbon tetrachloride and trichloro-trifluoroethane. They are therefore assigned EPA Codes F001 and F002.

Subpopulation 54BE

Subpopulation 54BE consists of all IDC 331 Ful-Flo filters generated from processes in Building 771. There are 146 containers of filters in this subpopulation. These filters could have been used to filter either acidic or caustic liquids, since specific information on the point of generation for each container could not be obtained. Seventeen of these drums were checked for free liquids by Real-Time Radiography (RTR) during "courtesy" inspection in 1993. Because 16 of these drums were evaluated by RTR as having free liquids, all drums in this subpopulation are assumed to have free liquids containing acids or bases that are free liquids. These liquids may exhibit the characteristic of corrosivity, and are assigned EPA Code D002.

Subpopulation 54BF

Generation prefix 04 is used for the Building 777 Radiography Process (Process 777-10). The building of generation should be changed in WEMS from 707 to 777. Based on archived WSRIC information for Radiography, the IDC 331 Ful-Flo filters were used to filter caustic solutions. The single container of filters in Subpopulation 54BF is RCRA hazardous because the filters are assumed to contain free liquids which exhibit the characteristic of corrosivity. EPA Code D002 has therefore been assigned. Additional investigation is warranted to further evaluate if the container has free liquids.

Subpopulation 54BH

Subpopulation 54BH includes all IDC 331 Ful-Flo filters which are shown in WEMS as being generated in Building 776 with prefixes 19, 25, 26, or 57. Based on the WSRIC book for Building 776, these filters could contain acids or bases which are free liquids, and therefore could exhibit the characteristic of corrosivity. The D002 EPA Code is assigned for corrosivity. The filters might have been used to filter oil, carbon tetrachloride, and Freon; therefore, they are assigned EPA Codes F001 and F002.

Subpopulation 54CC

These containers of IDC 335 filters are identified by prefix 746, indicating that they might have been generated from anywhere in Building 774. Because the IDC 335 filters from Process 774-5 are characterized in WSRIC as hazardous and cannot be segregated from other filters in this prefix, all filters in Subpopulation 54CC must be characterized as hazardous. These filters might have been contaminated by sludges containing oil, Freon TF, carbon tetrachloride, and 1,1,1-trichloroethane, from the OASIS Process (774-5). EPA Codes F001 and F002 have therefore been applied.

Subpopulation 54EB

Subpopulation 54EB consists of IDC 342 filters generated from processes in Building 771 assigned to prefixes 02 and 74. This subpopulation includes 62 containers of acid-contaminated glovebox HEPA filters. The following gloveboxes have been determined to have had nitric acid spray exposure, and it has been reported that nitrate salt crystals from on HEPA filters from these gloveboxes, causing the filters to meet the DOT definition of an oxidizer.

Gloveboxes A-1, A-2, A-3, and A-4 in Room 174
Gloveboxes 13, 14, and 15 in Room 114
Glovebox 29 in Room 149

The gloveboxes in Room 174 are associated with the OY Leach Process which corresponds to prefix 74. The gloveboxes in Rooms 114 and 149 are associated with Batching, Precipitation, and other processes corresponding to prefix 02.

Because the containers cannot be segregated according to the source of the filters within prefixes 02 and 74, all filters from these prefixes are assumed to be hazardous. These filters have been used to filter air from gloveboxes in which nitric acid has been used and could exhibit the characteristic of ignitability due to the presence of nitric acid. Nitric acid crystals have been observed on these filters. They are, therefore, assigned EPA Code D001.

Subpopulation 54IA

Subpopulation 54IA consists of all IDC 492 HEPA filters. There are two containers in this subpopulation. The filters are not characteristic of corrosivity because they are not in liquid form. These filters are, therefore, RCRA-nonhazardous. The CCC of 02 is applied due to the contact of these filters with acid vapors.

Other EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: Filter waste is packaged in 55-gallon drums and metal standard waste boxes.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W066	Handling:	CH	NMVP #:	RF 119	Stream Name:	Filters & media/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Filter	Waste Matrix Code:	S5410

AS-GENERATED EPA CODES

F002, F001, D019, D009

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	8.3	0.6	56.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	9.8	0.7	66.1
Vitrified:	0.0	0.0	0.0
Cellulosics:	63.4	4.8	429.5
Rubber:	2.8	0.2	19.1
Plastics:	3.8	0.3	25.6
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

RF 119

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.78E+01
Pu-240	7.49E-01
Pu-239	3.27E+00
Am-241	6.18E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	1.5	1.0	0.2	27.3	33.1	63.0
Totals	1.5	1.0	0.2	27.3	33.1	63.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.5	13.9	1.6	173.9	211.1	401.9
Totals	1.5	13.9	1.6	173.9	211.1	401.9

As-Generated Form: Stored: 1.5 Projected: 61.6 Total: 63.0

Final Waste Form: Stored: 1.5 Projected: 400.4 Total: 401.9

WASTE STREAM DESCRIPTION 335 - High efficiency particulate air filters used on glovebox air intakes and exhausts.

WASTE STREAM SOURCE

The material in this IDC is High Efficiency Particulate Air (HEPA) filters used in ventilation systems at Rocky Flats. HEPA filters have been and are used in all of the buildings which contain plutonium processing activities. HEPA filters are used on gloveboxes and in large filter plenums that filter the room air.

Used filters were removed from their position in the ventilation system and packaged for further processing. The filters used on gloveboxes (nominal 8" x 8" x 5") were identified as IDC 335 if they were not acid contaminated.

RE: Section 8.2.11, RFETS deosn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

This waste form is generated from Facility/Equipment Operation, Maintenance, Analytical Laboratories, R&D Laboratories, and D&D.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

Ful-Flo filters from various buildings are also segregated based on their generation prefixes. The generation prefix corresponds to a Material Balance Account (MBA). Specific gloveboxes in Building 771 have been identified as having nitric acid spray exposure such that "crystals" of nitrate salts have been reported to have formed on the filters causing them to meet the definition of a DOT oxidizer (EG&G 1993d). These gloveboxes were correlated to WSRIC processes and then to generation prefixes to characterize the filters generated from them.

Ful-Flo filters which filtered solutions containing chromium are included in Subpopulations BA, BE, and BH. The EPA Code D007 (chromium) does not apply because the solutions were generated from tanks and are nearly exclusively trivalent chromium. The processes did not generate hexavalent chromium, and these wastes were managed in a non-oxidizing environment (CDH 1994).

Subpopulation 54AA

Subpopulation 54AA consists of all IDC 328 filters. These six drums contain Ful-Flo filters from the Building 771 incinerator. It is assumed that all the drums contain free liquids. Because potassium hydroxide is used to neutralize acidic vapors in the incinerator, the liquid is characterized as RCRA hazardous due to exhibiting the characteristic of corrosivity and assigned EPA Code D002. EPA Codes F001, F002, F003, and F005 are assigned because these codes have been applied to the incinerator ash which has contacted these filters.

Subpopulation 54BA

The four generation prefixes of the nine drums of IDC 331 filters generated in Building 371 indicate that all the filters could have been generated from any process in the building using Ful-Flos. These filters may contain free liquids and exhibit the characteristic of corrosivity. These filters in Subpopulation 54 BA are, therefore, RCRA hazardous and are assigned EPA Code D002.

Subpopulation 54BB

Generation Prefix 12, Module C consists of processes in Building 707 which used IDC 331 Ful-Flo filters to filter oil and carbon tetrachloride. The material filtered is based on information in WSRIC. The single container of filters in Subpopulation 54BB is RCRA hazardous because the filters contain carbon tetrachloride and EPA Code F001 is assigned

Subpopulation 54BC

Generation prefix 15 corresponds to WSRIC Process 6, Machining-Module A, in Building 707. The IDC 331 Ful-Flo filters from this process were used to filter oil and

Freon, according to the WSRIC book for Building 707. These 16 containers of filters in Subpopulation 54BC are RCRA hazardous because they contain the F-listed constituent trichloro-trifluoroethane, and are assigned EPA Codes F001 and F002.

Subpopulation 54BD

Generation prefix 22 corresponds to WSRIC processes 4-7, 11-13, 18-20, 23 and 26 in Building 707. The IDC 331 Ful-Flo filters from these processes were used to filter oil, carbon tetrachloride, and Freon, according to WSRIC.

Generation prefix 23 corresponds to WSRIC processes 7,8,9,11, and 12 in Building 777. Generation prefixes 54 and 779 may include any process in Building 779. According to current and archived WSRIC information, the IDC 331 Ful-Flo filters from these processes may have been used to filter oil, carbon tetrachloride, and Freon.

These containers of filters in Subpopulation 54BD are RCRA hazardous because they contain the F-listed constituents carbon tetrachloride and trichloro-trifluoroethane. They are therefore assigned EPA Codes F001 and F002.

Subpopulation 54BE

Subpopulation 54BE consists of all IDC 331 Ful-Flo filters generated from processes in Building 771. There are 146 containers of filters in this subpopulation. These filters could have been used to filter either acidic or caustic liquids, since specific information on the point of generation for each container could not be obtained. Seventeen of these drums were checked for free liquids by Real-Time Radiography (RTR) during "courtesy" inspection in 1993. Because 16 of these drums were evaluated by RTR as having free liquids, all drums in this subpopulation are assumed to have free liquids containing acids or bases that are free liquids. These liquids may exhibit the characteristic of corrosivity, and are assigned EPA Code D002.

Subpopulation 54BF

Generation prefix 04 is used for the Building 777 Radiography Process (Process 777-10). The building of generation should be changed in WEMS from 707 to 777. Based on archived WSRIC information for Radiography, the IDC 331 Ful-Flo filters were used to filter caustic solutions. The single container of filters in Subpopulation 54BF is RCRA hazardous because the filters are assumed to contain free liquids which exhibit the characteristic of corrosivity. EPA Code D002 has therefore been assigned. Additional investigation is warranted to further evaluate if the container has free liquids.

Subpopulation 54BH

Subpopulation 54BH includes all IDC 331 Ful-Flo filters which are shown in WEMS as being generated in Building 776 with prefixes 19, 25, 26, or 57. Based on the WSRIC book for Building 776, these filters could contain acids or bases which are free liquids, and therefore could exhibit the characteristic of corrosivity. The D002 EPA Code is assigned for corrosivity. The filters might have been used to filter oil, carbon tetrachloride, and Freon; therefore, they are assigned EPA Codes F001 and F002.

Subpopulation 54CC

These containers of IDC 335 filters are identified by prefix 746, indicating that they might have been generated from anywhere in Building 774. Because the IDC 335 filters from Process 774-5 are characterized in WSRIC as hazardous and cannot be segregated from other filters in this prefix, all filters in Subpopulation 54CC must be characterized as hazardous. These filters might have been contaminated by sludges containing oil, Freon TF, carbon tetrachloride, and 1,1,1-trichloroethane, from the OASIS Process (774-5). EPA Codes F001 and F002 have therefore been applied.

Subpopulation 54EB

Subpopulation 54EB consists of IDC 342 filters generated from processes in Building 771 assigned to prefixes 02 and 74. This subpopulation includes 62 containers

of acid-contaminated glovebox HEPA filters. The following gloveboxes have been determined to have had nitric acid spray exposure, and it has been reported that nitrate salt crystals from on HEPA filters from these gloveboxes, causing the filters to meet the DOT definition of an oxidizer.

Gloveboxes A-1, A-2, A-3, and A-4 in Room 174
Gloveboxes 13, 14, and 15 in Room 114
Glovebox 29 in Room 149

The gloveboxes in Room 174 are associated with the OY I sach Process which corresponds to prefix 74. The gloveboxes in Rooms 114 and 149 are associated with Batching, Precipitation, and other processes corresponding to prefix 02.

Because the containers cannot be segregated according to the source of the filters within prefixes 02 and 74, all filters from these prefixes are assumed to be hazardous. These filters have been used to filter air from gloveboxes in which nitric acid has been used and could exhibit the characteristic of ignitability due to the presence of nitric acid. Nitric acid crystals have been observed on these filters. They are, therefore, assigned EPA Code D001.

Subpopulation 54IA

Subpopulation 54IA consists of all IDC 492 HEPA filters. There are two containers in this subpopulation. The filters are not characteristic of corrosivity because they are not in liquid form. These filters are, therefore, RCRA-nonhazardous. The CCC of 02 is applied due to the contact of these filters with acid vapors.

Other EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.

MANAGEMENT COMMENTS

N/A

ACCEPTANCE COMMENTS

RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: Filter waste is packaged in 55-gallon drums and metal standard waste boxes.

FINAL FORM COMMENTS

Projection in section 8.2.15.1.13 include generation of IDC-335 and IDC-342 to be processed to IDC-335.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W067	Handling:	CH	NMVP #:	RF 119	Stream Name:	Cemented filters/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Filter	Waste Matrix Code:	S5410

AS-GENERATED EPA CODES

F039, F009, F007, F006, F005, F003, F002, F001, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

RF 119

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	3.60E+01
Pu-240	1.51E+00
Pu-239	6.61E+00
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	1.0	0.7	0.2	19.7	23.9	45.5
Totals	1.0	0.7	0.2	19.7	23.9	45.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	0.0
Totals	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated Form: Stored: 1.0 Projected: 44.1 Total: 45.1

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

This waste consists of filters used in ventilation systems. Some of it has had cement sprinkled on it to neutralize the acid on the filters.

WASTE STREAM SOURCE

The material in this IDC is either the filter media portion of HEPA filters or surface-water filters. HEPA filters are used on gloveboxes and in large filter plenums. Sock filters were used to prefilter operable unit 2 (OU-2) surface water prior to activated carbon treatment.

Used HEPA filters were processed to segregate those portions with high plutonium content and those with low content. The wood frames were separated from the media and almost always disposed of as waste by packing in drums that were assigned IDC 330. the filter media pieces were identified as IDC 338 if they were high in radioactivity and packaged and stored for future recovery of the plutonium. If the pieces of media were low in radioactivity, they were identified as IDC 376 and packaged for shipment as waste.

This filter media can be free of acid contamination or can be heavily contaminated with acid residue. It can also be moist or dry. It could have originated from the production Building 707 and could be contaminated with used solvents such as trichloroethane, carbon tetrachloride, and Freon. IDC 338 was meant to be used as a residue IDC and not as a waste IDC. Because sorting between IDCs was not accurate, some of the IDC 338 backlog containers are below the economic discard limit (EDL) and are therefore not residue.

RE: Section 8.2.11, RFETS deosn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

This waste form is generated from Facility/Equipment Operation, Maintenance, Analytical Laboratories, R&D Laboratories, and D&D.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

Subpopulation DB

Subpopulation DB consists of IDC 338 filter media that could have been exposed to saltcrete in Building 374. Room 3809 was used for Saltcrete Processing (WSRIC Process 374-5). HEPA filters were used to filter nitrate salt particles from the baghouse air stream. The single container of filters in this subpopulation is characterized as RCRA hazardous, and its characterization is based on the current WSRIC characterization for saltcrete. EPA Codes F001, F002, F003, F005, F006, F007, F009, and F039 have therefore been applied. The EPA Code D001 is applied because nitrate salts may have formed on these filters.

Subpopulation DC

Subpopulation DC includes all IDC 338 filter media generated from Building 771. There are 111 containers in this subpopulation. This filter medium might be derived from IDC 342 filters (acid contaminated-see Subpopulations EB and EC), and is characterized the same as the IDC 342 filters from Subpopulation EB. Because this filter medium might have been used to filter nitric acid and nitric salts have been reported to form on the filter media, it could exhibit the characteristic of ignitability and is considered to be an oxidizer due to the presence of nitrate salts. This filter medium is a RCRA-hazardous waste and EPA Code D001 has been applied.

Subpopulation FA

Subpopulation FA includes containers of IDC 376 processed filter media generated throughout Rocky Flats that are characterized as nonhazardous. This processed filter medium is derived from filters generated from processes for which there would be no "carry over" of solvent contamination from vapors. Exclusion of filters from "carry over" contamination is based on WSRIC information and a Waste Technical Support Memorandum. The memorandum states that these HEPA filters are nonhazardous unless RCRA hazardous liquids have condensed from the uncontained gases. It is assumed that these containers do not have free liquids.

MANAGEMENT COMMENTS

N/A

ACCEPTANCE COMMENTS

RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: Filter waste is packaged in 55-gallon drums and metal standard waste boxes.

FINAL FORM COMMENTS

N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W066	Handling:	CH	NMVP #:	N/A	Stream Name:	Filters & media/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Filter	Waste Matrix Code:	S5410

AS-GENERATED EPA CODES

D008, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.78E+01
Pu-240	7.49E-01
Pu-239	3.27E+00
Am-241	6.18E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	7.9	4.8	1.4	148.0	179.7	341.7
Totals	7.9	4.8	1.4	148.0	179.7	341.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 7.9 Projected: 330.9 Total: 338.8

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION 342 - Drybox filters from all acid lines. This waste must be neutralized, then changed to IDC 815 to disposal.

WASTE STREAM SOURCE

HEPA filters are used on all gloveboxes to remove particulates from the atmosphere exiting the glovebox to the plenum exhaust system. The filters in IDC 342 are from gloveboxes with atmospheres that could cause the filters to be contaminated with acids or bases used in chemical processing.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

This waste form is generated from Facility/Equipment Operation, Maintenance, Analytical Laboratories, R&D Laboratories, and D&D.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

Ful-Flo filters from various buildings are also segregated based on their generation prefixes. The generation prefix corresponds to a Material Balance Account (MBA). Specific gloveboxes in Building 771 have been identified as having nitric acid spray exposure such that "crystals" of nitrate salts have been reported to have formed on the filters causing them to meet the definition of a DOT oxidizer (EG&G 1993d). These gloveboxes were correlated to WSRIC processes and then to generation prefixes to characterize the filters generated from them.

Ful-Flo filters which filtered solutions containing chromium are included in Subpopulations BA, BE, and BH. The EPA Code D007 (chromium) does not apply because the solutions were generated from tanks and are nearly exclusively trivalent chromium. The processes did not generate hexavalent chromium, and these wastes were managed in a non-oxidizing environment (CDH 1994).

Subpopulation 54AA

Subpopulation 54AA consists of all IDC 328 filters. These six drums contain Ful-Flo filters from the Building 771 incinerator. It is assumed that all the drums contain free liquids. Because potassium hydroxide is used to neutralize acidic vapors in the incinerator, the liquid is characterized as RCRA hazardous due to exhibiting the characteristic of corrosivity and assigned EPA Code D002. EPA Codes F001, F002, F003, and F005 are assigned because these codes have been applied to the incinerator ash which has contacted these filters.

Subpopulation 54BA

The four generation prefixes of the nine drums of IDC 331 filters generated in Building 371 indicate that all the filters could have been generated from any process in the building using Ful-Flos. These filters may contain free liquids and exhibit the characteristic of corrosivity. These filters in Subpopulation 54 BA are, therefore, RCRA hazardous and are assigned EPA Code D002.

Subpopulation 54BB

Generation Prefix 12, Module C consists of processes in Building 707 which used IDC 331 Ful-Flo filters to filter oil and carbon tetrachloride. The material filtered is based on information in WSRIC. The single container of filters in Subpopulation 54BB is RCRA hazardous because the filters contain carbon tetrachloride and EPA Code F001 is assigned

Subpopulation 54BC

Generation prefix 15 corresponds to WSRIC Process 6, Machining-Module A, in Building 707. The IDC 331 Ful-Flo filters from this process were used to filter oil and Freon, according to the WSRIC book for Building 707. These 16 containers of filters in Subpopulation 54BC are RCRA hazardous because they contain the F-listed constituent trichloro-trifluoroethane, and are assigned EPA Codes F001 and F002.

Subpopulation 54BD

Generation prefix 22 corresponds to WSRIC processes 4-7, 11-13, 18-20, 23 and 26 in Building 707. The IDC 331 Ful-Flo filters from these processes were used to filter oil, carbon tetrachloride, and Freon, according to WSRIC.

Generation prefix 23 corresponds to WSRIC processes 7,8,9,11, and 12 in Building 777. Generation prefixes 54 and 779 may include any process in Building 779. According to current and archived WSRIC information, the IDC 331 Ful-Flo filters from these processes may have been used to filter oil, carbon tetrachloride, and Freon.

These containers of filters in Subpopulation 54BD are RCRA hazardous because they contain the F-listed constituents carbon tetrachloride and trichlorotrifluoroethane. They are therefore assigned EPA Codes F001 and F002.

Subpopulation 54BE

Subpopulation 54BE consists of all IDC 331 Ful-Flo filters generated from processes in Building 771. There are 146 containers of filters in this subpopulation. These filters could have been used to filter either acidic or caustic liquids, since specific information on the point of generation for each container could not be obtained. Seventeen of these drums were checked for free liquids by Real-Time Radiography (RTR) during "courtesy" inspection in 1993. Because 16 of these drums were evaluated by RTR as having free liquids, all drums in this subpopulation are assumed to have free liquids containing acids or bases that are free liquids. These liquids may exhibit the characteristic of corrosivity, and are assigned EPA Code D002.

Subpopulation 54BF

Generation prefix 04 is used for the Building 777 Radiography Process (Process 777-10). The building of generation should be changed in WEMS from 707 to 777. Based on archived WSRIC information for Radiography, the IDC 331 Ful-Flo filters were used to filter caustic solutions. The single container of filters in Subpopulation 54BF is RCRA hazardous because the filters are assumed to contain free liquids which exhibit the characteristic of corrosivity. EPA Code D002 has therefore been assigned. Additional investigation is warranted to further evaluate if the container has free liquids.

Subpopulation 54BH

Subpopulation 54BH includes all IDC 331 Ful-Flo filters which are shown in WEMS as being generated in Building 776 with prefixes 19, 25, 26, or 57. Based on the WSRIC book for Building 776, these filters could contain acids or bases which are free liquids, and therefore could exhibit the characteristic of corrosivity. The D002 EPA Code is assigned for corrosivity. The filters might have been used to filter oil, carbon tetrachloride, and Freon; therefore, they are assigned EPA Codes F001 and F002.

Subpopulation 54CC

These containers of IDC 335 filters are identified by prefix 746, indicating that they might have been generated from anywhere in Building 774. Because the IDC 335 filters from Process 774-5 are characterized in WSRIC as hazardous and cannot be segregated from other filters in this prefix, all filters in Subpopulation 54CC must be characterized as hazardous. These filters might have been contaminated by sludges containing oil, Freon TF, carbon tetrachloride, and 1,1,1-trichloroethane, from the OASIS Process (774-5). EPA Codes F001 and F002 have therefore been applied.

Subpopulation 54EB

Subpopulation 54EB consists of IDC 342 filters generated from processes in Building 771 assigned to prefixes 02 and 74. This subpopulation includes 62 containers of acid-contaminated glovebox HEPA filters. The following gloveboxes have been determined to have had nitric acid spray exposure, and it has been reported that nitrate salt crystals from on HEPA filters from these gloveboxes, causing the filters to meet the DOT definition of an oxidizer.

Gloveboxes A-1, A-2, A-3, and A-4 in Room 174
Gloveboxes 13, 14, and 15 in Room 114
Glovebox 29 in Room 149

The gloveboxes in Room 174 are associated with the OY Leach Process which corresponds to prefix 74. The gloveboxes in Rooms 114 and 149 are associated with Batching, Precipitation, and other processes corresponding to prefix 02.

Because the containers cannot be segregated according to the source of the filters within prefixes 02 and 74, all filters from these prefixes are assumed to be hazardous. These filters have been used to filter air from gloveboxes in which nitric acid has been used and could exhibit the characteristic of ignitability due to the presence of nitric acid. Nitric acid crystals have been observed on these filters. They are, therefore, assigned EPA Code D001.

Subpopulation 54IA

Subpopulation 54IA consists of all IDC 492 HEPA filters. There are two containers in this subpopulation. The filters are not characteristic of corrosivity because they are not in liquid form. These filters are, therefore, RCRA-nonhazardous. The CCC of 02 is applied due to the contact of these filters with acid vapors.

Other EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: Filter waste is packaged in 55-gallon drums and metal standard waste boxes.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W056	Handling:	CH	NMVP #:	RF 118	Stream Name:	Mg Oxide Crucibles/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-metal	Waste Matrix Code:	S5123

AS-GENERATED EPA CODES

D003

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	11.9	0.0	23.8
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	564.2	252.6	789.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	26.9	13.5	53.8
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

RF 118

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	3.30E+00
Pu-240	1.26E+00
Pu-239	5.50E+00
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.6	0.0	0.0	1.4	1.7	3.6
Totals	0.6	0.0	0.0	1.4	1.7	3.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	1.4	1.7	3.6
Totals	0.6	0.0	0.0	1.4	1.7	3.6

As-Generated Form: Stored: 0.6 Projected: 2.9 Total: 3.5

Final Waste Form: Stored: 0.6 Projected: 2.9 Total: 3.5

WASTE STREAM DESCRIPTION	This waste stream includes any type or size of ceramic crucibles or liners including LECO crucibles. This waste consists of magnesium oxide ceramic crucible, magnesium oxide crucible fragments with reactive salts of calcium, magnesium, sodium, and/or potassium adhering to the surface and containing plutonium residue.
WASTE STREAM SOURCE	Transuranic waste and residue crucibles were generated at Rocky Flats by the pyrochemical development work in Buildings 779 and 776; production processes in Buildings 371, 771, and 776; laboratories in Buildings 559 and 771; and electrorefining in Buildings 371, 776 and 779. The generation of these waste populations encompasss IDCs 360, 368, 370, and 655. IDC 360, aluminum oxide ceramic crucibles, backlog containers are stored in Buildings 707 and 776. IDC 368, magnesium oxide ceramic crucibles - not LECO, backlog containers are stored in Buildings 371, 444C, 569, 664, 707, 771, 776, 777, and 964C. IDC 370, LECO crucibles, backlog containers are stored in Buildings 371, 771, 776, and 777. IDC 655, ER ceramic from plutonium/neptunium (Pu/Np), backlog drums are stored in Buildings 371 and 779. The backlog dates of generation recorded in the WEMS database range from August 3, 1973, to February 25, 1992. During the hazardous determination and reassessment characterization phase of the project, the WEMS database was first queried to identify the waste containers constituting the waste form IDCs 360, 368, 370, and 655 populations. The information gained from the WEMS query provided the basis for subpopulation identification. References used during the continuing identification of waste form subpopulations are listed in Section 2.41.6. Additionally, comments and information provided at the reassessment meeting held on August 15, 1994 were incorporated into this revision. Item Description Code 368 During normal process operations, the Electrorefining, Reduction and Button Breakout, Direct Oxide Reduction, and Salt Scrub processes in Buildings 559, 771, and 779 generated broken magnesium oxide crucible pieces. A detailed description of the generating processes presented above can be found in the WSRIC Building Books. However, in general, the crucibles were used to heat plutonium with salts or accelerators allowing for purification or recovery of actinide metals. Upon cooling to room temperature, the crucible or crucible insert used in the process would be broken and its contents removed. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1wt%, but has no supporting data. This stream is generated from Facility Operations, Analytical Laboratories, and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Other EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	Process knowledge. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 3 gallon nalgene jars, double bagged, placed in "clamshell" containers, placed in 55 gallon DOT 7A TYPE A drums with polyethylene rigid liner and bag liner.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W068	Handling:	CH	NMVP #:	N/A	Stream Name:	Particulate Sludge/TRM
Local ID:	None	Type:	MTRU	Generator Site:	ZZ	Final Waste Form:	Solidified Inorganics

Inventory Date: 10/20/94

Waste Matrix Code: S3129

AS-GENERATED EPA CODES

D008, D007

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Pu-241	2.77E+01
Pu-240	1.16E+00
Pu-239	5.08E+00
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.6	0.3	0.2	1.1	0.5	2.7
Totals	0.6	0.3	0.2	1.1	0.5	2.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.6 Projected: 2.1 Total: 2.7

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

This waste consists of sludge type material. It is a semi-fluid material. Some of it has had cement added to it to try to solidify it.

WASTE STREAM SOURCE

This IDC was generated by grit blasting operations in Building 371 (primarily for cleaning steel and iron) and Building 777 in the Machining and Coating processes (primarily cleaning shields). A variety of materials were used for the grit, including iron shot, walnut shells, glasss beads, and ceramic beads. The majority of the grit is thought to be iron shot ranging in size from fines to irregular particles. There were apparently no other RCRA-regulated metals involved in the grit blasting. There is one drum of IDC 372 shown in WEMS as being generated in Building 371. However, no grit blasting operation could be identified in that building.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates <1 wt%, but has no supporting data.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

Subpopulation 46GA includes 15 containers generated in the Building 371 analytical labs. The WSRIC book for the building includes no IDC 299 waste streams. Until shortly after September 1993, the WSRIC book for Building 371 included a process output numbered 371-4-18 (Low-level Soil Sludges) that was assigned EPA Codes D002-D011, D018, D019, D035, D040, F001, F002, F005-F007, and F009. The current WSRIC book for Building 371 includes a new stream, 371-4-22 (Low-Level Soil Sludges), that replaced number 371-4-18, and that is characterized only as characteristic waste with EPA Waste Codes D004-D011. The WEMS characterization for this group is D007. It is assumed, therefore, that since the containers in this group were generated from 1984 to 1992, the materials are best assigned the same waste codes as the 371-4-18 stream cited above, with the exception of the plating waste codes (F006, F007, and F009), and the reactivity code (D003), because it is known that no plating waste was generated in Building 371 labs and that no reactive wastes were generated. Most likely, all 15 containers do not contain wastes that are assigned all of the codes. It is also possible that some of the remaining waste codes can be removed based on EPA guidance concerning the sample exclusion cited in Section 261.4 (d). However, it could not be determined from personnel in Building 371 whether waste stream 371-4-18 was characterized as toxic for benzene (D018), carbon tetrachloride (D019), methyl ethyl ketone (D035), and trichloroethylene (D040) based on the double listing policy previously used or if the codes were assigned because the waste actually exhibits the characteristic of toxicity for those organics. Nor could it be confirmed whether the F-listed solvent codes were assigned because the lab felt it was generating listed solvent waste or if the codes were assigned because the lab was analyzing the F-listed solvent waste. Therefore, until these issues can be resolved, this subpopulation is characterized as hazardous and assigned EPA Waste Codes D002, D004-D011, D018, D019, D035, D040, F002, and F005. These containers should be analyzed unless data exist that can confirm or refute this characterization. The containers are all LDR regulated.

Subpopulation 46GB includes 11 containers generated in miscellaneous residue processing. All drums are characterized as hazardous and assigned EPA Waste Code D007 (chromium) in WEMS. The WSRIC book dated September 1993 includes process outputs numbered 771-12-14, 771-12-16, and 771-27-7, sludge dissolution heel, pipe sludge, and filter plenum sludge, respectively. These WSRIC outputs were generated by the Miscellaneous Residue Processing and Plenums processes. The sludges generated by residue processing are characterized as D007 wastes because the corrosive liquids the sludges came from leached chromium from the insides of stainless-steel transfer lines. The plenum sludge is characterized as nonhazardous. According to NMC, these streams were being generated during the period from 1984 to 1989, which would coincide with dates of generation for Subpopulation GB. According to NMC, the drums of IDC 299 were most likely generated by the residue processing operation. Therefore, the group is characterized as hazardous and assigned waste code D007 until analytical data are collected that prove otherwise. The containers are also LDR regulated.

Subpopulation 46DA includes one drum generated in Building 371, according to WEMS. WEMS also indicates that the drum contains D007 waste. This drum contains grit from grit blasting of stainless steel and could contain chromium. This information could not be verified or refuted at the time this document was produced. Therefore, the drum is characterized as hazardous and assigned EPA Waste Code D007 until proven otherwise. The drum is also prohibited from land disposal.

Subpopulation 46DB includes nine drums generated in Building 777 by the Machining and Coating processes. WEMS shows these drums to be nonhazardous waste. However, since it is likely that lead shielding was the primary metal that was grit blasted, it is also unlikely that the grit waste is contaminated with lead. Therefore, this group is characterized as hazardous and assigned EPA Waste Code D008 until proven otherwise. The materials are also prohibited from land disposal.

Subpopulation 46EB includes one drum generated in the Size Reduction Vault in Building 776. Since neither the source or contents of the cemented sludge in this drum could be determined, the WEMS characterization cannot be refuted. Therefore, this drum is characterized as D008 and is land disposal restricted. However, it is

recommended that the material be sampled and analyzed to confirm the characterization.

Subpopulation 1B consists of approximately 85, IDC 292 incinerator sludge containers. EPA Codes D002, D004-D011, F001, F002, F003, and F005 were assigned to this subpopulation based on the characterization of incinerator feed materials. Based on the characterization of the feed, alcohols, glycols, halogenated solvents, and metals may have been introduced into the incinerator. Because the specific sources of the incinerator feed cannot be determined at this time, it has been assumed that the process could have accepted any of the combustible, plastic, or filter wastes currently contained in the inventory that were generated during the time the incinerator was operational.

A report was generated from the Backlog Waste Reassessment database that summarize the EPA codes assigned to inventory containers of combustibles (IDCs 330 and 336), plastics (337), and Ful-Flo filters (331) generated about the same time that the incinerator was operational. The following EPA codes were contained in the database for these wastes: D004-D011, D018, D019, D028, D029, D035, D038, F001, F002, F003, and F005. It was assumed that the F-listed solvents would have to be applied due to the "derived-from" rule. The codes for the D-listed metals were applied because these metals would be concentrated during incineration. However, it was assumed that the D-listed solvent would be volatilized and driven off in this process. Therefore, these solvents would not be present at levels exceeding Toxicity Characteristic Leaching Procedure (TCLP) limits due to the thermal treatment. This subpopulation is land disposal restricted due to the presence of RCRA metals. It is not land disposal restricted for F-listed solvents because the Best Demonstrated Available Technology (BDAT) (thermal treatment) was used to treat this waste. The EPA Code D002 has been applied, because any liquid in the waste matrix will exceed a pH of 12.5 due to the KOH. Additionally, process description and generator discussion indicates that there was no absorbent added to containers that would have absorbed the remaining liquids.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: The waste is packaged in 55-gallon drums with multiple bag liners. These are typically smaller containers within the drums.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W059	Handling:	CH	NMVP #:	N/A	Stream Name:	Sand, Slag and Crucible/TRM
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics

Inventory Date: 10/20/94

Waste Matrix Code: S3119

AS-GENERATED EPA CODES

D003

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.91E+02
Pu-240	8.01E+00
Pu-239	3.50E+01
Am-241	4.76E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.4	0.0	0.0	2.2	2.7	5.4
Totals	0.4	0.0	0.0	2.2	2.7	5.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.4 Projected: 5.0 Total: 5.4

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

This waste form consists of material that is fine particulates to larger chunks. There is sand, and crucible shards from the break-out process.

WASTE STREAM SOURCE

IDC 391 consists primarily of unpulverized sand and crucible generated as a residue from the reduction of plutonium tetrafluoride to plutonium metal, using calcium metal as the reductant. This reduction operation was performed in a reaction vessel within Glovebox (Line) 17 in Building 771.

The unpulverized sand and crucible are generated from the separation of sand and crucible residues from the calcium fluoride slag following the removal of the plutonium metal button.

Unpulverized sand and crucible is placed in 4-liter, wide-mouth, polyethylene bottles for removal from the glovebox. After the bottles are bagged out, they are assayed individually. The bottles are stored awaiting crushing prior to plutonium recovery by dissolution.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

This waste form is generated from Facility/Equipment Operation and R&D Laboratories.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

Hazardous Waste Determination and Waste Characterization

Item Description Code 387

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D007. This IDC does not appear in active or archived WSRIC information. The IDC 387 Reburned SS&C Sweepings Residue Analysis Study concurs with the D007 characterization.

IDC 387 is Subpopulation 59B and was identified based on specific process knowledge. The heating of the sweepings on the hotplate will oxidize any calcium metal fines that are part of the sweepings. Operational personnel have observed flaking of the inconel pan after repeated heating and cooling cycles. Inconel is approximately thirteen percent chromium according to the Materials Handbook. The reburned sweepings are conservatively assigned D007 based on the unknown level of chromium contamination from the inconel flaking.

Item Description Code 390

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 390 Unpulverized Slag Residue Analysis Study provides a D003 characterization based on IDC 390 being derived from IDC 392, which is characterized as D003 in the 1992 WSRIC book.

IDC 390 is Subpopulation 59C and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 390.

Unpulverized slag is known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water. Therefore, this waste exhibits the characteristic of reactivity (D003).

Item Description Code 391

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 391 Unpulverized Sand and Crucible Residue Analysis Study characterizes the waste form with EPA Code D003 only.

IDC 391 is Subpopulation 59D and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 391.

Unpulverized sand and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water.

Item Description Code 392

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. WSRIC Waste Stream 771-11-12, IDC 392, is also characterized as D003 waste. The IDC 392 Unpulverized Sand, Slag, and Crucible Residue Analysis Study provides a D003 characterization based on the WSRIC Book.

IDC 392 is Subpopulation 39E and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 392.

Unpulverized sand, slag, and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water.

Item Description Code 393

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D007. WSRIC Waste Stream 771-2-6, IDC 393, is also characterized as D007 waste. The IDC 393 Sand, Slag, and Crucible Heel Residue Analysis Study concurs with the D007 characterization.

IDC 393 is Subpopulation 59F and was identified based on specific process knowledge. The grinding and dissolution will oxidize or hydrate any calcium metal fines that are part of the sand, slag, and crucible. Chromium can be added to the heel from the corrosion of the stainless steel in the dissolution process area. The heels are conservatively assigned D007 based on the unknown level of chromium contamination from the acid corrosion of stainless steel.

Item Description Code 395

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 395 Unpulverized Slag and Crucible Residue Analysis Study assigns a D003 characterization based on IDC 395 being derived from IDC 392.

IDC 395 is Subpopulation 59G and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 395.

Unpulverized slag and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas

	when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water. Therefore, this waste exhibits the characteristic of reactivity (D003).
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	LDR_DETERM: Net and gross weight data are not available for all container types. RFP has determined this waste to be LDR based on process knowledge characterization. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Variability surrounding fullness of containers precludes a meaningful computation of density. 2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55-gallon drum DOT 7A TYPE A, Carbon Steel. Projected generation of this waste stream begins in CY2005.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W059	Handling:	CH	NMVP #:	N/A	Stream Name:	Sand, Slag and Crucible/TRM
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics

Inventory Date: 10/20/94

Waste Matrix Code: S3119

AS-GENERATED EPA CODES

D003

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.91E+02
Pu-240	8.01E+00
Pu-239	3.50E+01
Am-241	4.76E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

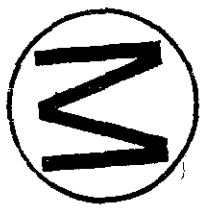
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.4	0.0	0.0	2.2	2.7	5.4
Totals	0.4	0.0	0.0	2.2	2.7	5.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.4 Projected: 5.0 Total: 5.4

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0



WASTE STREAM DESCRIPTION

This waste form consists of material that is fine particulates to larger chunks. There is sand, and crucible shards from the break-out process.

WASTE STREAM SOURCE

IDC 392 consists of unseperated IDC 391 materials.

Unpulverized sand, slag, and crucible are placed in 4-liter, wide-mouthed, polyethylene bottles for removal from the glovebox. After the containers are bagged out, they are assayed individually. The sand, slag, and crucible are stored awaiting crushing prior to plutonium recovery by dissolution.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

This waste form is generated from Facility/Equipment Operation and R&D Laboratories.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

Hazardous Waste Determination and Waste Characterization

Item Description Code 387

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D007. This IDC does not appear in active or archived WSRIC information. The IDC 387 Reburned SS&C Sweepings Residue Analysis Study concurs with the D007 characterization.

IDC 387 is Subpopulation 59B and was identified based on specific process knowledge. The heating of the sweepings on the hotplate will oxidize any calcium metal fines that are part of the sweepings. Operational personnel have observed flaking of the Inconel pan after repeated heating and cooling cycles. Inconel is approximately thirteen percent chromium according to the Materials Handbook. The reburned sweepings are conservatively assigned D007 based on the unknown level of chromium contamination from the Inconel flaking.

Item Description Code 390

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 390 Unpulverized Slag Residue Analysis Study provides a D003 characterization based on IDC 390 being derived from IDC 392, which is characterized as D003 in the 1992 WSRIC book.

IDC 390 is Subpopulation 59C and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 390.

Unpulverized slag is known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water. Therefore, this waste exhibits the characteristic of reactivity (D003).

Item Description Code 391

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 391 Unpulverized Sand and Crucible Residue Analysis Study characterizes the waste form with EPA Code D003 only.

IDC 391 is Subpopulation 59D and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 391.

Unpulverized sand and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water.

Item Description Code 392

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. WSRIC Waste Stream 771-11-12, IDC 392, is also characterized as D003 waste. The IDC 392 Unpulverized Sand, Slag, and Crucible Residue Analysis Study provides a D003 characterization based on the WSRIC Book.

IDC 392 is Subpopulation 39E and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 392.

Unpulverized sand, slag, and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water.

Item Description Code 393

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D007. WSRIC Waste Stream 771-2-6, IDC 393, is also characterized as D007 waste. The IDC 393 Sand, Slag, and Crucible Heel Residue Analysis Study concurs with the D007 characterization.

IDC 393 is Subpopulation 59F and was identified based on specific process knowledge. The grinding and dissolution will oxidize or hydrate any calcium metal fines that are part of the sand, slag, and crucible. Chromium can be added to the heel from the corrosion of the stainless steel in the dissolution process area. The heels are conservatively assigned D007 based on the unknown level of chromium contamination from the acid corrosion of stainless steel.

Item Description Code 395

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 395 Unpulverized Slag and Crucible Residue Analysis Study assigns a D003 characterization based on IDC 395 being derived from IDC 392.

IDC 395 is Subpopulation 59G and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 395.

Unpulverized slag and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water. Therefore, this waste exhibits the characteristic of reactivity (D003).

MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	LDR_DETERM: Net and gross weight data are not available for all container types. RFP has determined this waste to be LDR based on process knowledge characterization. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Variability surrounding fullness of containers precludes a meaningful computation of density. 2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55-gallon drum DOT 7A TYPE A, Carbon Steel. Projected generation of this waste stream begins in CY2005.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W059	Handling:	CH	NMVP #:	N/A	Stream Name:	sand, Slag and Crucible/TRM
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics

Inventory Date: 10/20/94

Waste Matrix Code: S3119

AS-GENERATED EPA CODES

D007

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.91E+02
Pu-240	8.01E+00
Pu-239	3.50E+01
Am-241	4.76E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	11.2	0.0	0.0	62.2	75.9	149.3
Totals	11.2	0.0	0.0	62.2	75.9	149.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 11.2 Projected: 136.9 Total: 148.1

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

This waste form consists of material that is fine particulates to larger chunks. There is sand, and crucible shards from the break-out process.

WASTE STREAM SOURCE

IDC 393 is produced in the Dissolution Process in Gloveboxes (Lines) 23 and 25 in Building 771. Pulverized sand, slag, and crucible from the Crushing Process is placed in a dissolution pot with heated nitric acid and aluminum nitrate. The solution (plutonium nitrate) is pulled by vacuum through an R-6 filter to remove undissolved solids.

The undissolved solids are sand, slag, and crucible heels that are dried on a hot plate and placed in 4-liter, wide-mouth, polyethylene bottles for removal from the glovebox. After the containers are bagged out, they are assayed individually. The residue sand, slag, and crucible heels are stored awaiting plutonium recovery by dissolution.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

This waste form is generated from Facility/Equipment Operation and R&D Laboratories.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

Hazardous Waste Determination and Waste Characterization

Item Description Code 387

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D007. This IDC does not appear in active or archived WSRIC information. The IDC 387 Reburned SS&C Sweepings Residue Analysis Study concurs with the D007 characterization.

IDC 387 is Subpopulation 59B and was identified based on specific process knowledge. The heating of the sweepings on the hotplate will oxidize any calcium metal fines that are part of the sweepings. Operational personnel have observed flaking of the Inconel pan after repeated heating and cooling cycles. Inconel is approximately thirteen percent chromium according to the Materials Handbook. The reburned sweepings are conservatively assigned D007 based on the unknown level of chromium contamination from the Inconel flaking.

Item Description Code 390

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 390 Unpulverized Slag Residue Analysis Study provides a D003 characterization based on IDC 390 being derived from IDC 392, which is characterized as D003 in the 1992 WSRIC book.

IDC 390 is Subpopulation 59C and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 390.

Unpulverized slag is known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water. Therefore, this waste exhibits the characteristic of reactivity (D003).

Item Description Code 391

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 391 Unpulverized Sand and Crucible Residue Analysis Study characterizes the waste form with EPA Code D003 only.

IDC 391 is Subpopulation 59D and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 391.

Unpulverized sand and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water.

Item Description Code 392

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. WSRIC Waste Stream 771-11-12, IDC 392, is also characterized as D003 waste. The IDC 392 Unpulverized Sand, Slag, and Crucible Residue Analysis Study provides a D003 characterization based on the WSRIC Book.

IDC 392 is Subpopulation 39E and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 392.

Unpulverized sand, slag, and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water.

Item Description Code 393

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D007. WSRIC Waste Stream 771-2-6, IDC 393, is also characterized as D007 waste. The IDC 393 Sand, Slag, and Crucible Heel Residue Analysis Study concurs with the D007 characterization.

IDC 393 is Subpopulation 59F and was identified based on specific process knowledge. The grinding and dissolution will oxidize or hydrate any calcium metal fines that are part of the sand, slag, and crucible. Chromium can be added to the heel from the corrosion of the stainless steel in the dissolution process area. The heels are conservatively assigned D007 based on the unknown level of chromium contamination from the acid corrosion of stainless steel.

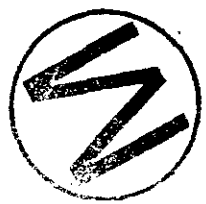
Item Description Code 395

There is no analytical information for this waste form that will assist in RCRA characterization. The Backlog Residue Hazardous Waste Determination Status Report provides a characterization of D003 and D007. This IDC does not appear in active or archived WSRIC information. The IDC 395 Unpulverized Slag and Crucible Residue Analysis Study assigns a D003 characterization based on IDC 395 being derived from IDC 392.

IDC 395 is Subpopulation 59G and was identified based on specific process knowledge. The chromium contamination source associated with the plutonium reduction process is the plutonium fluoride. Plutonium recovery analysis records of the plutonium metal indicate the chromium contamination in the plutonium fluoride remains with the plutonium metal after the reduction is performed. Based on this process knowledge, EPA Code D007 is not appropriate for IDC 395.

Unpulverized slag and crucible are known by process knowledge to contain chunks of calcium metal. Calcium metal will produce significant quantities of hydrogen gas when added to water. The calcium metal is not sufficiently oxidized or hydrated in its current form to significantly reduce the rate of the reaction with water. Therefore,

	this waste exhibits the characteristic of reactivity (D003).
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	LDR_DETERM: Net and gross weight data are not available for all container types. RFP has determined this waste to be LDR based on process knowledge characterization. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Variability surrounding fullness of containers precludes a meaningful computation of density. 2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55-gallon drum DOT 7A TYPE A, Carbon Steel. Projected generation of this waste stream begins in CY2005.
FINAL FORM COMMENTS	



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W063	Handling:	CH	NMVP #:	N/A	Stream Name:	miscellaneous liquids/TRM
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics

Inventory Date: 10/20/94

Waste Matrix Code: L1190

AS-GENERATED EPA CODES

D007, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bottle / 4-Liter	0.02	0.0	0.0	0.0	0.0	0.02
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.02 Projected: 0.0 Total: 0.02

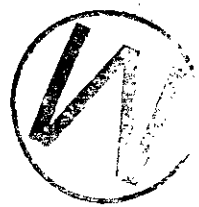
Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	These wastes are aqueous acidic liquid residues.
WASTE STREAM SOURCE	IDC 400 is ion column feed (plutonium nitrate solution) with less than 5 g/l plutonium which is to be processed through Anion Exchange to remove any impurities. These solutions come from various aqueous recovery operations for purification of plutonium. Dissolution in Building 771 dissolved high-impurity, low-plutonium content residues to recover plutonium. Cation Exchange in Building 771 processed chloride solutions (hydrochloric acid containing plutonium) from the laboratories in Buildings 371, 559, and 771. Precipitation Feed Batching in Building 771 combined plutonium nitrate or ion column eluate and evaporator bottoms to achieve the desired plutonium concentration. The solutions (IDC 400) in which impurity concentrations were too high were sent for purification. Reduction and Button Break-Out in Building 771 produced a purified plutonium metal product. In this process, the metal was pickled in a water bath to remove residual calcium. The resulting solution (IDC 400) was mostly water containing plutonium and elemental impurities. Miscellaneous Residue Processing in Building 771 generated IDC 400 from sludge dissolution. Sludge from the process filter plenum was dissolved in heated nitric acid and drained through a filter resulting in nitrate solution (IDC 400). The heel that was formed on the filter was dried on a hot plate and also dissolved. Spray Leach in Building 771 separated metal contaminant from plutonium metal. Certain parts were pretreated by soaking in nitric, hydrofluoric, or sulfuric acids. These acids and acid from the glovebox (GB) floor pick-up were then filtered. RE: Section 6.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Subpopulation A Subpopulation A includes acidic solutions generated in the Building 371 Analytical Laboratory. These solutions were sampled for pH and were determined to be corrosive (D002). Therefore, this subpopulation exhibits the characteristic of corrosivity as defined in 6 CCR 1007-3, Section 261.22. Subpopulation H These solutions were sampled for pH and were determined to be corrosive (D002). Twenty-eight bottles of newly generated solutions generated in Building 771 were sampled for metals. Nine bottles contained greater than 1.0 ppm cadmium, 20 contained greater than 5.0 ppm chromium, and nine contained greater than 5.0 ppm lead. Six bottles are below the regulatory levels for these metals. In addition, Building 771 does X-Ray Fluorescence which uses silver chloride in the analysis. Silver is presumed to be in these solutions, but it has not been determined which bottles were generated from this process and if any of the bottles sampled were from this process. This subpopulation exhibits the characteristics of corrosivity (D002) and toxicity for cadmium, chromium, and lead (D006, D007, and D008) as defined in 6 CCR 1007-3, Sections 261.22 and 261.24.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Variability surronding fullness of containers precludes a meaningful computation of density.

2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55-gallon carbon steel drums.

FINAL FORM COMMENTS



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W058 | Handling: CH | NMVP #: N/A | Stream Name: Misc Pu Recovery ByProduct/TRM | Inventory Date: 10/20/94
Local ID: None | Type: MTRU | Generator Site: RF | Final Waste Form: Salt Waste | Waste Matrix Code: S3141

AS-GENERATED EPA CODES

D007, D003

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.03E+02
Pu-240	8.55E+00
Pu-239	3.73E+01
Am-241	4.23E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	13.0	15.9	29.1
Totals	0.2	0.0	0.0	13.0	15.9	29.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.2 Projected: 28.7 Total: 28.9

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

Its composition includes chunks and powdered mixed salts, a probable presence of magnesium, sodium and potassium metals.

WASTE STREAM SOURCE

Plutonium metal containing unacceptable levels of americium was combined with an equimolar mixture of sodium chloride and potassium chloride with magnesium chloride. The metal and salts were placed in a tantalum crucible and then in a furnace and heated until molten. The molten material was then stirred. While the mixture was molten, the magnesium chloride oxidized most of the ammericium and some of the plutonium, and the oxidized actinides went to the salt phase. After stirring, the salt and metal phases were allowed to separate at the elevated temperature. This process produced IDC 409.

IDC 409 was formed when a 30-mole-percent ratio of magnesium chloride was used in the fresh salt. For all of these IDCs the spent salt is composed primarily of sodium chloride, potassium chloride, residual magnesium chloride, entrained magnesium metal, and various plutonium and americium compounds. Any of the above MSE salts which have been packaged for off-site shipment were assigned IDC 416.

RE: Section 6.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

This waste form is generated from Facility/Equipment Operation and R&D Laboratories.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

Hazardous Waste Determination and Waste Characterization

The primary sources of information for characterizing pyrochemical salts were two position papers, Reactivity of Pyrochemical Salts at Rocky Flats, and Presence of Chromium in Pyrochemical Salts at Rocky Flats. A memorandum from the DOE Rocky Flats Office regarding the Colorado Department of Health's (CDH's) perspective on the definition of reactivity pursuant to the Colorado Hazardous Waste Regulations, 6 CCR 1007-3, was used, as was a letter from EG&G regarding the CDH reactivity definition.

Subpopulation 34A

IDC 411, were generated from the ER process. Magnesium metal may be entrained in the salt. These salts may also contain sodium and potassium metal that was produced during the electrolysis of the molten salt mixture. Dissolution of these salts has occurred at Rocky Flats during R&D activities, and hydrogen gas generation has been observed. These dissolutions were always conducted under controlled conditions with extreme caution to account for the hydrogen gas generation, and no ignition of the hydrogen gas occurred during these dissolutions. These salts do not react "violently" with water, they do not generate toxic gases when mixed with water, and the possibility of water entering a container of these salts and forming an explosive mixture of hydrogen and oxygen is unlikely.

Based on this information, these salts do not exhibit the characteristic of reactivity (D003) as defined by 6 CCR 1007-3, Part 261.23. In addition, CDH has interpreted RCRA-reactivity as a condition that requires three key elements: a high reaction rate, containment of the reaction, and an ignition source, and there must be high probability of these elements occurring at the same time.

None of the above IDCs exhibit the characteristic of toxicity for chromium (D007) as defined by 6 CCR 1007-3, Part 261.24. Thermodynamic calculations conclude that chromium could exist only in insignificant amounts in the salt after the reactions, as chromium would alloy with the plutonium metal.

Subpopulation 34H

IDCs 405-410 were generated from the MSE process. Only magnesium metal and nonreactive metals are entrained in the salt. Testing has shown that the reaction of these salts in water is not "violent" and does not create enough heat to ignite the small amount of hydrogen that is produced. Therefore, these salts do not exhibit the characteristic of reactivity as defined in Subpopulations A-C. These salts also do not exhibit the characteristic of toxicity for chromium as explained in Subpopulations A-C.

Subpopulation 34Q

IDCs 404 and 412 were generated from the Pyroredox Process and contain calcium chloride and zinc chloride which are hygroscopic. As a result, these wastes could have absorbed enough water to contain some free liquid. Testing has shown that the pH of a surrogate sample composed of calcium chloride and zinc chloride is about three, which does not meet the definition of corrosivity (D002) in 6 CCR 1007-3, Part 261.22(a)(1). In addition, testing has demonstrated that the liquid does not corrode steel at a rate greater than 0.250 inches per year. Therefore, the material does not exhibit the characteristic of corrosivity as defined by 6 CCR 1007-3, Part 261.22(a)(2).

Zinc and calcium metal may be entrained in these salts. Sodium and potassium metal may also be present due to the reduction of these metals by the excess calcium metal. However, there is a low probability that any unreacted metals are still present in these salts. Therefore, they would not meet the CDH conditions for reactivity. As a result, these salts do not exhibit the characteristics of reactivity or toxicity for chromium as defined in Subpopulations A-C.

Subpopulation 34S

IDCs 365 and 414 were generated from the DOR process. Calcium metal is entrained in these salts and a "button" of calcium metal may also be packaged with the salt. IDC 365 was produced by a failed DOR run and is expected to contain higher levels of plutonium oxide and calcium metal than IDC 414. When exposed to water, significantly more hydrogen may be generated by these salts if the calcium metal button present as calcium metal does not passivate when immersed in water, but continues to generate hydrogen until the calcium metal is entirely consumed. These salts have been in storage at RFP in ambient atmosphere for several years, and it is suspected that reaction with water has already occurred on the surface of the calcium metal from water present in the air, resulting in some loss of metal and hydrogen gas generation.

Other EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55 gallon drums, DOE 7A TYPE A, Carbon Steel.

Projected generation of this waste form begins in CY2005.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W058	Handling: CH	NMVP #: N/A	Stream Name: Misc Pu Recovery ByProduct/TRM			Inventory Date: 10/20/94	
Local ID: None	Type: MTRU	Generator Site: RF	Final Waste Form: Salt Waste			Waste Matrix Code: S3141	

AS-GENERATED EPA CODES

D007, D003

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.03E+02
Pu-240	8.55E+00
Pu-239	3.73E+01
Am-241	4.23E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	7.9	9.7	17.8
Totals	0.2	0.0	0.0	7.9	9.7	17.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.2 Projected: 17.5 Total: 17.7

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

Its composition includes chunks and powdered mixed salts, a probable presence of magnesium, sodium and potassium metals.

WASTE STREAM SOURCE

Nonspecification plutonium metal, cast as an anode, was combined with and equimolar mixture of sodium chloride and potassium chloride in a magnesium oxide crucible. Magnesium chloride was then added to initiate the plutonium oxidation. The metal and salts were placed in a furnace and heated until molten. The molten mixture was stirred, and a current applied to the anode which flowed through the molten mixture to the cathode. Plutonium ions migrated from the molten anode through the molten salt to the cathode and were reduced to purified metal. After cooling, the crucible was broken and the salt, anode heel, and purified plutonium metal were separated. This process produced IDC 411 salts.

IDC 411 is composed primarily of sodium chloride, potassium chloride, residual magnesium chloride, entrained magnesium metals, and various plutonium compounds. These salts may contain sodium and potassium metal that was produced during the electrolysis of the molten salt mixture. IDC 411 salt packaged for off-site shipment was assigned IDC 473.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates ? 1wt%, but has no supporting data.

This waste form is generated from Facility/Equipment Operation and R&D Laboratories.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

Hazardous Waste Determination and Waste Characterization

The primary sources of information for characterizing pyrochemical salts were two position papers, Reactivity of Pyrochemical Salts at Rocky Flats, and Presence of Chromium in Pyrochemical Salts at Rocky Flats. A memorandum from the DOE Rocky Flats Office regarding the Colorado Department of Health's (CDH's) perspective on the definition of reactivity pursuant to the Colorado Hazardous Waste Regulations, 6 CCR 1007-3, was used, as was a letter from EG&G regarding the CDH reactivity definition.

Subpopulation 34A

IDC 411, were generated from the ER process. Magnesium metal may be entrained in the salt. These salts may also contain sodium and potassium metal that was produced during the electrolysis of the molten salt mixture. Dissolution of these salts has occurred at Rocky Flats during R&D activities, and hydrogen gas generation has been observed. These dissolutions were always conducted under controlled conditions with extreme caution to account for the hydrogen gas generation, and no ignition of the hydrogen gas occurred during these dissolutions. These salts do not react "violently" with water, they do not generate toxic gases when mixed with water, and the possibility of water entering a container of these salts and forming an explosive mixture of hydrogen and oxygen is unlikely.

Based on this information, these salts do not exhibit the characteristic of reactivity (D003) as defined by 6 CCR 1007-3, Part 261.23. In addition, CDH has interpreted RCRA-reactivity as a condition that requires three key elements: a high reaction rate, containment of the reaction, and an ignition source, and there must be high probability of these elements occurring at the same time.

None of the above IDCs exhibit the characteristic of toxicity for chromium (D007) as defined by 6 CCR 1007-3, Part 261.24. Thermodynamic calculations conclude that chromium could exist only in insignificant amounts in the salt after the reactions, as chromium would alloy with the plutonium metal.

Subpopulation 34H

IDCs 405-410 were generated from the MSE process. Only magnesium metal and nonreactive metals are entrained in the salt. Testing has shown that the reaction of these salts in water is not "violent" and does not create enough heat to ignite the small amount of hydrogen that is produced. Therefore, these salts do not exhibit the characteristic of reactivity as defined in Subpopulations A-C. These salts also do not exhibit the characteristic of toxicity for chromium as explained in Subpopulations A-

C.

Subpopulation 34Q

IDCs 404 and 412 were generated from the Pyroredox Process and contain calcium chloride and zinc chloride which are hygroscopic. As a result, these wastes could have absorbed enough water to contain some free liquid. Testing has shown that the pH of a surrogate sample composed of calcium chloride and zinc chloride is about three, which does not meet the definition of corrosivity (D002) in 6 CCR 1007-3, Part 261.22(a)(1). In addition, testing has demonstrated that the liquid does not corrode steel at a rate greater than 0.250 inches per year. Therefore, the material does not exhibit the characteristic of corrosivity as defined by 6 CCR 1007-3, Part 261.22(a)(2).

Zinc and calcium metal may be entrained in these salts. Sodium and potassium metal may also be present due to the reduction of these metals by the excess calcium metal. However, there is a low probability that any unreacted metals are still present in these salts. Therefore, they would not meet the CDH conditions for reactivity. As a result, these salts do not exhibit the characteristics of reactivity or toxicity for chromium as defined in Subpopulations A-C.

Subpopulation 34S

IDCs 365 and 414 were generated from the DOR process. Calcium metal is entrained in these salts and a "button" of calcium metal may also be packaged with the salt. IDC 365 was produced by a failed DOR run and is expected to contain higher levels of plutonium oxide and calcium metal than IDC 414. When exposed to water, significantly more hydrogen may be generated by these salts if the calcium metal button present as calcium metal does not passivate when immersed in water, but continues to generate hydrogen until the calcium metal is entirely consumed. These salts have been in storage at RFP in ambient atmosphere for several years, and it is suspected that reaction with water has already occurred on the surface of the calcium metal from water present in the air, resulting in some loss of metal and hydrogen gas generation.

Other EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55 gallon drums, DOE 7A TYPE A, Carbon Steel.

Projected generation of this waste form begins in CY2005.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W058	Handling:	CH	NMVP #:	N/A	Stream Name:	Misc Pu Recovery ByProduct/TRM
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Salt Waste

Inventory Date: 10/20/94

Waste Matrix Code: S3141

AS-GENERATED EPA CODES

D007, D003, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.03E+02
Pu-240	8.55E+00
Pu-239	3.73E+01
Am-241	4.23E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.4	0.0	0.0	0.2	0.2	0.8
Totals	0.4	0.0	0.0	0.2	0.2	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.4 Projected: 0.4 Total: 0.8

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	Its composition includes chunks and powdered mixed salts, a probable presence of magnesium, sodium and potassium metals.
WASTE STREAM SOURCE	Impure metal was placed in a crucible with sodium chloride, potassium chloride, and zinc chloride. The crucible and contents were heated in a furnace until the contents were molten and the mixture was stirred. While molten, the zinc chloride reacted with the plutonium metal to form plutonium chloride and zinc metal. The contents separated into salt and metal products at process temperature. After cooling and breakout, the plutonium-rich salt phase was reloaded into a crucible along with calcium metal. The crucible and contents were heated in a furnace until the contents were molten and the mixture was stirred. While molten, the calcium reduced the plutonium chloride to plutonium metal. After cooling, the crucible was broken and the metal and salt were separated. This process produced IDC 412 salts. IDC 412 is a Givson salt which was generated by an experimental pyroredox process. The salt is composed primarily of sodium chloride, potassium chloride, calcium chloride, residual zinc chloride, entrained zinc and calcium metal, and various plutonium and americium compounds. Sodium and potassium metal may also be present due to the reduction of these metals by the excess calcium metal. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates ? 1wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Hazardous Waste Determination and Waste Characterization The primary sources of information for characterizing pyrochemical salts were two position papers, Reactivity of Pyrochemical Salts at Rocky Flats, and Presence of Chromium in Pyrochemical Salts at Rocky Flats. A memorandum from the DOE Rocky Flats Office regarding the Colorado Department of Health's (CDH's) perspective on the definition of reactivity pursuant to the Colorado Hazardous Waste Regulations, 6 CCR 1007-3, was used, as was a letter from EG&G regarding the CDH reactivity definition. Subpopulation 34A IDC 411, were generated from the ER process. Magnesium metal may be entrained in the salt. These salts may also contain sodium and potassium metal that was produced during the electrolysis of the molten salt mixture. Dissolution of these salts has occurred at Rocky Flats during R&D activities, and hydrogen gas generation has been observed. These dissolutions were always conducted under controlled conditions with extreme caution to account for the hydrogen gas generation, and no ignition of the hydrogen gas occurred during these dissolutions. These salts do not react "violently" with water, they do not generate toxic gases when mixed with water, and the possibility of water entering a container of these salts and forming an explosive mixture of hydrogen and oxygen is unlikely. Based on this information, these salts do not exhibit the characteristic of reactivity (D003) as defined by 6 CCR 1007-3, Part 261.23. In addition, CDH has interpreted RCRA-reactivity as a condition that requires three key elements: a high reaction rate, containment of the reaction, and an ignition source, and there must be high probability of these elements occurring at the same time. None of the above IDCs exhibit the characteristic of toxicity for chromium (D007) as defined by 6 CCR 1007-3, Part 261.24. Thermodynamic calculations conclude that chromium could exist only in insignificant amounts in the salt after the reactions, as chromium would alloy with the plutonium metal. Subpopulation 34H IDCs 405-410 were generated from the MSE process. Only magnesium metal and nonreactive metals are entrained in the salt. Testing has shown that the reaction of these salts in water is not "violent" and does not create enough heat to ignite the small amount of hydrogen that is produced. Therefore, these salts do not exhibit the characteristic of reactivity as defined in Subpopulations A-C. These salts also do not exhibit the characteristic of toxicity for chromium as explained in Subpopulations A-

C.

Subpopulation 34Q

IDCs 404 and 412 were generated from the Pyroredox Process and contain calcium chloride and zinc chloride which are hygroscopic. As a result, these wastes could have absorbed enough water to contain some free liquid. Testing has shown that the pH of a surrogate sample composed of calcium chloride and zinc chloride is about three, which does not meet the definition of corrosivity (D002) in 6 CCR 1007-3, Part 261.22(a)(1). In addition, testing has demonstrated that the liquid does not corrode steel at a rate greater than 0.250 inches per year. Therefore, the material does not exhibit the characteristic of corrosivity as defined by 6 CCR 1007-3, Part 261.22(a)(2).

Zinc and calcium metal may be entrained in these salts. Sodium and potassium metal may also be present due to the reduction of these metals by the excess calcium metal. However, there is a low probability that any unreacted metals are still present in these salts. Therefore, they would not meet the CDH conditions for reactivity. As a result, these salts do not exhibit the characteristics of reactivity or toxicity for chromium as defined in Subpopulations A-C.

Subpopulation 34S

IDCs 365 and 414 were generated from the DOR process. Calcium metal is entrained in these salts and a "button" of calcium metal may also be packaged with the salt. IDC 365 was produced by a failed DOR run and is expected to contain higher levels of plutonium oxide and calcium metal than IDC 414. When exposed to water, significantly more hydrogen may be generated by these salts if the calcium metal button present as calcium metal does not passivate when immersed in water, but continues to generate hydrogen until the calcium metal is entirely consumed. These salts have been in storage at RFP in ambient atmosphere for several years, and it is suspected that reaction with water has already occurred on the surface of the calcium metal from water present in the air, resulting in some loss of metal and hydrogen gas generation.

Other EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55 gallon drums, DOE 7A TYPE A, Carbon Steel.

Projected generation of this waste form begins in CY2005.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W058	Handling:	CH	NMVP #:	N/A	Stream Name:	Misc Pu Recovery ByProduct/TRM
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Salt Waste

Inventory Date: 10/20/94

Waste Matrix Code: S3141

AS-GENERATED EPA CODES

D003

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.03E+02
Pu-240	8.55E+00
Pu-239	3.73E+01
Am-241	4.23E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	8.7	0.0	0.0	0.2	0.2	9.1
Totals	8.7	0.0	0.0	0.2	0.2	9.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 8.7 Projected: 0.4 Total: 9.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

Its composition includes chunks and powdered mixed salts, a probable presence of magnesium, sodium and potassium metals. .

WASTE STREAM SOURCE

Calcined plutonium oxide was placed in a magnesium oxide crucible with calcium chloride and calcium metal. The crucible and contents were placed in a furnace and heated until the contents were molten. The molten material was stirred to initiate and promote the reduction of the plutonium oxide. After the reaction, the melt was allowed to separate into plutonium metal and salt phases. After cooling, the crucible was broken and separated from the salt, calcium, and plutonium metal. This process produced IDCs 365 and 414.

IDCs 365 and 414 are composed primarily of calcium chloride, calcium oxide, calcium metal entrained in the salt, and various plutonium compounds. A "button" of excess calcium may also be present in some containers of these salts. IDC 365 was produced by a failed DOR run and is expected to contain higher levels of plutonium oxide and calcium metal than IDC 414.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

This waste form is generated from Facility/Equipment Operation and R&D Laboratories.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

Hazardous Waste Determination and Waste Characterization

The primary sources of information for characterizing pyrochemical salts were two position papers, Reactivity of Pyrochemical Salts at Rocky Flats, and Presence of Chromium in Pyrochemical Salts at Rocky Flats. A memorandum from the DOE Rocky Flats Office regarding the Colorado Department of Health's (CDH's) perspective on the definition of reactivity pursuant to the Colorado Hazardous Waste Regulations, 6 CCR 1007-3, was used, as was a letter from EG&G regarding the CDH reactivity definition.

Subpopulation 34A

IDC 411, were generated from the ER process. Magnesium metal may be entrained in the salt. These salts may also contain sodium and potassium metal that was produced during the electrolysis of the molten salt mixture. Dissolution of these salts has occurred at Rocky Flats during R&D activities, and hydrogen gas generation has been observed. These dissolutions were always conducted under controlled conditions with extreme caution to account for the hydrogen gas generation, and no ignition of the hydrogen gas occurred during these dissolutions. These salts do not react "violently" with water, they do not generate toxic gases when mixed with water, and the possibility of water entering a container of these salts and forming an explosive mixture of hydrogen and oxygen is unlikely.

Based on this information, these salts do not exhibit the characteristic of reactivity (D003) as defined by 6 CCR 1007-3, Part 261.23. In addition, CDH has interpreted RCRA-reactivity as a condition that requires three key elements: a high reaction rate, containment of the reaction, and an ignition source, and there must be high probability of these elements occurring at the same time.

None of the above IDCs exhibit the characteristic of toxicity for chromium (D007) as defined by 6 CCR 1007-3, Part 261.24. Thermodynamic calculations conclude that chromium could exist only in insignificant amounts in the salt after the reactions, as chromium would alloy with the plutonium metal.

Subpopulation 34H

IDCs 405-410 were generated from the MSE process. Only magnesium metal and nonreactive metals are entrained in the salt. Testing has shown that the reaction of these salts in water is not "violent" and does not create enough heat to ignite the small amount of hydrogen that is produced. Therefore, these salts do not exhibit the characteristic of reactivity as defined in Subpopulations A-C. These salts also do not exhibit the characteristic of toxicity for chromium as explained in Subpopulations A-C.

Subpopulation 34Q

IDCs 404 and 412 were generated from the Pyroredox Process and contain calcium chloride and zinc chloride which are hygroscopic. As a result, these wastes could have absorbed enough water to contain some free liquid. Testing has shown that the pH of a surrogate sample composed of calcium chloride and zinc chloride is about three, which does not meet the definition of corrosivity (D002) in 6 CCR 1007-3, Part 261.22(a)(1). In addition, testing has demonstrated that the liquid does not corrode steel at a rate greater than 0.250 inches per year. Therefore, the material does not exhibit the characteristic of corrosivity as defined by 6 CCR 1007-3, Part 261.22(a)(2).

Zinc and calcium metal may be entrained in these salts. Sodium and potassium metal may also be present due to the reduction of these metals by the excess calcium metal. However, there is a low probability that any unreacted metals are still present in these salts. Therefore, they would not meet the CDH conditions for reactivity. As a result, these salts do not exhibit the characteristics of reactivity or toxicity for chromium as defined in Subpopulations A-C.

Subpopulation 34S

IDCs 365 and 414 were generated from the DOR process. Calcium metal is entrained in these salts and a "button" of calcium metal may also be packaged with the salt. IDC 365 was produced by a failed DOR run and is expected to contain higher levels of plutonium oxide and calcium metal than IDC 414. When exposed to water, significantly more hydrogen may be generated by these salts if the calcium metal button present as calcium metal does not passivate when immersed in water, but continues to generate hydrogen until the calcium metal is entirely consumed. These salts have been in storage at RFP in ambient atmosphere for several years, and it is suspected that reaction with water has already occurred on the surface of the calcium metal from water present in the air, resulting in some loss of metal and hydrogen gas generation.

Other EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55 gallon drums, DOE 7A TYPE A, Carbon Steel.

Projected generation of this waste form begins in CY2005.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W057	Handling:	CH	NMVP #:	RF 122	Stream Name:	Insulation/TRM	Inventory Date:	10/20/94
Local ID:	IDC 438	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-metal	Waste Matrix Code:	S5129

AS-GENERATED EPA CODES

F009, F001, F002, F003, F005, F007, F039, F006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	91.7	1.9	353.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	4.8	0.0	9.6
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

RF 122

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.48E+01
Pu-240	6.24E-01
Pu-239	2.73E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.4	0.9	1.4	6.5	7.2	16.4
Totals	0.4	0.9	1.4	6.5	7.2	16.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.9	1.4	6.5	7.2	16.4
Totals	0.4	0.9	1.4	6.5	7.2	16.4

As-Generated Form: Stored: 0.4 Projected: 15.8 Total: 16.2

Final Waste Form: Stored: 0.4 Projected: 15.8 Total: 16.2

WASTE STREAM DESCRIPTION	This waste stream is contaminated insulation.
WASTE STREAM SOURCE	Item Description Code 438 Maintenance, repair, and strip-out operations in Buildings 371, 374, 444, 559, 666, 707, 771, 774, 776, 777, 779, 865, 881, and 883 produced waste insulation. Insulation waste is generated by replacement of furnace heating elements, construction, maintenance, and demolition activities within the Protected Area at Rocky Flats. During these activities, insulation material is removed from furnaces, boilers, piping, ceilings and walls, and heating and cooling systems. WEMS data indicate that insulation waste was generated in: Building 374 Acid Neutralization, Radioactive Decontamination, Sludge Solidification, Evaporation, Spray Dryer and Saltcrete, and General Building Operations. Building 444 Maintenance Buildings 559 and 779 Utilities Building 666 Drum Repack Building 707 Foundry Operations-Module A, Casting-Module K, X-Y Retriever-Module J, Maintenance, and Modules A-H Building 771, Maintenance and General Building Waste Building 774 Microwave Process Building 776 during the replacement of furnace heating elements. Generated by construction and demolition activities.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Subpopulation 53D, IDC 438, was identified based on WEMS data, IDC, and discussion with generating personnel. The insulation in this subpopulation was used on pipes, walls, and other barriers and could have come in contact with listed constituents when leaks or spills occurred. According to the generator, the insulation was visibility contaminated with sludge and salt produced in Building 374. The D-codes currently assigned to containers in this subpopulation are not appropriate based on the volume of insulation relative to the amount of caked on sludge. The following EPA Codes were assigned to this waste: F001, F002, F003, F005, F006, F007, F009, and F039. This inventory was generated in Building 374. Other EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP has determined this waste to be LDR based on process knowledge characterization. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55 gallon drums DOT 7A TYPE A; metal boxes.

FINAL FORM COMMENTS N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W066	Handling:	CH	NMVP #:	RF 119	Stream Name:	Filters & media/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Filter	Waste Matrix Code:	S5410

AS-GENERATED EPA CODES

F009, F007, F006, F005, F003, F002, F001, D011, D010, D009, D008, D007, D006, D005, D004

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	15.0	0.8	38.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	15.0	0.8	38.8
Rubber:	7.4	0.3	19.4
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

RF 119

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.78E+01
Pu-240	7.49E-01
Pu-239	3.27E+00
Am-241	6.18E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.6	0.4	0.1	11.9	14.4	27.4
Totals	0.6	0.4	0.1	11.9	14.4	27.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.4	0.1	11.9	14.4	27.4
Totals	0.6	0.4	0.1	11.9	14.4	27.4

As-Generated Form: Stored: 0.6 Projected: 26.6 Total: 27.2

Final Waste Form: Stored: 0.6 Projected: 26.6 Total: 27.2

WASTE STREAM DESCRIPTION

491 - Room air exhaust filters only. This waste must be collected in 55-gallon or 35-gallon drums for assay.

WASTE STREAM SOURCE

The material in this IDC is a variety of plenum prefilters used in the ventilation systems at Rocky Flats. Plenum prefilters have been and are used in all of the buildings that contain plutonium processing activities. These prefilters are used in large plenums that filter the room and glovebox air. Used prefilters were removed from their position in the ventilation system and packaged for furtehr processing.

IDC 491 plenum prefilters range from furnace-type filters to pleated fiberglass filters and can be as large as 24" x 24" x 12". The filter medium consists of fiberglass packing or paper which may be more or less dense, depending on filtering needs. Wire mesh can be used to hold the media in place. The frame material for these prefilters is cardboard.

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

This waste form is generated from Facility/Equipment Operation, Maintenance, Analytical Laboratories, R&D Laboratories, and D&D.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

Ful-Flo filters from various buildings are also segregated based on their generation prefixes. The generation prefix corresponds to a Material Balance Account (MBA). Specific gloveboxes in Building 371 have been identified as having nitric acid spray exposure such that "crystals" of nitrate salts have been reported to have formed on the filters causing them to meet the definition of a DOT oxidizer (EG&G 1993d). These gloveboxes were correlated to WSRIC processes and then to generation prefixes to characterize the filters generated from them.

Ful-Flo filters which filtered solutions containing chromium are included in Subpopulations BA, BE, and BH. The EPA Code D007 (chromium) does not apply because the solutions were generated from tanks and are nearly exclusively trivalent chromium. The processes did not generate hexavalent chromium, and these wastes were managed in a non-oxidizing environment (CDH 1994).

Subpopulation 54AA

Subpopulation 54AA consists of all IDC 328 filters. These six drums contain Ful-Flo filters from the Building 771 incinerator. It is assumed that all the drums contain free liquids. Because potassium hydroxide is used to neutralize acidic vapors in the incinerator, the liquid is characterized as RCRA hazardous due to exhibiting the characteristic of corrosivity and assigned EPA Code D002. EPA Codes F001, F002, F003; and F005 are assigned because these codes have been applied to the incinerator ash which has contacted these filters.

Subpopulation 54BA

The four generation prefixes of the nine drums of IDC 331 filters generated in Building 371 indicate that all the filters could have been generated from any process in the building using Ful-Flos. These filters may contain free liquids and exhibit the characteristic of corrosivity. These filters in Subpopulation 54 BA are, therefore, RCRA hazardous and are assigned EPA Code D002.

Subpopulation 54BB

Generation Prefix 12, Module C consists of processes in Building 707 which used IDC 331 Ful-Flo filters to filter oil and carbon tetrachloride. The material filtered is based on information in WSRIC. The single container of filters in Subpopulation 54BB is RCRA hazardous because the filters contain carbon tetrachloride and EPA Code F001 is assigned

Subpopulation 54BC

Generation prefix 15 corresponds to WSRIC Process 6, Machining-Module A, in Building 707. The IDC 331 Ful-Flo filters from this process were used to filter oil and Freon, according to the WSRIC book for Building 707. These 16 containers of filters in Subpopulation 54BC are RCRA hazardous because they contain the F-listed constituent trichloro-trifluoroethane, and are assigned EPA Codes F001 and F002.

Subpopulation 54BD

Generation prefix 22 corresponds to WSRIC processes 4-7, 11-13, 18-20, 23 and 26 in Building 707. The IDC 331 Ful-Flo filters from these processes were used to filter oil, carbon tetrachloride, and Freon, according to WSRIC.

Generation prefix 23 corresponds to WSRIC processes 7,8,9,11, and 12 in Building 777. Generation prefixes 54 and 779 may include any process in Building 779. According to current and archived WSRIC information, the IDC 331 Ful-Flo filters from these processes may have been used to filter oil, carbon tetrachloride, and Freon.

These containers of filters in Subpopulation 54BD are RCRA hazardous because they contain the F-listed constituents carbon tetrachloride and trichloro-trifluoroethane. They are therefore assigned EPA Codes F001 and F002.

Subpopulation 54BE

Subpopulation 54BE consists of all IDC 331 Ful-Flo filters generated from processes in Building 771. There are 146 containers of filters in this subpopulation. These filters could have been used to filter either acidic or caustic liquids, since specific information on the point of generation for each container could not be obtained. Seventeen of these drums were checked for free liquids by Real-Time Radiography (RTR) during "courtesy" inspection in 1993. Because 16 of these drums were evaluated by RTR as having free liquids, all drums in this subpopulation are assumed to have free liquids containing acids or bases that are free liquids. These liquids may exhibit the characteristic of corrosivity, and are assigned EPA Code D002.

Subpopulation 54BF

Generation prefix 04 is used for the Building 777 Radiography Process (Process 777-10). The building of generation should be changed in WEMS from 707 to 777. Based on archived WSRIC information for Radiography, the IDC 331 Ful-Flo filters were used to filter caustic solutions. The single container of filters in Subpopulation 54BF is RCRA hazardous because the filters are assumed to contain free liquids which exhibit the characteristic of corrosivity. EPA Code D002 has therefore been assigned. Additional investigation is warranted to further evaluate if the container has free liquids.

Subpopulation 54BH

Subpopulation 54BH includes all IDC 331 Ful-Flo filters which are shown in WEMS as being generated in Building 776 with prefixes 19, 25, 26, or 57. Based on the WSRIC book for Building 776, these filters could contain acids or bases which are free liquids, and therefore could exhibit the characteristic of corrosivity. The D002 EPA Code is assigned for corrosivity. The filters might have been used to filter oil, carbon tetrachloride, and Freon; therefore, they are assigned EPA Codes F001 and F002.

Subpopulation 54CC

These containers of IDC 335 filters are identified by prefix 746, indicating that they might have been generated from anywhere in Building 774. Because the IDC 335 filters from Process 774-5 are characterized in WSRIC as hazardous and cannot be segregated from other filters in this prefix, all filters in Subpopulation 54CC must be characterized as hazardous. These filters might have been contaminated by sludges containing oil, Freon TF, carbon tetrachloride, and 1,1,1-trichloroethane, from the OASIS Process (774-5). EPA Codes F001 and F002 have therefore been applied.

Subpopulation 54EB

Subpopulation 54EB consists of IDC 342 filters generated from processes in Building 771 assigned to prefixes 02 and 74. This subpopulation includes 62 containers of acid-contaminated glovebox HEPA filters. The following gloveboxes have been determined to have had nitric acid spray exposure, and it has been reported that nitrate salt crystals from on HEPA filters from these gloveboxes, causing the filters to meet the DOT definition of an oxidizer.

Gloveboxes A-1, A-2, A-3, and A-4 in Room 174
Gloveboxes 13, 14, and 15 in Room 114
Glovebox 29 in Room 149

The gloveboxes in Room 174 are associated with the OY Leach Process which corresponds to prefix 74. The gloveboxes in Rooms 114 and 149 are associated with Batching, Precipitation, and other processes corresponding to prefix 02.

Because the containers cannot be segregated according to the source of the filters within prefixes 02 and 74, all filters from these prefixes are assumed to be hazardous. These filters have been used to filter air from gloveboxes in which nitric acid has been used and could exhibit the characteristic of ignitability due to the presence of nitric acid. Nitric acid crystals have been observed on these filters. They are, therefore, assigned EPA Code D001.

Subpopulation 54IA

Subpopulation 54IA consists of all IDC 492 HEPA filters. There are two containers in this subpopulation. The filters are not characteristic of corrosivity because they are not in liquid form. These filters are, therefore, RCRA-nonhazardous. The CCC of 02 is applied due to the contact of these filters with acid vapors.

Other EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: Filter waste is packaged in 55-gallon drums and metal standard waste boxes.

FINAL FORM COMMENTS N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W066	Handling:	CH	NMVP #:	N/A	Stream Name:	Filters & media/TRM
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Filter

Inventory Date: 10/20/94

Waste Matrix Code: S5410

AS-GENERATED EPA CODES

F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.78E+01
Pu-240	7.49E-01
Pu-239	3.27E+00
Am-241	6.18E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box /	1.9	0.0	0.0	0.0	0.0	1.9
Totals	1.9	0.0	0.0	0.0	0.0	1.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 1.9 Projected: 0.0 Total: 1.9

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

492 - High efficiency particulate air filters, 24x24x12. All IDC 492 HEPA filters must be repackaged in size reduction. This waste form must be neutralized and changed to IDC 815.

WASTE STREAM SOURCE

The material in this IDC is HEPA filters in the ventilation systems at Rocky Flats. HEPA filters have been and are used in all of the buildings which contain plutonium processing activities. HEPA filters are used on gloveboxes and in large plenums that filter the room and glovebox air.

Used filters were removed from their position in the ventilation system and packaged for further processing. The larger-sized filters used in filters plenums were identified and packaged as IDC 492 if acid contaminated.

IDC 492 HEPA filters (24" x 24"), acid contaminated, are large HEPA filters (nominal 24" x 24" x 5" or 24" x 24" x 12") that were used in filter plenum racks. These filters consist of filter media contained within a wooden or metal frame.

RE: Section 6.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

This waste form is generated from Facility/Equipment Operation, Maintenance, Analytical Laboratories, R&D Laboratories, and D&D.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

Ful-Flo filters from various buildings are also segregated based on their generation prefixes. The generation prefix corresponds to a Material Balance Account (MBA). Specific gloveboxes in Building 771 have been identified as having nitric acid spray exposure such that "crystals" of nitrate salts have been reported to have formed on the filters causing them to meet the definition of a DOT oxidizer (EG&G 1993d). These gloveboxes were correlated to WSRIC processes and then to generation prefixes to characterize the filters generated from them.

Ful-Flo filters which filtered solutions containing chromium are included in Subpopulations BA, BE, and BH. The EPA Code D007 (chromium) does not apply because the solutions were generated from tanks and are nearly exclusively trivalent chromium. The processes did not generate hexavalent chromium, and these wastes were managed in a non-oxidizing environment (CDH 1994).

Subpopulation 54AA

Subpopulation 54AA consists of all IDC 328 filters. These six drums contain Ful-Flo filters from the Building 771 incinerator. It is assumed that all the drums contain free liquids. Because potassium hydroxide is used to neutralize acidic vapors in the incinerator, the liquid is characterized as RCRA hazardous due to exhibiting the characteristic of corrosivity and assigned EPA Code D002. EPA Codes F001, F002, F003, and F005 are assigned because these codes have been applied to the incinerator ash which has contacted these filters.

Subpopulation 54BA

The four generation prefixes of the nine drums of IDC 331 filters generated in Building 371 indicate that all the filters could have been generated from any process in the building using Ful-Flos. These filters may contain free liquids and exhibit the characteristic of corrosivity. These filters in Subpopulation 54 BA are, therefore, RCRA hazardous and are assigned EPA Code D002.

Subpopulation 54BB

Generation Prefix 12, Module C consists of processes in Building 707 which used IDC 331 Ful-Flo filters to filter oil and carbon tetrachloride. The material filtered is based on information in WSRIC. The single container of filters in Subpopulation 54BB is RCRA hazardous because the filters contain carbon tetrachloride and EPA Code F001 is assigned

Subpopulation 54BC

Generation prefix 15 corresponds to WSRIC Process 6, Machining-Module A, in Building 707. The IDC 331 Ful-Flo filters from this process were used to filter oil and Freon, according to the WSRIC book for Building 707. These 16 containers of filters in Subpopulation 54BC are RCRA hazardous because they contain the F-listed constituent trichloro-trifluoroethane, and are assigned EPA Codes F001 and F002.

Subpopulation 54BD

Generation prefix 22 corresponds to WSRIC processes 4-7, 11-13, 18-20, 23 and 26 in Building 707. The IDC 331 Ful-Flo filters from these processes were used to filter oil, carbon tetrachloride, and Freon, according to WSRIC.

Generation prefix 23 corresponds to WSRIC processes 7,8,9,11, and 12 in Building 777. Generation prefixes 54 and 779 may include any process in Building 779. According to current and archived WSRIC information, the IDC 331 Ful-Flo filters from these processes may have been used to filter oil, carbon tetrachloride, and Freon.

These containers of filters in Subpopulation 54BD are RCRA hazardous because they contain the F-listed constituents carbon tetrachloride and trichloro-trifluoroethane. They are therefore assigned EPA Codes F001 and F002.

Subpopulation 54BE

Subpopulation 54BE consists of all IDC 331 Ful-Flo filters generated from processes in Building 771. There are 146 containers of filters in this subpopulation. These filters could have been used to filter either acidic or caustic liquids, since specific information on the point of generation for each container could not be obtained. Seventeen of these drums were checked for free liquids by Real-Time Radiography (RTR) during "courtesy" inspection in 1993. Because 16 of these drums were evaluated by RTR as having free liquids, all drums in this subpopulation are assumed to have free liquids containing acids or bases that are free liquids. These liquids may exhibit the characteristic of corrosivity, and are assigned EPA Code D002.

Subpopulation 54BF

Generation prefix 04 is used for the Building 777 Radiography Process (Process 777-10). The building of generation should be changed in WEMS from 707 to 777. Based on archived WSRIC information for Radiography, the IDC 331 Ful-Flo filters were used to filter caustic solutions. The single container of filters in Subpopulation 54BF is RCRA hazardous because the filters are assumed to contain free liquids which exhibit the characteristic of corrosivity. EPA Code D002 has therefore been assigned. Additional investigation is warranted to further evaluate if the container has free liquids.

Subpopulation 54BH

Subpopulation 54BH includes all IDC 331 Ful-Flo filters which are shown in WEMS as being generated in Building 776 with prefixes 19, 25, 26, or 57. Based on the WSRIC book for Building 776, these filters could contain acids or bases which are free liquids, and therefore could exhibit the characteristic of corrosivity. The D002 EPA Code is assigned for corrosivity. The filters might have been used to filter oil, carbon tetrachloride, and Freon; therefore, they are assigned EPA Codes F001 and F002.

Subpopulation 54CC

These containers of IDC 335 filters are identified by prefix 746, indicating that they might have been generated from anywhere in Building 774. Because the IDC 335 filters from Process 774-5 are characterized in WSRIC as hazardous and cannot be segregated from other filters in this prefix, all filters in Subpopulation 54CC must be characterized as hazardous. These filters might have been contaminated by sludges containing oil, Freon TF, carbon tetrachloride, and 1,1,1-trichloroethane, from the OASIS Process (774-5). EPA Codes F001 and F002 have therefore been applied.

Subpopulation 54EB

Subpopulation 54EB consists of IDC 342 filters generated from processes in Building 771 assigned to prefixes 02 and 74. This subpopulation includes 62 containers of acid-contaminated glovebox HEPA filters. The following gloveboxes have been determined to have had nitric acid spray exposure, and it has been reported that nitrate salt crystals from on HEPA filters from these gloveboxes, causing the filters to meet the DOT definition of an oxidizer.

Gloveboxes A-1, A-2, A-3, and A-4 in Room 174
Gloveboxes 13, 14, and 15 in Room 114
Glovebox 29 in Room 149

The gloveboxes in Room 174 are associated with the OY Leach Process which corresponds to prefix 74. The gloveboxes in Rooms 114 and 149 are associated with Batching, Precipitation, and other processes corresponding to prefix 02.

Because the containers cannot be segregated according to the source of the filters within prefixes 02 and 74, all filters from these prefixes are assumed to be hazardous. These filters have been used to filter air from gloveboxes in which nitric acid has been used and could exhibit the characteristic of ignitability due to the presence of nitric acid. Nitric acid crystals have been observed on these filters. They are, therefore, assigned EPA Code D001.

Subpopulation 54IA

Subpopulation 54IA consists of all IDC 492 HEPA filters. There are two containers in this subpopulation. The filters are not characteristic of corrosivity because they are not in liquid form. These filters are, therefore, RCRA-nonhazardous. The CCC of 02 is applied due to the contact of these filters with acid vapors.

Other EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: Filter waste is packaged in 55-gallon drums and metal standard waste boxes.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W063	Handling:	CH	NMVP #:	N/A	Stream Name:	miscellaneous liquids/TRM
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics

Inventory Date: 10/20/94

Waste Matrix Code: L1190

AS-GENERATED EPA CODES

F009, F007, F005, F003, F002, F001, D043, D040, D039, D038, D035, D028, D022, D019, D018, D011, D010, D009, D008, D007, D006, D005, D004, D003, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bottle / 4-Liter	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	These wastes are aqueous acidic liquid residues.
WASTE STREAM SOURCE	The Building 371 analytical laboratory receives liquid and solid samples from the entire plant site. Samples that are destined for Building 881 are analyzed in Building 371 to screen out those with high levels of radioactivity. Sludge and aqueous samples from Building 374 are analyzed for total alpha activity and plutonium, uranium, and americium content. Prior to analysis, the sludges are dissolved in nitric acid, hydrogen fluoride, or hydrochloric acid. Reagents are also used in sample preparation. Unused portions or excess prepared sample are placed in 4-liter plastic bottles. The Building 559 analytical laboratory also receives liquid and solid samples from the entire plant site. Samples are analyzed for various ions, iron, silicon, isotopic composition, and americium, gallium, neptunium, plutonium, uranium, and other metals (Resource Conservation and Recoverey Act [RCRA] - regulated and nonregulated). Solid samples are dissolved in a variety of acids, including nitric and hydrochloric. Other chemicals used in the laboratory include methanol, chloroform, and other organic solvents; titanium trichloride; ceric ammonium nitrate; sodium hydroxide; silver chloride; silver nitrate; and various metals standards. Unused portions or excess prepared samples are placed in 4-liter plastic bottles. Metal standards are also place on the bottles. The Building 771 analytical laboratory also receives liquid and solid samples from the entire plant site. Samples are analyzed for various metals and ions, pH, and radioactivity. The principal chemicals used in the lab include sodium hydroxide, hydrochloric acid, nitric acid, cyclohexane, trioctyl phosphine oxide, yttrium, and various metal standards. Unused portions or excess prepared samples are placed in 4-liter plastic bottles. Metal standards are also placed in the bottles. RE: Section 6.2.11, RFETS doesn't expect sulfates, phosphates >1 wt%, but has no supporting data. RFETS does expect nitrate concentration to be >1%, but has no data indicating the actual concentration or range.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Subpopulation A Subpopulation A includes acidic solutions generated in the Building 371 Analytical Laboratory. These solutions were sampled for pH and were determined to be corrosive (D002). Therefore, this subpopulation exhibits the characteristic of corrosivity as defined in 6 CCR 1007-3, Section 261.22. Subpopulation H These solutions were sampled for pH and were determined to be corrosive (D002). Twenty-eight bottles of newly generated solutions generated in Building 771 were sampled for metals. Nine bottles contained greater than 1.0 ppm cadmium, 20 contained greater than 5.0 ppm chromium, and nine contained greater than 5.0 ppm lead. Six bottles are below the regulatory levels for these metals. In addition, Building 771 does X-Ray Fluorescence which uses silver chloride in the analysis. Silver is presumed to be in these solutions, but it has not been determined which bottles were generated from this process and if any of the bottles sampled were from this process. This subpopulation exhibits the characteristics of corrosivity (D002) and toxicity for cadmium, chromium, and lead (D006, D007, and D008) as defined in 6 CCR 1007-3, Sections 261.22 and 261.24.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Variability surronding fullness of containers precludes a meaningful computation of density.

2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55-gallon carbon steel drums.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W068	Handling:	CH	NMVP #:	N/A	Stream Name:	Particulate Sludge/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	ZZ	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3129

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	29.3	0.7	98.7
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	10.5	0.2	35.5
Solidified Inorganic Material:	26.3	0.6	88.6
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	17.5	0.4	59.1
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.77E+01
Pu-240	1.16E+00
Pu-239	5.08E+00
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION

This waste consists of sludge type material. It is a semi-fluid material. Some of it has had cement added to it to try to solidify it.

WASTE STREAM SOURCE

IDC 823, cemented miscellaneous sludge, was generated when sludge designated as inorganic particulate and sludgy material that was below the economic discard limit (EDL) was placed in 1-gallon paint cans and covered with Portland cement or mixed with cement into a block. The first scenario was conducted in Building 771 and the second in Building 371. This could have included IDCs 290-299 and was done to meet the Waste Isolation Pilot Plant (WIPP) waste acdceptance criteria. The material came primarily from Nash pumps in Building 771 and included vacuum grease and oily sludge. One drum of the material was apparently generated when the pit in front of Building 707 was cleaned out. However, the contents of the pit sludge could not be ascertained. One drum was generated in the Size Reduction Vault in Building 776. Six drums were generated in Building 774 and are stored in Building 371. Drum-specifiec information was requested but was not received. The drums from Building 559 are incorrectly assigned IDC 823 in WEMS. The drums are stored in Building 771 and are labeled with IDC 863. It appears that IDC 823 was entered incorrectly in WEMS. Therefore, these drums should be changed to IDC 863 in WEMS.

RE: Section 8.2.11, RFETs doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

This waste form is generated from Facility/Equipment Operation, Maintenance, Analytical Laboratories, D&D, and limited Emergency Response actions.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

Subpopulation 46GA includes 15 containers generated in the Building 371 analytical labs. The WSRIC book for the building includes no IDC 299 waste streams. Until shortly after September 1993, the WSRIC book for Building 371 included a process output numbered 371-4-18 (Low-level Soil Sludges) that was assigned EPA Codes D002-D011, D018, D019, D035, D040, F001, F002, F005-F007, and F009. The current WSRIC book for Building 371 includes a new stream, 371-4-22 (Low-Level Soil Sludges), that replaced number 371-4-18, and that is characterized only as characteristic waste with EPA Waste Codes D004-D011. The WEMS characterization for this group is D007. It is assumed, therefore, that since the containers in this group were generated from 1984 to 1992, the materials are best assigned the same waste codes as the 371-4-18 stream cited above, with the exception of the plating waste codes (F006, F007, and F009), and the reactivity code (D003), because it is known that no plating waste was generated in Building 371 labs and that no reactive wastes were generated. Most likely, all 15 containers do not contain wastes that are assigned all of the codes. It is also possible that some of the remaining waste codes can be removed based on EPA guidance concerning the sample exclusion cited in Section 261.4 (d). However, it could not be determined from personnel in Building 371 whether waste stream 371-4-18 was characterized as toxic for benzene (D018), carbon tetrachloride (D019), methyl ethyl ketone (D035), and trichloroethylene (D040) based on the double listing policy previously used or if the codes were assigned because the waste actually exhibits the characteristic of toxicity for those organics. Nor could it be confirmed whether the F-listed solvent codes were assigned because the lab felt it was generating listed solvent waste or if the codes were assigned because the lab was analyzing the F-listed solvent waste. Therefore, until these issues can be resolved, this subpopulation is characterized as hazardous and assigned EPA Waste Codes D002, D004-D011, D018, D019, D035, D040, F002, and F005. These containers should be analyzed unless data exist that can confirm or refute this characterization. The containers are all LDR regulated.

Subpopulation 46GB includes 11 containers generated in miscellaneous residue processing. All drums are characterized as hazardous and assigned EPA Waste Code D007 (chromium) in WEMS. The WSRIC book dated September 1993 includes process outputs numbered 771-12-14, 771-12-16, and 771-27-7, sludge dissolution heel, pipe sludge, and filter plenum sludge, respectively. These WSRIC outputs were generated by the Miscellaneous Residue Processing and Plenums processes. The sludges generated by residue processing are characterized as D007 wastes because the corrosive liquids the sludges came from leached chromium from the insides of stainless-steel transfer lines. The plenum sludge is characterized as nonhazardous. According to NMC, these streams were being generated during the period from 1984 to 1989, which would coincide with dates of generation for Subpopulation GB. According to NMC, the drums of IDC 299 were most likely generated by the residue processing operation. Therefore, the group is characterized as hazardous and assigned waste code D007 until analytical data are collected that prove otherwise. The containers are also LDR regulated.

Subpopulation 46DA includes one drum generated in Building 371, according to WEMS. WEMS also indicates that the drum contains D007 waste. This drum contains grit from grit blasting of stainless steel and could contain chromium. This information could not be verified or refuted at the time this document was produced. Therefore, the drum is characterized as hazardous and assigned EPA Waste Code D007 until proven otherwise. The drum is also prohibited from land disposal.

Subpopulation 46DB includes nine drums generated in Building 777 by the Machining and Coating processes. WEMS shows these drums to be nonhazardous waste. However, since it is likely that lead shielding was the primary metal that was grit blasted, it is also unlikely that the grit waste is contaminated with lead. Therefore, this group is characterized as hazardous and assigned EPA Waste Code D008 until proven otherwise. The materials are also prohibited from land disposal.

Subpopulation 46EB includes one drum generated in the Size Reduction Vault in Building 776. Since neither the source or contents of the cemented sludge in this drum could be determined, the WEMS characterization cannot be refuted. Therefore, this drum is characterized as D008 and is land disposal restricted. However, it is recommended that the material be sampled and analyzed to confirm the characterization.

Subpopulation 1B consists of approximately 85, IDC 292 incinerator sludge containers. EPA Codes D002, D004-D011, F001, F002, F003, and F005 were assigned to this subpopulation based on the characterization of incinerator feed materials. Based on the characterization of the feed, alcohols, glycols, halogenated solvents, and metals may have been introduced into the incinerator. Because the specific sources of the incinerator feed cannot be determined at this time, it has been assumed that the process could have accepted any of the combustible, plastic, or filter wastes currently contained in the inventory that were generated during the time the incinerator was operational.

A report was generated from the Backlog Waste Reassessment database that summarize the EPA codes assigned to inventory containers of combustibles (IDCs 330 and 336), plastics (337), and Ful-Flo filters (331) generated about the same time that the incinerator was operational. The following EPA codes were contained in the database for these wastes: D004-D011, D018, D019, D028, D029, D035, D038, F001, F002, F003, and F005. It was assumed that the F-listed solvents would have to be applied due to the "derived-from" rule. The codes for the D-listed metals were applied because these metals would be concentrated during incineration. However, it was assumed that the D-listed solvent would be volatilized and driven off in this process. Therefore, these solvents would not be present at levels exceeding Toxicity Characteristic Leaching Procedure (TCLP) limits due to the thermal treatment. This subpopulation is land disposal restricted due to the presence of RCRA metals. It is not land disposal restricted for F-listed solvents because the Best Demonstrated Available Technology (BDAT) (thermal treatment) was used to treat this waste. The EPA Code D002 has been applied, because any liquid in the waste matrix will exceed a pH of 12.5 due to the KOH. Additionally, process description and generator discussion indicates that there was no absorbent added to containers that would have absorbed the remaining liquids.

MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: The waste is packaged in 55-gallon drums with multiple bag liners. These are typically smaller containers within the drums.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W010	Handling:	CH	NMVP #:	None	Stream Name:	Aqueous Sludge/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3150

AS-GENERATED EPA CODES

F002, F001, D002, D001, F009, F007, F006, F005, F003, D011, D010, D009, D008, D007, D006, D005, D004

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	312.8	312.8	312.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	281.5	281.5	281.5
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	187.6	187.6	187.6
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	64.8		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

None

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.81E+00
Pu-240	1.18E-01
Pu-239	5.16E-01
Am-241	2.03E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

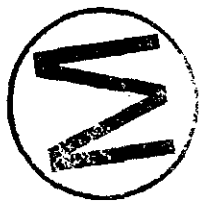
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	3.7	0.0	0.0	0.0	0.0	3.7
Totals	3.7	0.0	0.0	0.0	0.0	3.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.7	0.0	0.0	0.0	0.0	3.7
Totals	3.7	0.0	0.0	0.0	0.0	3.7

As-Generated Form: Stored: 3.7 Projected: 0.0 Total: 3.7

Final Waste Form: Stored: 3.7 Projected: 0.0 Total: 3.7



WASTE STREAM DESCRIPTION This waste stream is a solid cemented sludge. It could have small amounts of free liquids in the bottom of the container.

WASTE STREAM SOURCE Prior to 1979, IDC 001 consisted of sludge from the first-stage treatment only. When the first- and second-stage sludges were packaged separately, two vacuum filters were used. From 1979 to 1986, IDC 001 was a combination of the sludges from the first- and second-stage treatment processes. The sludge was produced chemically in the same fashion aqueous waste was treated to produce IDC 800 sludge. The solidification process for IDC 001 differs from the IDC 800 method of adding cement and diatomite as the sludge collects. Portland cement was added to the bottom of the IDC 001 drum prior to placing the sludge in the drum. In some cases additional Portland cement was added on top of the sludge. Re: Section 8.2.11. RFETS doesn't expect sulfates, phosphates >1% , but has no supporting data.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

According to the Building 774 Second-Stage Treatment Log (January 1981 to October 1989), prior to September 1984, the Building 774 aqueous waste treatment system received waste streams that are treated in the Building 374 Liquid Waste Treatment Facility. These streams affected the characterization of Building 774 solidified sludge until September 1985. The choice of the transition date of September 1984 is discussed in detail under the Subpopulation 55A discussion in the Backlog Baseline Book prepared by Rocky Flats.

Information contained in the November 1992 WSRIC Valve Vaults Book has been used to characterize waste streams treated in Building 774 prior to September 1984. The Valve Vaults book describes the process waste sent to Building 374 for treatment. The book was used because it is the only reference that provides detailed characterization information on waste that was sent to Building 774. Other references and interviews have been used to enhance or add to this information as it relates to the waste form.

In addition to the pipeline-transferred waste, wastes in containers compatible with the first- and second-stage treatment processes, were treated in Building 774. Some of these wastes exhibited hazardous characteristics. However, the EPA codes applicable to these wastes did not include additional codes that were different from those cited for pipeline-transferred wastes.

There may be other hazardous wastes that were treated in Building 774 during the 1970s that are no longer generated at Rocky Flats. For example, experimental decontamination solvents for the 1969 fire cleanup and effluent from the washing metal and gloves in Size Reduction were generated. No records were found specifying the wastes treated in this time frame.

Wastes sent to Building 774 exhibited the characteristics of ignitability (D001) and corrosivity (D002). However, the characteristic of ignitability, as defined in 40 CFR 261.21, does not apply to any of the Building 774 aqueous sludge subpopulations because they are not liquids, gases, or oxidizers. The characteristic of corrosivity (D002) as defined in 40 CFR 261.22 does not apply because the final waste form is solid. WEMS does not indicate any containers have been rejected for free liquids. The generator has, however, assigned D001 and/or D002 to specific containers. These characterizations are to be reviewed in CY 1995.

Wastes sent to Building 774 were intermittently contaminated with Resource Conservation and Recovery Act (RCRA) metals (EPA Codes D004-D011). Under the "derived from" rule, if a characteristic waste is treated, the final waste form is only a characteristic waste if it continues to exhibit the characteristic. A feed tank to the Building 774 aqueous sludge process, Tank 40, was sampled in 1994. However, one sample is not considered to be representative of the aqueous sludge population. Consequently, it will be assumed that Building 774 aqueous sludge generated prior to September 1985 exhibits the characteristic of toxicity for all of the RCRA metals (EPA Codes D004-D011) until TCLP analysis of the waste under EPA SW-846 proves the waste does not exceed toxicity characteristic criteria.

Based on the "mixture" rule and the "derived from" rule, Building 774 aqueous sludge would carry the listed EPA codes associated with wastes sent to Building 774 for treatment. The EPA Codes F001, F002, F003, and F005 are assigned to Building 774 aqueous sludge generated prior to September 1985 because wastes sent to Building 774 were contaminated with regulated spent solvents in the past. Headspace analyses detected F001, F002, F003, and F005 constituents at high levels. Building 774 aqueous sludge generated prior to September 1985 will not be considered as meeting F001, F002, F003 and F005 Land Disposal Restrictions (LDR) treatment standards until sampling and analysis proves otherwise. Total analysis of the waste under EPA SW-846 is required.

The EPA codes F006, F007, and F009 are assigned to Building 774 aqueous sludge generated prior to September 1985. Building 774 received wastewaters contaminated with waste from electroplating operations in the past. Analytical results from a feed tank sample in 1994 are insufficient to determine the regulatory status of Building 774 aqueous sludge generated prior to September 1985. TCLP analysis of the waste under EPA SW-846 is required for the determination.

P- and U-listed EPA codes for discarded commercial chemical products will not be assigned to Building 774 aqueous sludge. Excess chemicals are stored on the plant site. However, there is no documentation supporting P- and U-listed waste codes for specific chemicals that were disposed of in process waste.

After August 1984, the Building 774 aqueous waste treatment system received only waste streams from Buildings 771 and 774. Closure, decontamination, or cleaning of the Building 774 treatment system did not occur. However, considering the flow rates through the system and the system volume, it is estimated that the first- and second-stage system volumes were turned over 60 and 12 times a year, respectively. After one year of flushing, it can be assumed that no previous waste resided in the system, so the "old" waste codes can be eliminated from the sludge.
Information contained in the WSRIC Building 771 Book and the WSRIC Building 774 Book was used to characterize waste streams treated in Building 774. Other references and interviews were used to enhance or add to this information as it relates to the waste form.

In addition to the pipeline-transferred waste, wastes in containers that were compatible with the first- and second-stage treatment processes were treated in Building 774. Some of the wastes in containers exhibited hazardous characteristics. However, the EPA codes applicable to these wastes did not include additional codes that were different from those cited for pipeline transferred wastes.

EPA Codes D001 and D002 are not assigned to this subpopulation. P-and U-listed waste codes are also not assigned. The characterization rationale for previously generated waste is the same regarding these waste codes. The rationale is presented under the Subpopulation 55A discussion.

Wastes sent to Building 774 after August 1984 were intermittently contaminated with cadmium (D006), chromium (D007), and silver (D011). It is assumed that Building 774 aqueous sludge generated after August 1985 exhibits the characteristic of toxicity for these metals. EPA Codes D006, D007, and D011 are assigned to this waste following the rationale presented for RCRA metals under the Subpopulation 55A discussion.

EPA codes for RCRA organics are not applicable to Building 774 aqueous sludge generated after August 1985. After August 1984, Building 774 no longer received wastes contaminated with RCRA organics. Analytical results from aqueous sludge samples are limited. One sample was analyzed for volatile organic constituents in 1988. The F001, F002, F003, and F005 LDR treatment standards and toxicity characteristic limits were not exceeded for the detected contaminants. No Quality Control information on the sample analysis is available. It is uncertain if the organic compounds are actually in the sludge or are a result of sample or lab contamination.

Validated headspace analyses performed on drums containing aqueous sludge are also considered in the characteristic of the waste. It is not known how headspace gas constituent levels related to the actual composition of the waste. However, using a partitioning coefficient model designed for environmental media, calculations were performed on headspace analytical results to estimate organic levels in the sludge. The highest organic levels of detected toxicity characteristic constituents from headspace analysis were used in the calculation of waste contaminant levels.

The analytical results from an aqueous sludge sample in 1988 and calculated constituent levels from headspace analytical results both indicate that the waste is below toxicity characteristic criteria for RCRA organics.

The EPA Codes F001, F002, F003, and F005 are not applicable to Building 774 aqueous sludge generated after August 1985. Listed wastes ceased being treated in Building 774 in August 1984. Extensive research was performed by Waste Technical Support to determine if organic and aqueous lab solutions sent to Building 771 for plutonium recovery were treated in Building 774. The research concluded the organic phase was removed by the generating laboratory prior to shipment to Building 771. If the organic phase contained a listed solvent, the separated aqueous phase is not listed waste under the "mixture" rule.

The trace levels of volatile organics found in the sludge in 1988 can be discounted due to the very low levels detected and the lack of quality control data available for the analysis. The headspace analysis for sludge produced after August 1985 shows slight levels of some volatile organics, but the levels are an order of magnitude lower than pre-August 1985 samples. It is not known how the headspace gas analysis relates to the actual composition of the waste. However, there is good process knowledge that no spent solvents were sent to the Building 774 aqueous waste process after August 1984, so a listed EPA waste code cannot be applied to aqueous

	sludge generated after a year of flushing. Sludge from Building 374 is assigned F039 because Interceptor Trench System water (leachate) reports to this sludge.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP has assumed this waste to be LDR based on process knowledge characterization and limited analytical data. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Basis for determining LDR storage prohibition status is based pirmarily on process knowledge. WASTE_ PACK: Waste is packaged in 55 gallon DOT 7A Type A Drums. The drums are lined with one rigid polyethylene liner and two bag liners.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W013	Handling:	CH	NMVP #:	N/A	Stream Name:	Solidified Organics/TRM	Inventory Date:	10/20/94
Local ID:	IDC 801	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Organics	Waste Matrix Code:	S3222

AS-GENERATED EPA CODES

F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	615.9	229.0	858.4
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	64.8		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.56E+01
Pu-240	1.08E-01
Pu-239	4.70E-01
Am-241	2.65E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 0.6 Projected: 0.0 Total: 0.6

WASTE STREAM DESCRIPTION

This waste stream consists of a cemented solid, with some free liquids. It can also have some small chunks in it.

WASTE STREAM SOURCE

Solidified organics are cemented waste oils and solvents that were generated as a result of machining and tool degreasing. Waste oil was transferred primarily from Buildings 707 and 777. Cementation was performed in Waste Management Unit (WMU) 56, Room 210, Building 774. The earliest generation date for the backlog inventory is June 1984. The Organic and Sludge Immobilization System (OASIS) Process generating solidified organics stopped in January 1990. These containers are assigned IDC 0003 and 0801.

Solidified organics waste currently stored at Rocky Flats was generated by the Grease Plant Process or the OASIS Process. The Grease Plant Process operated until November 1985. The OASIS Process began operating in November 1985. The last OASIS runs occurred in 1991.

Tanks T-1 and T-2, Tank T-374A, and Tanks T-13 and T-14 have all received waste oils and solvents for treatment at various times. The waste oils and solvents were generated primarily by processes in Buildings 707 and 777. Solvent-contaminated waste oils were generated by plutonium machining and tool degreasing. Ultrasonic cleaners consisting of trichloroethane baths were used to clean parts. Buildings 707 and 777 also cleaned metal turnings and scrap in carbon tetrachloride baths before forming them into briquettes.

Laboratory wastes in bottles were poured into containers of solidified organics in the past. Laboratory waste contaminants included organophosphates and nitrobenzene. According to the generator, bottled laboratory wastes were poured into five or fewer solidified organics containers. However, there is no documentation specifying the individual drums.

The majority of wastes fed to the solidified organics generation processes consisted of plutonium-contaminated oils and solvents. A cutting oil, usually Texaco Regal "A," flowed onto a part during machining. After machining, the part was rinsed to remove residual oil. Various solvents were used to rinse machined parts and degrease tools. These included trichloroethylene and tetrachloroethylene. According to the generator, trichloroethylene and tetrachloroethylene use stopped in 1973.

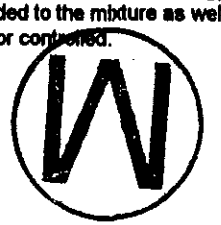
Spent carbon tetrachloride and trichloroethane from cleaning baths were also fed to the solidified organics generation processes. Parts for assembly from Buildings 707 and 777 were cleaned in ultrasonic wash tanks before welding. The tanks contained 15 gallons of trichloroethane. In another cleaning process, metal turnings and scraps were placed into perforated metal baskets and dipped into a series of tanks containing carbon tetrachloride. Each of the steel tanks held 4 gallons of solvent. The cleaned metal was then formed into briquettes. Carbon tetrachloride and trichloroethane baths were replaced periodically.

Waste oil and solvents were drained and pumped into storage tanks. The wastes were then filtered to recover the actinides. After filtering, the plutonium and uranium concentrations in the waste were measured. If the concentrations were above specified transfer limits, the waste was refiltered in the Ful-Flo filtration system. When the concentrations of plutonium and uranium were below transfer limits, the waste was transferred to the solidified organics generation processes in Building 774.

Tanks T-1 and T-2, Tank T-374A, and Tanks T-13 and T-14 received waste oils from the same processes in Buildings 707 and 777. Tanks T-1 and T-2 fed waste oils to the Grease Plant Process and the OASIS Process. Tank T-374A began feeding waste oils to the OASIS Process after damage to Tanks T-1 and T-2 was identified and they were removed from operation. Tanks T-13 and T-14 began feeding waste oils after Tank T-374A. Tanks T-374A, T-13, and T-14 were used simultaneously until Tank T-374A was removed from operation. Tanks T-13 and T-14 continued feeding the OASIS Process until it stopped in January 1990.

In the Grease Plant Process, waste oil and Microcel E (calcium silicate) were fed separately into a continuous mixer. Small amounts of Oil Dri were sometimes added to the mixture as well. The amounts of materials added to the mixture were not metered. However, the operator would adjust the composition if the outgoing mixture did not have a paste-like consistency. The mixture would then drop into an O-ring bag contained in a 55-gallon drum. Drums of solidified organics from the Grease Plant Process were subsequently transported to the Size Reduction Facility in Building 776 for inspection and sealing.

OASIS was a batch-type process generating one drum per run. Waste oils were pumped into an O-ring bag contained in a 55-gallon drum attached to the bottom of the OASIS glovebox. Envirostone emulsifier, gypsum cement, and accelerator were also metered into the bag. House water, which had not been used in any other processes, was added to the mixture as well. A Lightning Mixer was lowered into the drum after all of the materials were added. The amount of materials added to the mixture was operator controlled.



The drums were transferred to WMU 73, Room 241, after they had been inspected and sealed. Solidified organics containers from the OASIS process were stored in Building 774 until they were transferred to Building 371 for nondestructive assay (NDA). After RTR, drums were usually sent to Building 664, where they were stored until shipment off site. Solidified organics waste is not being shipped at this time. Consequently, Building 664 has reached capacity and solidified organics are also being stored in Buildings 371, 569, 774, and 776.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

Solidified organics were generated by the OASIS process after November 11, 1985.

Analytical information regarding solidified organics was not found in the WSRIC Sampling and Analysis database. However, non-WSRIC analytical data from 1988 and 1989 are considered in the characterization of the waste. The analytical method was not specified for the results. However, Toxicity Characteristic Leaching Procedure (TCLP) analysis was not typically performed in 1988 and 1989. The results are assumed to be from Totals analysis. Validated headpsace analysis performed on drums containing solidified organics are considered as well. Headspace analytical results support the 1988 and 1989 results from sampling and analysis.

Wastes received by Tanks T-1 and T-2, T-374A, and T-13 and T-14 were intermittently contaminated with Resource Conservation and Recovery Act (RCRA) organics. Carbon tetrachloride (D019), nitrobenzene (D036), and trichloroethylene (D040) were cited contaminants. Nitrobenzene was a contaminant in nonroutine laboratory waste and was introduced into five or fewer drums. Contaminated drums could be not be identified. However, the solidified organics population, as a whole, does not exhibit the toxicity characteristic for nitrobenzene.

Sampling and analysis of three solidified organics samples in 1988 and 1989 indicated the waste exceeded toxicity characteristic criteria for carbon tetrachloride (EPA Code D019). The waste did not exceed toxicity characteristic criteria for any of the other cited RCRA organics. TCLP analysis of the waste under EPA SW-846 is required to support the analytical results and confirm the assumptions.

Based on the "mixture" rule and the "derived-from" rule, solidified organics would carry the listed EPA codes associated with the wastes fed to the solidified organics generation processes. EPA Codes F001 and F002 are assigned to all solidified organics because wastes received by Tanks T-1 and T-2, T-374A, and T-13 and T-14 were contaminated with regulated spent solvents in the past.

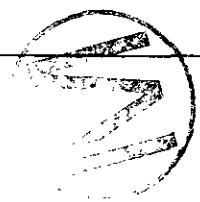
Sampling and analysis of solidified organics waste in 1988 and 1989 indicated the waste exceeded the F001 and F002 LDR treatment standards for carbon tetrachloride and 1,1,1-trichloroethane. The analyses found detectable concentrations of other F001 and F002 constituents, as well. Total analysis of the waste under EPA SW-846 is required to confirm these results.

Based on the "mixture" rule and the "derived from" rule, solidified organics would carry the listed EPA codes associated with wastes set to Building 774 for treatment. The EPA Codes F001, F002, F003, and F005 are assigned because wastes set to Building 774 were contaminated with regulated spent solvents in the past. Headspace analyses detected F001, F002, F003, and F005 constituents at elevated levels. Solidified organics will not be considered as meeting F001, F002, F003, and F005 Land Disposal restrictions (LDR) treatment standards until sampling and analysis proves otherwise. Total analysis of the waste under EPA SE-846 is required.

The EPA Codes F006, F007, and F009 are assigned because of contamination with waste from electroplating operations.

P- and U-listed EPA codes for discarded commercial chemical products will not be assigned to solidified organics. Excess chemicals are stored on the plant site. However, there is no documentation supporting P- and U-listed waste codes for specific chemicals that were disposed of in process waste. Cited laboratory chemicals like nitrobenzene were used for their intended purpose as reagents and were not discarded commercial chemical products.

MANAGEMENT COMMENTS N/A



ACCEPTANCE COMMENTS	RFP has assumed this waste to be LDR based on process knowledge characterization, and one sample analyzed for volatiles in 1988. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. The waste is stored in 55-gallon carbon steel drums with a rigid polyethylene liner and one or two bag liners.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W010	Handling:	CH	NMVP #:	None	Stream Name:	Bypass Sludge Bldg 374/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3150

AS-GENERATED EPA CODES

F002, F001, F005, F039, F009, F007, F006, F003, D010, D007

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	217.7	217.7	217.7
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	196.0	196.0	196.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	130.6	130.6	130.6
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	64.8		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

None

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.81E+00
Pu-240	1.18E-01
Pu-239	5.16E-01
Am-241	2.03E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

As-Generated Form: Stored: 0.8 Projected: 0.0 Total: 0.8

Final Waste Form: Stored: 0.8 Projected: 0.0 Total: 0.8

WASTE STREAM DESCRIPTION

This waste stream is a solid cemented sludge. It could have small amounts of free liquids in the bottom of the container.

WASTE STREAM SOURCE

Prior to 1979, IDC 001 consisted of sludge from the first-stage treatment only. When the first- and second-stage sludges were packaged separately, two vacuum filters were used. From 1979 to 1986, IDC 001 was a combination of the sludges from the first- and second-stage treatment processes. The sludge was produced chemically in the same fashion aqueous waste was treated to produce IDC 800 sludge. The solidification process for IDC 001 differs from the IDC 800 method of adding cement and diatomite as the sludge collects. Portland cement was added to the bottom of the IDC 001 drum prior to placing the sludge in the drum. In some cases additional Portland cement was added on top of the sludge.

Re: Section 8.2.11, RFETS doesn't expect sulfates, phosphates >1 wt%, but has no supporting data.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

According to the Building 774 Second-Stage Treatment Log (January 1981 to October 1989), prior to September 1984, the Building 774 aqueous waste treatment system received waste streams that are treated in the Building 374 Liquid Waste Treatment Facility. These streams affected the characterization of Building 774 solidified sludge until September 1985. The choice of the transition date of September 1984 is discussed in detail under the Subpopulation 55A discussion in the Backlog Baseline Book prepared by Rocky Flats.

Information contained in the November 1992 WSRIC Valve Vaults Book has been used to characterize waste streams treated in Building 774 prior to September 1984. The Valve Vaults book describes the process waste sent to Building 374 for treatment. The book was used because it is the only reference that provides detailed characterization information on waste that was sent to Building 774. Other references and interviews have been used to enhance or add to this information as it relates to the waste form.

In addition to the pipeline-transferred waste, wastes in containers compatible with the first- and second-stage treatment processes, were treated in Building 774. Some of these wastes exhibited hazardous characteristics. However, the EPA codes applicable to these wastes did not include additional codes that were different from those cited for pipeline-transferred wastes.

There may be other hazardous wastes that were treated in Building 774 during the 1970s that are no longer generated at Rocky Flats. For example, experimental decontamination solvents for the 1969 fire cleanup and effluent from the washing metal and gloves in Size Reduction were generated. No records were found specifying the wastes treated in this time frame.

Wastes sent to Building 774 exhibited the characteristics of ignitability (D001) and corrosivity (D002). However, the characteristic of ignitability, as defined in 40 CFR 261.21, does not apply to any of the Building 774 aqueous sludge subpopulations because they are not liquids, gases, or oxidizers. The characteristic of corrosivity (D002) as defined in 40 CFR 261.22 does not apply because the final waste form is solid. WEMS does not indicate any containers have been rejected for free liquids. The generator has, however, assigned D001 and/or D002 to specific containers. These characterizations are to be reviewed in CY 1995.

Wastes sent to Building 774 were intermittently contaminated with Resource Conservation and Recovery Act (RCRA) metals (EPA Codes D004-D011). Under the "derived from" rule, if a characteristic waste is treated, the final waste form is only a characteristic waste if it continues to exhibit the characteristic. A feed tank to the Building 774 aqueous sludge process, Tank 40, was sampled in 1994. However, one sample is not considered to be representative of the aqueous sludge population. Consequently, it will be assumed that Building 774 aqueous sludge generated prior to September 1985 exhibits the characteristic of toxicity for all of the RCRA metals (EPA Codes D004-D011) until TCLP analysis of the waste under EPA SW-846 proves the waste does not exceed toxicity characteristic criteria.

Based on the "mixture" rule and the "derived from" rule, Building 774 aqueous sludge would carry the listed EPA codes associated with wastes sent to Building 774 for treatment. The EPA Codes F001, F002, F003, and F005 are assigned to Building 774 aqueous sludge generated prior to September 1985 because wastes sent to Building 774 were contaminated with regulated spent solvents in the past. Headspace analyses detected F001, F002, F003, and F005 constituents at high levels. Building 774 aqueous sludge generated prior to September 1985 will not be considered as meeting F001, F002, F003 and F005 Land Disposal Restrictions (LDR)

treatment standards until sampling and analysis proves otherwise. Total analysis of the waste under EPA SW-846 is required.

The EPA codes F006, F007, and F009 are assigned to Building 774 aqueous sludge generated prior to September 1985. Building 774 received wastewaters contaminated with waste from electroplating operations in the past. Analytical results from a feed tank sample in 1994 are insufficient to determine the regulatory status of Building 774 aqueous sludge generated prior to September 1985. TCLP analysis of the waste under EPA SW-846 is required for the determination.

P- and U-listed EPA codes for discarded commercial chemical products will not be assigned to Building 774 aqueous sludge. Excess chemicals are stored on the plant site. However, there is no documentation supporting P- and U-listed waste codes for specific chemicals that were disposed of in process waste.

After August 1984, the Building 774 aqueous waste treatment system received only waste streams from Buildings 771 and 774. Closure, decontamination, or cleaning of the Building 774 treatment system did not occur. However, considering the flow rates through the system and the system volume, it is estimated that the first- and second-stage system volumes were turned over 60 and 12 times a year, respectively. After one year of flushing, it can be assumed that no previous waste resided in the system, so the "old" waste codes can be eliminated from the sludge.
Information contained in the WSRIC Building 771 Book and the WSRIC Building 774 Book was used to characterize waste streams treated in Building 774. Other references and interviews were used to enhance or add to this information as it relates to the waste form.

In addition to the pipeline-transferred waste, wastes in containers that were compatible with the first- and second-stage treatment processes were treated in Building 774. Some of the wastes in containers exhibited hazardous characteristics. However, the EPA codes applicable to these wastes did not include additional codes that were different from those cited for pipeline transferred wastes.

EPA Codes D001 and D002 are not assigned to this subpopulation. P-and U-listed waste codes are also not assigned. The characterization rationale for previously generated waste is the same regarding these waste codes. The rationale is presented under the Subpopulation 55A discussion.

Wastes sent to Building 774 after August 1984 were intermittently contaminated with cadmium (D006), chromium (D007), and silver (D011). It is assumed that Building 774 aqueous sludge generated after August 1985 exhibits the characteristic of toxicity for these metals. EPA Codes D006, D007, and D011 are assigned to this waste following the rationale presented for RCRA metals under the Subpopulation 55A discussion.

EPA codes for RCRA organics are not applicable to Building 774 aqueous sludge generated after August 1985. After August 1984, Building 774 no longer received wastes contaminated with RCRA organics. Analytical results from aqueous sludge samples are limited. One sample was analyzed for volatile organic constituents in 1988. The F001, F002, F003, and F005 LDR treatment standards and toxicity characteristic limits were not exceeded for the detected contaminants. No Quality Control information on the sample analysis is available. It is uncertain if the organic compounds are actually in the sludge or are a result of sample or lab contamination.

Validated headspace analyses performed on drums containing aqueous sludge are also considered in the characteristic of the waste. It is not known how headspace gas constituent levels related to the actual composition of the waste. However, using a partitioning coefficient model designed for environmental media, calculations were performed on headspace analytical results to estimate organic levels in the sludge. The highest organic levels of detected toxicity characteristic constituents from headspace analysis were used in the calculation of waste contaminant levels.

The analytical results from an aqueous sludge sample in 1988 and calculated constituent levels from headspace analytical results both indicate that the waste is below toxicity characteristic criteria for RCRA organics.

The EPA Codes F001, F002, F003, and F005 are not applicable to Building 774 aqueous sludge generated after August 1985. Listed wastes ceased being treated in Building 774 in August 1984. Extensive research was performed by Waste Technical Support to determine if organic and aqueous lab solutions sent to Building 771 for plutonium recovery were treated in Building 774. The research concluded the organic phase was removed by the generating laboratory prior to shipment to Building 771. If the organic phase contained a listed solvent, the separated aqueous phase is not listed waste under the "mixture" rule.

The trace levels of volatile organics found in the sludge in 1988 can be discounted due to the very low levels detected and the lack of quality control data available for the analysis. The headspace analysis for sludge produced after August 1985 shows slight levels of some volatile organics, but the levels are an order of magnitude lower

	than pre-August 1985 samples. It is not known how the headspace gas analysis relates to the actual composition of the waste. However, there is good process knowledge that no spent solvents were sent to the Building 774 aqueous waste process after August 1984, so a listed EPA waste code cannot be applied to aqueous sludge generated after a year of flushing. Sludge from Building 374 is assigned F039 because Interceptor Trench System water (leachate) reports to this sludge.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP has assumed this waste to be LDR based on process knowledge characterization and limited analytical data. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Basis for determining LDR storage prohibition status is based pirmarily on process knowledge. WASTE_ PACK: Waste is packaged in 55 gallon DOT 7A Type A Drums. The drums are lined with one rigid polyethylene liner and two bag liners.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W037	Handling:	CH	NMVP #:	RF 117	Stream Name:	Heavy Metal (non-SS)/TRM	Inventory Date:	10/20/94
Local ID:	IDC 320	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5112

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	60.5	0.0	168.7
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	141.0	29.0	393.3
Other Inorganic Material:	14.0	2.9	39.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

RF 117

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.14E+02
Pu-240	4.79E+00
Pu-239	2.09E+01
Am-241	2.59E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	1.5	0.0	0.0	8.7	10.8	21.0
Totals	1.5	0.0	0.0	8.7	10.8	21.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.5	0.0	0.0	8.7	10.8	21.0
Totals	1.5	0.0	0.0	8.7	10.8	21.0

As-Generated Form: Stored: 1.5 Projected: 19.6 Total: 21.0

Final Waste Form: Stored: 1.5 Projected: 19.6 Total: 21.0

WASTE STREAM DESCRIPTION	IDC 320 - Scrap metals which are heavier than iron and steel. Metal above Cu on the periodic table. Mainly used tantalum crucibles. Does not include lead.
WASTE STREAM SOURCE	Heavy metals have been produced as by-products of Rocky Flats operations in Buildings 371, 707, 771, 776, 777, 779, and 865; they are identified by IDC 320. The IDC 320 heavy nonspecial source metal was generated in various locations throughout the Rocky Flats and is stored in Resource Conservation and Recovery Act (RCRA) Units 11, 12, 13, 15A, and 20. This IDC includes nonstainless-steel metals that are heavier than iron. Examples of this waste include crucibles, funnels, rods, and process fixtures. These items are made primarily from tantalum, tungsten, and platinum, but some parts could have been manufactured or contaminated with lead if the accumulation start date was prior to 1987. IDC 320 originally included lead. During maintenance operations, the maintenance shop in Building 371 generated heavy metal vessels, instruments, rods, and plates fabricated from tantalum, tungsten, and platinum. The shop generated these items during 4 1/2 years of operation from 1983 until 1988. Of these containers in storage, 19 backlog containers have an EPA Code of D008 (lead); eight of these were produced after 1987. Building 707, Modules A and J, generated heavy metals in its foundry operations. These heavy metals were primarily crucibles and pans used for presampling. These processes generated material during 6 1/2 years of operation from 1985 until 1991. Nine backlog containers have an EPA Code of D008 (lead). The plutonium recovery operations in Building 771 generated leached Oralloy parts consisting of tantalum, tungsten, and platinum. The system generated material during 3 years of operation from 1987 until 1990. Five backlog containers have an EPA Code of D008 (lead); four of these backlog containers were produced after 1987. Building 776, Pyrochemical Processing, generated material during almost three years of operation from 1988 until 1990. This material consists primarily of tantalum crucibles, stirrers, and cans from MSE, salt scrub, and anode heel processes. Eight containers have an EPA Code of D008 (lead). Building 777, the Coatings Laboratory, generated material during a 2-year period of operation from 1988 until 1990. This material consists primarily of various heavy metals used in the research and development of coating technologies. These backlog containers have been associated with lead as a constituent and were produced after 1987. The Residue Treatment Technology Group, Building 779, generated crucibles, stirrers, and other general lab equipment derived from tantalum and tungsten. In Building 779, the Physical Metallurgy Group generated tantalum materials used in casting and cast testing. Additionally, the Surface Analysis Laboratory in Building 779 generated heavy metal samples primarily of depleted uranium (D-38). IDC 320 material was produced by Building 779 operations over a 10-year period from 1981 until 1991. Nine backlog containers have an EPA Code of D008 (lead), six were produced after 1987.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	One subpopulation (25A) was identified based on specific process knowledge and generation date. The EPA Code D008 was assigned to this subpopulation because of contact with known lead products and process association. This subpopulation consists of containers produced before or during 1987. The WEMS database lists the EPA Code D008 for these containers. Because of the generation date, a conservative position has been taken by placing backlog drums with the D008 (lead) EPA Code in this subpopulation. The primary buildings of generation were 371, 707, 771, 776, 779. Subpopulation 25B was identified based on specific process knowledge and generation date. At this time, the generation date has been used judiciously in separating and characterizing containers with lead. The EPA Code D008 was assigned to this subpopulation because of contact with known lead products and process association. This subpopulation consists of containers produced before or during 1987. The WEMS database lists the EPA Code D008 for these containers. Because of the generation date, a conservative position has been taken by placing backlog drums with the D008 (lead) EPA Code in this subpopulation. The primary buildings of generation were 371, 707, 771, 776, and 779.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. Future generation is projected beyond 1999.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W028	Handling:	CH	NMVP #:	RF 117	Stream Name:	Lead/TRM	Inventory Date:	10/20/94
Local ID:	IDC 321	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Lead/Cadmium Metal Waste	Waste Matrix Code:	X7211

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	668.3	16.2	1438.1
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

RF 117

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	3.05E+00
Pu-240	1.28E-01
Pu-239	5.60E-01
Am-241	1.86E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	3.7	0.9	1.4	2.8	2.8	11.7
Totals	3.7	0.9	1.4	2.8	2.8	11.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.7	0.9	1.4	2.8	2.8	11.7
Totals	3.7	0.9	1.4	2.8	2.8	11.7

As-Generated Form: Stored: 3.7 Projected: 7.9 Total: 11.6

Final Waste Form: Stored: 3.7 Projected: 7.9 Total: 11.6

WASTE STREAM DESCRIPTION

This waste form consists of metallic lead in the form of sheets, bricks, or tape.

Physical form: solid

Currently, no analytical data for lead waste is available. Process knowledge is the basis for characterization of this waste form. Lead waste (IDC 321) from non-specific sources is believed to have only lead (D008) as a hazardous constituent. In numerous tests of elemental lead, EP toxicity values exceed those listed in Table 1, 40 CFR 261.24. It is assumed that IDC 321 would also exceed EP toxicity limits for lead.

WASTE STREAM SOURCE

Transuranic lead was generated at a number of locations throughout Rocky Flats and includes IDC 321. The as-low-as-reasonably- achievable (ALARA) principle requires that the exposure of workers to radiation be kept "as low as reasonable achievable." In support of this principle, selected components and surfaces of gloveboxes enclosing materials that generate elevated levels of penetrating radiation (primarily gamma radiation) are commonly covered with metallic lead sheeting. The lead serves to attenuate the radiation dose received by employees working in the glovebox or in proximity to the glovebox. Lead waste (IDC 321) components are generally composed of lead bricks, lead shielding, and lead tape.

The lead or lead-covered components may become waste due to replacement, modification, or decommissioning activities. The dates of generation for IDC 321 range from August 15, 1986 to March 1, 1994.

The lead waste form is not a by-product of any process routinely performed at Rocky Flats. According to WSRIC Building Books, lead is most commonly generated as a result of maintenance activities. The lead waste is generally composed of lead shielding, scrap lead metal, and lead tape. The lead waste is collected in standard waste drums. The lead waste form was generated in Buildings 371, 559, 707, 771, 776, 777, and 779.

This stream is generated from Facility Operations, Analytical Laboratories, and R&D Laboratories.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

Drums Containing Scrap Lead Metal and Lead Shielding

Scrap lead metal and lead shielding exhibit the characteristic of toxicity for lead (D008). Subpopulation 8A was identified based on specific process knowledge and analytical results from elemental lead waste. According to WEMS, WSRIC, drums reports, and internal correspondence, the waste primarily consists of lead bricks, lead shielding, and scrap lead metal. Although some of waste could have come in contact with solvents, it is not considered to be a listed waste if the metal was wiped down with solvents for decontamination or paint stripping purposes, or if it was generated by the decommissioning of gloveboxes or other container-like apparatuses. Additional EPA codes are assigned to the waste based on process knowledge.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS

RFP has determined this waste form to be LDR waste based on process knowledge available for TRU lead waste (IDC 321) and the fact that elemental lead exceeds values for EP toxicity pursuant to 40 CFR 261 24. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: This waste is packaged in 55-gallon drums lined with a fiberboard liner and two polyethylene bag liners.

FINAL FORM COMMENTS N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W012	Handling: CH	NMVP #: None	Stream Name: Combustibles, dry/TRM		Inventory Date: 10/20/94
Local ID: None	Type: MTRU	Generator Site: RF	Final Waste Form: Combustible		Waste Matrix Code: S5390

AS-GENERATED EPA CODES

F002, D008, D007, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

None

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	5.17E+00
Pu-240	2.17E-01
Pu-239	9.49E-01
Am-241	7.34E-01

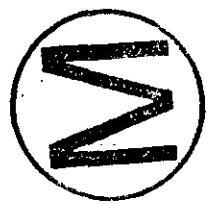
WASTE VOLUME DETAIL (cu. meters)

Container	As-Generated Waste Form Volumes: Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Container	Final Waste Form Volumes: Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0



WASTE STREAM DESCRIPTION	This waste consits of rags, paper, cloth, coveralls, plastic, rubber, and wood. The waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills. The bulk of these wastes are packaged in 55-gallon drums with one rigid polyethylene liner and several bag liners. In addition, the waste may be packaged in DOT 7A Type A metal boxes which are lined with a fiberboard liner and a PVC liner or standard TRUPACT-II container. The containers are then assayed and transferred to interim status storage areas. These wastes have been shipped to the INEL for stroage in the past. RF-330, 356, 337, 821, 822, 853, 831, 832, 833. Predominantly combustible debris.
WASTE STREAM SOURCE	IDC 330 is Dry Combustibles. This IDC is dry combustibles such as cloth, paper, and wood. This IDC changes to 821, 831, 851, or 861 at the point of assay, depending on radiological content. Containers of IDC 330 currently in inventory were generated in all buildings handling fissile material. This stream is generated from Facility Operation, Analytical Laboratories, R&D Laboratories, and Spill Cleanups. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt. %, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	A- Process knowledge based upon general knowledge of waste type or source (e.g., there is some probability of a waste constituent being absent or present). Bounding analytical data have not been compiled in a form that is compatible with this report. This effort has been completed and the results are available in the Final Backlog Baseline Book dated September 26, 1994.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	GENERAAREA: Numerous locations throughout RFP.GENOPERATI: RECLASS_CO: Rocky Flats assays wastes to determine waste type instead of relying on process knowledge or historical data. For this reason, the potential for reclassification has not been analyzed.CATION: Not applicable OTHER_CHAR: No information available. RFP has assumed this waste to be LDR based on process knowledge characterization, and one sample analyzed for volatiles in 1988. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its genration date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. Analytical data are limited. WASTE_PACK: This waste is stored in 55 gallon carbon steel drums with one rigid polyethylene liner and several bag liners and standard metal boxes.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W012 | Handling: CH | NMVP #: None | Stream Name: Combustibles/TRM | Inventory Date: 10/20/94
Local ID: None | Type: MTRU | Generator Site: RF | Final Waste Form: Combustible | Waste Matrix Code: S5390

AS-GENERATED EPA CODES

F002, F001, D019, D011, D008, D007

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

None

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	5.17E+00
Pu-240	2.17E-01
Pu-239	9.49E-01
Am-241	7.34E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	1.0	0.0	0.0	0.0	0.0	1.0
Totals	1.0	0.0	0.0	0.0	0.0	1.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 1.0 Projected: 0.0 Total: 1.0

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste consits of rags, paper, cloth, coveralls, plastic, rubber, and wood. The waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills. The bulk of these wastes are packaged in 55-gallon drums with one rigid polyethylene liner and several bag liners. In addition, the waste may be packaged in DOT 7A Type A metal boxes which are lined with a fiberboard liner and a PVC liner or standard TRUPACT-II container. The containers are then assayed and transferred to interim status storage areas. These wastes have been shipped to the INEL for stroage in the past. RF-330, 356, 337, 821, 822, 853, 831, 832, 833. Predominantly combustible debris.
WASTE STREAM SOURCE	Wet combustibles are paper, cloth, etc., which contain a discernible amount of moisture and must be drained or wrung out prior to packaging to prevent an accumulation of free liquid. This IDC changes to 822, 832, 852, or 862 at the point of assay. This stream is generated from Facility Operation, Analytical Laboratories, R&D Laboratories, and Spill Cleanups. RE: Section 6.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt. %, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	A- Process knowledge based upon general knowledge of waste type or source (e.g., there is some probability of a waste constituent being absent or present). Bounding analytical data have not been compiled in a form that is compatible with this report. This effort has been completed and the results are available in the Final Backlog Baseline Book dated September 26, 1994.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	GENERAAREA: Numerous locations throughout RFP.GENOPERATI: RECLASS_CO: Rocky Flats assays wastes to determine waste type instead of relying on process knowledge or historical data. For this reason, the potential for reclassification has not been analyzed.CATION: Not applicable OTHER_CHAR: No information available. RFP has assumed this waste to be LDR based on process knowledge characterization, and one sample analyzed for volatiles in 1988. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its genration date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. Analytical data are limited. WASTE_PACK: This waste is stored in 55 gallon carbon steel drums with one rigid polyethylene liner and several bag liners and standard metal boxes.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W012	Handling:	CH	NMVP #:	None	Stream Name:	Combustibles/TRM
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible

Inventory Date: 10/20/94

Waste Matrix Code: S5390

AS-GENERATED EPA CODES

F002, F001, D019, D011, D007, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

None

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	5.17E+00
Pu-240	2.17E-01
Pu-239	9.49E-01
Am-241	7.34E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	1.0	0.0	0.0	0.0	0.0	1.0
Totals	1.0	0.0	0.0	0.0	0.0	1.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 1.0 Projected: 0.0 Total: 1.0

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste consits of rags, paper, cloth, coveralls, plastic, rubber, and wood. The waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills. The bulk of these wastes are packaged in 55-gallon drums with one rigid polyethylene liner and several bag liners. In addition, the waste may be packaged in DOT 7A Type A metal boxes which are lined with a fiberboard liner and a PVC liner or standard TRUPACT-II container. The containers are then assayed and transferred to interim status storage areas. These wastes have been shipped to the INEL for stroage in the past. RF-330, 356, 337, 821, 822, 853, 831, 832, 833. Predominantly combustible debris.
WASTE STREAM SOURCE	IDC 337 represents PVC sheeting, poly bottles, supplied-air suits, polyethylene, and other plastics. IDC 337 changes to 825, 833, 853, or 863 at the point of assay. This stream is generated from Facility Operation, Analytical Laboratories, R&D Laboratories, and Spill Cleanups. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt. %, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	A- Process knowledge based upon general knowledge of waste type or source (e.g., there is some probability of a waste constituent being absent or present). Bounding analytical data have not been compiled in a form that is compatible with this report. This effort has been completed and the results are available in the Final Backlog Baseline Book dated September 26, 1994.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	GENERAAREA: Numerous locations throughout RFP.GENOPERATI: RECLASS_CO: Rocky Flats assays wastes to determine waste type instead of relying on process knowledge or historical data. For this reason, the potential for reclassification has not been analyzed.CATION: Not applicable OTHER_CHAR: No information available. RFP has assumed this waste to be LDR based on process knowledge characterization, and one sample analyzed for volatiles in 1988. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its genration date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. Analytical data are limited. WASTE_PACK: This waste is stored in 55 gallon carbon steel drums with one rigid polyethylene liner and several bag liners and standard metal boxes.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W029	Handling:	CH	NMVP #:	RF 123	Stream Name:	Leaded Dry Box Gloves/TRM	Inventory Date:	10/20/94
Local ID:	IDC 339	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5311

AS-GENERATED EPA CODES

D003, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	187.2	1.2	370.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	110.0	0.7	217.4
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

RF 123

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.17E+01
Pu-240	9.13E-01
Pu-239	3.99E+00
Am-241	2.02E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	22.9	12.0	7.0	38.5	43.6	124.0
Totals	22.9	12.0	7.0	38.5	43.6	124.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	22.9	42.1	8.4	41.3	46.3	160.9
Totals	22.9	42.1	8.4	41.3	46.3	160.9

As-Generated Form: Stored: 22.9 Projected: 101.1 Total: 124.0

Final Waste Form: Stored: 22.9 Projected: 138.1 Total: 161.0

WASTE STREAM DESCRIPTION

This waste stream is a solid matrix consisting of gloves with lead lining. There could be some free liquids in waste containers.

WASTE STREAM SOURCE

Leaded glovebox gloves are generated as waste at Rocky Flats by processes requiring a controlled atmosphere in Buildings 371, 374, 559, 707, 771, 774, 776, 777, 778, and 779 and encompasses IDCs 339 and 341. Prior to January 22, 1986, all leaded glovebox gloves were accumulated together as IDC 339 (Leaded Glovebox Gloves). At that time, IDC 341 (Leaded Glovebox Gloves, Acid Contaminated) was created. IDC 339 became "Leaded Glovebox Gloves, Nonacid Contaminated." Leaded glovebox gloves are replaced by schedule or as needed.

All backlog leaded glovebox gloves (IDC 0339 and 0341) were washed in Building 776 until about September 1989, at which time the process was curtailed. The primary purpose of the washing process was to remove the accountable material; however, the acid from the acid-contaminated gloves (IDC 341) was removed as well. After the acid-contaminated gloves were washed, the IDC was changed from 341 to 339. The glove washing process was curtailed upon completion of the inventory of backlog gloves.

Due to degradation from contact with process materials during normal process operations and age, the leaded glovebox gloves are replaced according to schedule or as necessary. Nonacid-contaminated leaded glovebox gloves (IDC 339) are generated as waste or residue depending on the assay, in Buildings 371, 374, 559, 707, 771, 774, 776, 779. Acid contaminated leaded glovebox gloves (IDC 341) were washed in Building 776 after which they were assigned IDC 339.

This stream is generated from Facility Operations, Analytical Laboratories, and R&D Laboratories.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

In addition to the reference documents and WEMS information, analytical data compiled by Rocky Flats were reviewed. This analytical information shows the presence of lead above the regulatory level stated in 6 CCR 1007-3, Section 261.24, in one sample, borderline in another, and well below the regulatory level in another.

Characterization is identified based on process knowledge. This population includes all IDC 339 nonacid contaminated gloves generated after the creation of IDC 341 (January 22, 1986). This population contains no acid-contaminated (IDC 341) gloves. This population exhibits the characteristic of toxicity for lead (D008). The primary buildings of generation were 371, 374, 559, 707, 771, 774, 776, 777, and 779.

One drum of IDC 339 gloves was generated before the creation of IDC 341 (January 22, 1986). Therefore, this drum could contain both acid- and nonacid-contaminated gloves.

Although numerous acids are used in aqueous processing, nitric is the acid of greatest concern because it dissolves the outer Hypalon layer of the gloves and reacts with the lead oxide layer to form lead nitrate and organic nitrate or nitro-organic compounds. These compounds are in very small quantities and do not cause the gloves to exhibit the characteristic of ignitability as outlined in 6 CCR 1007-3, Section 261.21. However, when dried, the compound decomposes violently at temperatures ranging from 60 to 130 degrees C. Also, the compound explodes when subjected to an impact load or when confined and ignited with a fuse. Unconfined, the compound burns violently when ignited with a spark. This drum is therefore assigned D003 for reactivity as outlined in 6 CCR 1007-3, Section 261.23 (a) (6).

Population 42A: Identified based on process knowledge, EPA codes, and generation dates. This population includes all IDC 339 nonacid contaminated gloves generated after the creation of IDC 341 (January 22, 1986). This population contains no acid-contaminated (IDC 341) gloves. This population exhibits the characteristic of toxicity for lead (D008). The primary buildings of generation were 371, 374, 559, 707, 771, 774, 776, 777, and 779.

Subpopulation 43B: This subpopulation includes all acid-contaminated leaded glove box gloves. As previously discussed, these gloves exhibit the characteristic of toxicity for lead (D008) and reactivity (D003). The primary buildings of generation were 371, 771, 777, and 779.

MANAGEMENT COMMENTS

N/A

ACCEPTANCE COMMENTS	RFP has assumed this waste to be LDR based on the fact that lead is a RCRA listed waste exhibiting the characteristic of toxicity. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: The gloves are packaged in 55-gallon drums lined with a rigid polyethylene liner and one bag liner.
FINAL FORM COMMENTS	Projections include generation from processing IDC 341 to IDC 339.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W041	Handling:	CH	NMVP #:	N/A	Stream Name:	Leaded Gloves-Acid Contaminated/TRM	Inventory Date:	10/20/94
Local ID:	IDC 341	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5311

AS-GENERATED EPA CODES

D008, D003

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Pu-241	2.91E+01
Pu-240	1.22E+00
Pu-239	5.34E+00
Am-241	7.94E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	26.2	0.0	0.0	0.0	0.0	26.2
Totals	26.2	0.0	0.0	0.0	0.0	26.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	0.0
Totals	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated Form: Stored: 26.2 Projected: 0.0 Total: 26.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION

IDC No. 341. This waste stream consists of leaded rubber gloves used in the glovebox systems for plutonium recovery operations in Buildings 771 and 371. These gloves are contaminated with nitric acid and other acids when replaced and discarded as waste.

WASTE STREAM SOURCE

Leaded Glovebox Gloves

Waste Form/Item Description Code/Waste Form Code Background for the Leaded Glovebox Gloves Waste Form

Leaded glovebox gloves are generated as waste or residue at Rocky Flats by processes requiring a controlled atmosphere in Buildings 371, 374, 559, 707, 771, 774, 776, 777, 778, and 779 and encompasses IDCs 339 and 341. Prior to January 22, 1986, all leaded glovebox gloves were accumulated together as IDC 339 (Leaded Glovebox Gloves). At that time, IDC 341 (Leaded Glovebox Gloves, Acid Contaminated) was created. IDC 339 became "Leaded Glovebox Gloves, Nonacid Contaminated." Leaded glovebox gloves are replaced by schedule or as needed.

All backlog leaded glovebox gloves (IDC 0339 and 0341) were washed in Building 776 until about September 1989, at which time the process was curtailed. The primary purpose of the washing process was to remove the accountable material; however, the acid from the acid-contaminated gloves (IDC 341) was removed as well. After the acid-contaminated gloves were washed, the IDC was changed from 341 to 339. The glove washing process was curtailed upon completion of the inventory of backlog gloves.

Item Description Code 341

Acid-contaminated leaded glovebox gloves (IDC 341) are generated as waste or residue depending on the assay, in Buildings 371, 771, 777, and 779. Due to degradation from contact with process materials and age, the gloves are replaced according to schedule or as necessary. When acid-contaminated gloves (IDC 0341) were washed, the IDC was changed to 0339.

This stream is generated from Facility Operations, Analytical Laboratories, and R&D Laboratories.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

In addition to the reference documents and WEMS information, analytical data compiled by Rocky Flats were reviewed. This analytical information shows the presence of lead above the regulatory level stated in 6 CCR 1007-3, Section 261.24, in one sample, borderline in another and well below the regulatory level in another.

Leaded glovebox gloves are manufactured with a lead oxide layer between two or more layers of neoprene-Hypalon, for shielding against penetrating radiation. The available analytical data were obtained from unused, 30-millimeter-thick gloves. Analytical data for the lead content of 50- and 80-millimeter-thick leaded gloves are not available. However, the lead content is assumed to be substantially higher than the 30-millimeter-thick gloves. Also, the lead from used gloves, degraded from contact with process materials, may leach more readily than from unused gloves.

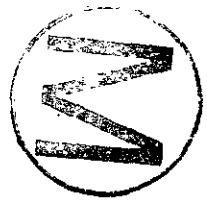
Toxicity Characteristic Leaching Procedure (TCLP) metals by Inductively Coupled Plasma Emission Spectroscopy showed the lead above the regulatory limit. Other contaminants include acid and base solutions and listed solvents. Glovebox gloves used in processes that require listed solvents are not considered listed solvent wastes because the gloves do not retain solvents in the same way paper or cloth wipes do. Contact of the gloves with solvents is considered incidental contact. Therefore, the gloves are not subject to the mixture rule.

IDC 341 includes leaded gloves exposed to acids which have not been washed. Although numerous acids are used in aqueous processing, nitric is the acid of greatest concern because it dissolves the outer Hypalon layer of the gloves and reacts with the lead oxide layer to form lead nitrate and organic nitrate or nitro-organic compounds. These compounds are in very small quantities and do not cause the gloves to exhibit the characteristic of ignitability as outlined in 6 CCR 1007-3, Section 261.21. However, when dried, the compound decomposes violently at temperatures ranging from 60 to 130 degrees C. Also, the compound explodes when subjected to an impact load or when confined and ignited with a fuse. Unconfined, the compound burns violently when ignited with a spark. IDC 341 leaded gloves are therefore

assigned D003 for reactivity as outlined in 6 CCR 1007-3, Section 261.23 (a)(6).

This subpopulation includes all IDC 341 acid-contaminated leaded glovebox gloves. As previously discussed, IDC 341 gloves exhibit the characteristic of toxicity for lead (D008), and reactivity (D003). The primary buildings of generation were 371, 771, 777, and 779.

MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP has determined that leaded gloves and acid-contaminated leaded gloves are LDR waste based on the process knowledge available. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge.
FINAL FORM COMMENTS	N/A



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W008	Handling:	CH	NMVP #:	RF 121	Stream Name:	Soil & Cleanup Debris/TRM	Inventory Date:	10/20/94
Local ID:	IDC 374	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5190

AS-GENERATED EPA CODES

F001, F002, F006, F009, F003, F005, F007, F039, D006, D007, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	273.1	208.9	628.4
Vitrified:	0.0	0.0	0.0
Cellulosics:	12.0	12.0	12.0
Rubber:	0.0	0.0	0.0
Plastics:	12.0	12.0	12.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	64.9	9.6	628.4
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

RF 121

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	3.30E+00
Pu-240	1.39E-01
Pu-239	6.06E-01
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	1.2	0.0	0.0	0.0	0.0	1.2
Totals	1.2	0.0	0.0	0.0	0.0	1.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.2	0.0	0.0	0.0	0.0	1.2
Totals	1.2	0.0	0.0	0.0	0.0	1.2

As-Generated Form: Stored: 1.2 Projected: 0.0 Total: 1.2

Final Waste Form: Stored: 1.2 Projected: 0.0 Total: 1.2

WASTE STREAM DESCRIPTION This waste consists of blacktop/concrete/dirt/sand.

WASTE STREAM SOURCE Soil and cleanup-debris (IDC 374) were generated during cleanup and construction activities around Rocky Flats. In most cases, construction or demolition activities generated rubble consisting of blacktop, concrete, dirt, sand , and rock. The rubble was packaged in plywood boxes with a fiberboard liner and a polyvinyl chloride (PVC) bag liner or in 55-gallon, DOT Type 7A drups. The waste was generated on a nonroutine basis. Information describing spendid activities generating soil and debris were often unavailable.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

Subpopulation 23B-Container Number D48510

Drum D48510 was generated in Building 374, Room 3803. Room 3803 houses part of the Building 374 Sludge Immobilization Process. The process generated solidified sludge. The waste in drum D48510 is potentially contaminated with process sludge. The sludge consists of RCRA-regulated materials from Decontamination-Precipitation and Neutralization Processes in the Building 374 Liquid Waste Treatment Facility. Building 374 solidified sludge is characterized in the Building 374 Solidified Sludge Backlog Baseline Book.

Building 374 sludge was intermittently contaminated with Resource Conservation and Recovery Act (RCRA) metals (EPA Codes D004-D011). Sampling and analysis of solidified sludge found the waste exceeded toxicity characteristic criteria for chromium (EPA Code D007) and selenium (D010) but at very low levels. It will be assumed that the waste contained in drum D48510 would not exhibit the characteristic of toxicity for chromium and selenium because of dilution by the soil and debris. Toxicity Characteristic Leaching Procedure (TCLP) analysis of the waste under EPA SW-846 is required to prove the waste does not exceed toxicity characteristic criteria.

Contaminated soil and cleanup debris must also carry the listed EPA codes associated with Building 374 solidified sludge. The EPA Codes F001, F002, F003, F005, F006, F007, F009, and F039 are assigned to the waste and it will not be considered as meeting the Land Disposal Restrictions (LDR) treatment standards until sampling and analysis proves otherwise.

Subpopulation 23D-Container Number D75005

WEMS indicates drum D75005 was generated in Building 776. However, the waste was repackaged in Building 776 in April 1988 after a failed drum containing the waste was discovered in the Property Utilization and Disposal storage yard.

The drum contains soil and two sample vials of chromium oxide and aluminum oxide. It will be assumed that the waste contained in drum D75005 exhibits the characteristic of toxicity for chromium (D007) because of chromium oxide contamination. TCLP analysis of the waste under EPA SW-846 is required to prove the waste does not exceed toxicity characteristic criteria.

Subpopulation 23E-Soil and Asphalt from the 750 and 904 Pads Earth Anchor Installation

The installation of earth anchors for the 750 and 904 Pads in 1990 and 1991 generated a large amount of soil and asphalt. The waste was packaged in half-boxes with the generation prefix 788. Some of the half-boxes were rejects but were used because the waste was expected to remain in the reject containers for a short time before remediation activities began. During remediation of the pads, containers of soil and debris were to be emptied and the waste treated. These activities never occurred and the waste is still in the rejected containers.

The soil and debris may have been contaminated with pondcrete and saltcrete waste stored in the pad areas. The work procedure required that EPA codes associated with pondcrete and saltcrete be assigned to the soil and debris. An explanation of codes applicable to pondcrete and salcrete is provided in the Pondcrete Backlog Baseline Book and the Saltcrete Backlog Baseline Book.

Pondcrete and saltcrete were intermittently contaminated with Resource Conservation and Recovery Act (RCRA) metals (EPA Codes D004-D011). Sampling and analysis of saltcrete found the waste did not exhibit a characteristic for RCRA metals. Sampling and analysis of pondcrete found the waste exceeded toxicity characteristic criteria for cadmium (EPA Code D006) and chromium (EPA Code D007) but at very low levels. It is assumed that the soil and debris from the earth anchor installation does not exhibit the characteristic of toxicity for cadmium and chromium because of dilution by the soil and debris. TCLP analysis of the waste under EPA SW-846 (EPA 1990) is required to prove the waste does not exceed toxicity characteristic criteria.

Contaminated soil and debris from the earth anchor installation must carry the listed EPA codes associated with pondcrete and saltcrete. The EPA Codes F001, F002, F003, F005, F006, F007, F009, and F039 are assigned to the waste and it will not be considered as meeting the LDR treatment standards until sampling and analysis proves otherwise.

Other EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS GENERAAREA: Plutonium process areas. GENOPERATION: Generated in multiple buildings in which aqueous plutonium recovery or plutonium fabrication processes were conducted. RECLASS_CO: Rocky Flats assays wastes to determine waste type instead of relying on process knowledge or historical data. For this reason, the potential for reclassification has not been analyzed. CATION: Not Applicabe. OTHER_CHAR: Not Applicable.

RFP has determined this waste to be LDR based on process knowledge characterization. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: 55 gallon carbon steel DOT 7A Type A Drum.

FINAL FORM COMMENTS N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W026	Handling:	CH	NMVP #:	RF 122	Stream Name:	Used Absorbents/TRM	Inventory Date:	10/20/94
Local ID:	IDC 375	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Organics	Waste Matrix Code:	S3114

AS-GENERATED EPA CODES

F002, D019, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	167.3	167.3	167.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	7.7	7.7	7.7
Solidified Organic Material:	7.7	7.7	7.7
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

RF 122

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	8.32E-01
Pu-240	3.24E-02
Pu-239	1.42E-01
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste form is vermiculite with absorbed organic liquid.
WASTE STREAM SOURCE	This waste stream was previously named "Spent Absorbent/TRU (Oil Dri)". This waste stream was not specifically identified in the Storage or Inventory Report prepared by RFP in fulfillment of FFCA requirements. This waste is the TRU fraction of the waste titled "Oil Dri/LLW Mixed" in the Inventory Report. Normally it is LLW, but occasionally some assays as TRU. This waste stream is IDC No. 375 Absorbents, usually vermiculite materials, which are used in the plutonium and uranium process areas for cleanup of hazardous liquid spills (spent solvents), oil absorption, or absorption of any liquids as needed. One of the most commonly used absorbents is Oil Dri(R). Spent absorbents are assumed to be radiologically contaminated. The waste is packaged in 55-gallon drums lined with two polyethylene bags. IDC 375 - Any type of absorbent vermiculite material. Mixed waste. Oil Dri is an absorbent vermiculite material.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	No sample analysis of this material has been performed. Characterization is based on process knowledge. Subpopulation 18C This single drum, D72372, is in Subpopulation 18C. Based on process knowledge information on this drum and the use of carbon tetrachloride and Freon TF in Building 707, Module C, shown in WSRIC, this drum's contents are considered to be RCRA hazardous. It is further assumed that the contents exhibit the characteristic of toxicity for carbon tetrachloride; therefore, EPA Code D019 is assigned. EPA codes have also been assigned for the F-listed solvents. The CCC for this drum is 1020. No analytical data are available for this subpopulation.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP has assumed this waste to be LDR based on process knowledge characterization and one sample analyzed for volatiles in 1988. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: This waste is packaged in a 55 gallon carbon steel drum.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W036	Handling:	CH	NMVP #:	RF 122	Stream Name:	Firebrick, coarse/TRM	Inventory Date:	10/20/94
Local ID:	IDC 377,378,373,37	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3119

AS-GENERATED EPA CODES

F003, D011, D009, D010, F001, D005, D004, D008, F002, F005, D007, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	71.2	30.4	180.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	19.6	8.4	49.7
Rubber:	13.0	5.5	32.9
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

RF 122

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.85E+01
Pu-240	1.20E+00
Pu-239	5.24E+00
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	3.5	0.0	0.0	0.0	0.0	3.5
Totals	3.5	0.0	0.0	0.0	0.0	3.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.5	0.0	0.0	0.0	0.0	3.5
Totals	3.5	0.0	0.0	0.0	0.0	3.5

As-Generated Form: Stored: 3.5 Projected: 0.0 Total: 3.5

Final Waste Form: Stored: 3.5 Projected: 0.0 Total: 3.5

WASTE STREAM DESCRIPTION	This waste form is firebrick that has been crushed and pulverized.
WASTE STREAM SOURCE	During maintenance operations, pulverized scarfed firebrick was generated in Building 771. This material was also generated during incinerator stripout operations in Building 371. Spent firebrick was subjected to a mechanical scarfing process to remove plutonium-bearing surface layers. Pulverized firebrick consists of chunks granular, fine, and very fine, plutonium-bearing surface layer of the high-density alumina ceramic firebrick material. RE: Section 6.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Subpopulations IK, IL, IM, IN EPA Codes D004-D011, F001, F002, F003, and F005 were assigned to these subpopulations based on the characterization of incinerator feed materials. Based on the characterization of the feed, alcohols, glycols, halogenated solvents, and metals may have been introduced into the incinerator. Because the specific sources of the incinerator feed cannot be determined at this time, it has been assumed that the process could have accepted any of the combustible, plastic, or filter waste currently contained in the backlog that were generated during the time the incinerator was operational. A report was generated from the Backlog Waste Reassessment database that summarizes the EPA codes assigned to inventory containers of combustibles (IDCs 330 and 336), plastics (337), and Ful-Flo filters (331) generated about the same time that the incinerator was operational. The following EPA codes were contained in the database for these wastes; D004-D011, D018, D019, D028, D029, D035, D038, F001, F002, F003, and F005. It was assumed that the F-listed solvents would have to be applied due to the "derived-from" rule. The codes for the D-listed metals were applied because these metals would be concentrated during incineration. However, it was assumed that the D-listed solvent would be volatilized and driven off in this process. Therefore, these solvents would not be present at levels exceeding Toxicity Characteristic Leaching Procedure (TCLP) limits due to the thermal treatment. This subpopulation is land disposal restricted due to the presence of RCRA metals. It is not land disposal restricted for F-listed solvents because the Best Demonstrated Available Technology (BDAT) (thermal treatment) was used to treat this waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	Net and gross weight data are not available for all container types. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Variability surronding fullness of containers precludes a meaningful computation of density. 2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. The waste is packaged in 55- gallon drums lined with a rigid polyethylene liner. Projected future generation begins in CY2005.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W036	Handling:	CH	NMVP #:	N/A	Stream Name:	Firebrick, pulverized or fines/TRM
Local ID:	IDC 377,378,373,3	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics

Inventory Date: 10/20/94

Waste Matrix Code: S3119

AS-GENERATED EPA CODES

F003, D011, D009, D010, F001, D005, D004, D008, F002, F005, D007, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.85E+01
Pu-240	1.20E+00
Pu-239	5.24E+00
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste form is firebrick that has been crushed and pulverized.
WASTE STREAM SOURCE	During maintenance operations, pulverized scarfed firebrick was generated in Building 771. This material was also generated during incinerator stripout operations in Building 371. Spent firebrick was subjected to a mechanical scarfing process to remove plutonium-bearing surface layers. Pulverized firebrick consists of chunks granular, fine, and very fine, plutonium-bearing surface layer of the high-density alumina ceramic firebrick material. The current inventory contains 45 drums mixed transuranic waste and residues. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Subpopulations IK, IL, IM, IN EPA Codes D004-D011, F001, F002, F003, and F005 were assigned to these subpopulations based on the characterization of incinerator feed materials. Based on the characterization of the feed, alcohols, glycols, halogenated solvents, and metals may have been introduced into the incinerator. Because the specific sources of the incinerator feed cannot be determined at this time, it has been assumed that the process could have accepted any of the combustible, plastic, or filter waste currently contained in the backlog that were generated during the time the incinerator was operational. A report was generated from the Backlog Waste Reassessment database that summarizes the EPA codes assigned to inventory containers of combustibles (IDCs 330 and 336), plastics (337), and Ful-Flo filters (331) generated about the same time that the incinerator was operational. The following EPA codes were contained in the database for these wastes; D004-D011, D018, D019, D028, D029, D035, D038, F001, F002, F003, and F005. It was assumed that the F-listed solvents would have to be applied due to the "derived-from" rule. The codes for the D-listed metals were applied because these metals would be concentrated during incineration. However, it was assumed that the D-listed solvent would be volatilized and driven off in this process. Therefore, these solvents would not be present at levels exceeding Toxicity Characteristic Leaching Procedure (TCLP) limits due to the thermal treatment. This subpopulation is land disposal restricted due to the presence of RCRA metals. It is not land disposal restricted for F-listed solvents because the Best Demonstrated Available Technology (BDAT) (thermal treatment) was used to treat this waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	Net and gross weight data are not available for all container types. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Variability surrounding fullness of containers precludes a meaningful computation of density. 2. Basis for determining LDR storage prohibition status is based primarily on process knowledge. The waste is packaged in 55- gallon drums lined with a rigid polyethylene liner.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W040	Handling:	CH	NMVP #:	N/A	Stream Name:	incinerator ash/TRM
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics

Inventory Date: 10/20/94

Waste Matrix Code: S3111

AS-GENERATED EPA CODES

D011, D010, D009, D006, D004, F005, F003, D007, D008, D005, F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	4.08E+01
Pu-240	1.72E+00
Pu-239	7.49E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.8 Projected: 0.0 Total: 0.8

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste stream is a fire particulate ash. It could also be chunky material from moisture.
WASTE STREAM SOURCE	This waste form consists of waste generated by the Residue Recovery Incinerator system in Building 771, Fluidized Bed Incinerator (FBI) in Building 776, and test runs by the incinerator in Building 371. The Low-Specific Activity (LSA) and High-Specific Activity (HSA) incinerators in Building 371 were developed as volume-reduction incinerators. The startup operation test used noncontaminated materials throughout the processes. The test revealed design concerns; therefore, these incinerators never became operational. No WSRIC information is available to describe this process in greater detail. The function of the Residue Recovery Incinerator was to reduce volume and destroy volatile constituents prior to plutonium recovery operations for combustible wastes from production processes (primarily IDCs 330, 331, 336, and 337). Waste feed was hand-sorted to segregate combustibles. Noncombustibles such as metal and glass were segregated and removed from the process. The by-products of this process included ash (IDCs 419, 420, 421, and 428). Item Description Code 420, Pulverized Incinerator Ash Pulverized incinerator ash was generated as an intermediate product during routine operation of the incinerator in Building 771. This material was also generated during incinerator stripout operations in Building 371. The pulverized ash consists of a mixture of coarse, granular, fine, and very fine particulates that have been ground by the ball mill. The ash contains miscellaneous tramp metal, bits of unburned feed material, and carbon from the incomplete oxidation of feed material. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	One subpopulation consists of IDC 425 materials characterized under Backlog Waste Reassessment Task 7, Event 20, but only includes the ash generated by the Full-Scale unit. EPA code D007 was assigned to the subpopulation. The characterization rationale for this subpopulation can be found in the report prepared for this event. Another subpopulation consists of IDC 425 materials characterized under Backlog Waste Reassessment Task 7, Event 20, but only includes ash generated by the Pilot-Scale unit. EPA codes D007, F003, and F005 were assigned to the subpopulation. The characterization rationale for this subpopulation can be found in the report prepared for this event. The last subpopulation consists of IDC 420 backlog containers. EPA codes D004-D011, F001, F002, F003, and F005 were assigned to this subpopulation based on the characterization of incinerator feed materials (alcohols, glycols, halogenated solvents, and metals). However, this subpopulation contained no free liquids and thus D002 is not applied. Subpopulation 1D consists of IDC 425 materials characterized under Task 7, Event 20 but only includes the ash generated by the Pilot-Scale Unit. EPA Codes D007, F003, and F005 were assigned to the subpopulation. Rationale for this subpopulation can be found in the report prepared for this event. Subpopulations 1F, 1G, 1P, and 1Q, consist of IDCs 420, 421, 423, 371, 373, 377, 378, 422, 426, and 419, respectively, for backlog inventory containers. EPA Codes D004-D011, F001, F002, F003, and F005 were assigned to this subpopulation. Limited analytical data indicate that this waste form exceeds the LDR treatment standard for chromium. These data must complete data validation. The results to date are discussed in the Waste Characterization Report, Incinerator Ash, Item Description Codes 420 and 425.
MANAGEMENT COMMENTS	N/A

ACCEPTANCE COMMENTS	RFP has determined that incinerator ash is LDR waste based on available process knowledge. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. FBI ash was packaged in 55-gallon drums lined with a rigid polyethylene liner and one bag liner.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W040	Handling:	CH	NMVP #:	N/A	Stream Name:	incinerator ash/TRM
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics

Inventory Date: 10/20/94

Waste Matrix Code: S3111

AS-GENERATED EPA CODES

D007, F005, F003

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	4.08E+01
Pu-240	1.72E+00
Pu-239	7.49E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
drum / 55-gallon	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form:	Stored:	0.8	Projected:	0.0	Total:	0.8
Final Waste Form:	Stored:	0.0	Projected:	0.0	Total:	0.0

WASTE STREAM DESCRIPTION

This waste stream is a fire particulate ash. It could also be chunky material from moisture.

WASTE STREAM SOURCE

This waste form consists of waste generated by the Fluidized Bed Incinerator (FBI) in Building 776.

The FBIs in Building 776 were developed as pilot operations. Their test function was to develop new technology to reduce volume and destroy volatile constituents prior to plutonium recovery operations. The only incinerator to generate backlog waste covered by this waste form was the Full-Scale Unit. The first runs of this incinerator (1978 to 1981) used newspaper, Building 776 low-level waste (LLW), combustible waste, kerosene, garage oil, and grease as test materials. The tests were conducted with methanol, diesel products, and nonradioactive surrogate combustibles (shredded coveralls, leather gloves, rolls of polyvinyl chloride [PVC] plastic, wood, and paper). The by-product of this process was FBI ash (IDC 425).

Item Description Code 425, Fluidized Bed Ash

This waste is a mixture of aluminum oxide and a chromium oxide oxidation catalyst, sodium carbonate, and ash, mainly catalyst and sodium carbonate ash from Building 776. During the incineration of materials containing chloride compounds, a portion of the sodium carbonate changes to sodium chloride.

The Pilot-Scale FBI Unit was operated from 1971 to 1978. The first runs used PVC, polyethylene, and paper as test materials. After 1974, paint thinner from the Building 333 paint shop, tributyl phosphate, kerosene, and hydrazine hydrate were burned. Polychlorinated biphenyls (PCBs), mixed 1 part PCB to 4-5 parts diesel fuel or kerosene were burned in 1978. Unless containers of backlog waste were generated during maintenance operations of the Pilot-Scale Unit, all containers in the current inventory were generated after 1978 and are assumed to be from the Full-Scale Unit. Though the Pilot-Scale Unit burned PCBs, the ash is not Toxic Substance Control Act (TSCA) regulated. The incinerator burned at a high destruction efficiency and PCBs over the TSCA regulatory limit of 50 parts per million (ppm) are not anticipated in the ash.

The Full-Scale Unit was operated from 1978 to 1981, and again from 1985 to 1988. The first runs (1978 to 1981) used newspaper, Building 776 LLW, combustible waste, kerosene, garage oil, and grease as test materials. The tests from 1985 to 1988 were conducted with methanol, diesel products, and nonradioactive surrogate combustibles (shredded coveralls, leather gloves, rolls of PVC plastic, wood, and paper).

RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

One subpopulation consists of IDC 425 materials characterized under Backlog Waste Reassessment Task 7, Event 20, but only includes the ash generated by the Full-Scale unit. EPA code D007 was assigned to the subpopulation. The characterization rationale for this subpopulation can be found in the report prepared for this event.

Another subpopulation consists of IDC 425 materials characterized under Backlog Waste Reassessment Task 7, Event 20, but only includes ash generated by the Pilot-Scale unit. EPA codes D007, F003, and F005 were assigned to the subpopulation. The characterization rationale for this subpopulation can be found in the report prepared for this event.

The last subpopulation consists of IDC 420 backlog containers. EPA codes D004-D011, F001, F002, F003, and F005 were assigned to this subpopulation based on the characterization of incinerator feed materials (alcohols, glycols, halogenated solvents, and metals). However, this subpopulation contained no free liquids and thus D002 is not applied.

Subpopulation 1D consists of IDC 425 materials characterized under Task 7, Event 20 but only includes the ash generated by the Pilot-Scale Unit. EPA Codes D007, F003, and F005 were assigned to the subpopulation. Rationale for this subpopulation can be found in the report prepared for this event.

Subpopulations 1F, 1G, 1P, and 1Q, consist of IDCs 420, 421, 423, 371, 373, 377, 378, 422, 428, and 419, respectively, for backlog inventory containers. EPA Codes

D004-D011, F001, F002, F003, and F005 were assigned to this subpopulation.

Limited analytical data indicate that this waste form exceeds the LDR treatment standard for chromium. These data must complete data validation. The results to date are discussed in the Waste Characterization Report, Incinerator Ash, Item Description Codes 420 and 425.

MANAGEMENT COMMENTS N/A

ACCEPTANCE COMMENTS RFP has determined that incinerator ash is LDR waste based on available process knowledge. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date.

1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. FBI ash was packaged in 55-gallon drums lined with a rigid polyethylene liner and one bag liner.

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W052	Handling:	CH	NMVP #:	RF 118	Stream Name:	Glass/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-metal	Waste Matrix Code:	S5122

AS-GENERATED EPA CODES

D009, D008, D005

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	2.0	0.0	5.3
Other Inorganic Material:	136.8	16.8	352.5
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	1.2	0.0	3.1
Plastics:	30.3	3.7	78.1
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	138.7		
Packaging Material Plastic:	34.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

RF 118

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	6.75E+00
Pu-240	2.83E-01
Pu-239	1.28E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	3.7	8.3	10.7	22.8	21.9	67.4
Standard waste box /	1.9	4.0	5.2	11.2	11.8	34.0
Totals	5.6	12.3	15.9	33.9	33.7	101.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.7	8.3	10.7	22.8	21.9	67.4
Standard Waste Box	1.9	4.0	5.2	11.2	11.8	34.0
Totals	5.6	12.3	15.9	33.9	33.7	101.4

As-Generated Form: Stored: 5.6 Projected: 95.8 Total: 101.4

Final Waste Form: Stored: 5.6 Projected: 95.8 Total: 101.4

WASTE STREAM DESCRIPTION	This waste stream is made up of glass from analytical labs, recovery processes, ceramics, and glovebox windows.
WASTE STREAM SOURCE	IDC 440 includes glass waste from analytical laboratories and recovery processes, standard light bulbs generated inside the PA, and ceramic materials. Glass waste assigned IDC 440 was generated in Buildings 123,371, 444, 559, 707, 771, 776, 777, 889. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1wt%, but has no supporting data. This waste stream is generated from Facility Operations, Analytical Laboratories, and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Item Description Code 440 This IDC was separated from IDC 444 (created in 1989 specifically for ground glass and leaded glass) because the two waste forms exhibit different chemical characteristics, hazardous constituents, and EPA codes. Therefore, drums of IDC 440 materials generated prior to 1989 could contain leaded glass. These are included in Subpopulation 17G and are assigned EPA codes D005 and D008. Item Description Code 442 In addition to the reference documents and WEMs information used, analytical data compiled by EG&G Rocky Flats were reviewed. The data shows that the concentrations of Toxicity Characteristic (TC) metals barium, cadmium, chromium, lead, and silver were well below regulated levels provided in 6 CCR 1007-3, Section 261.24. Subpopulation 17F includes Raschig Rings assigned IDC 442 that are contaminated with carbon tetrachloride, 1,1,1-trichloroethane, or both. Based on analytical data, Raschig Rings do not exhibit the characteristic of toxicity for metals. All containers in this group were generated in Building 777 according to WEMS. Rings generated in Building 777 were generated by the Carbon Tetrachloride System in Tanks 1103, 1104, and 1106, Room 131, and by the Trichloroethane Collection and Filter System in Tanks T-1 and T-2, Room 430. Therefore, it is assumed that these rings are all contaminated with carbon tetrachloride or 1,1,1-trichloroethane sludge. They are, therefore, assigned EPA Waste Codes F001 and F002. Subpopulation 27B is assigned EPA code D009 because of mercury in the spent fluorescent lamps.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP has determined that this grouping is LDR waste based on available process knowledge with some of the IDCs identified containing listed hazardous components. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of is generation date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: DOT 7A TYPE A metal boxes and DOT 7A TYPE A drums.
FINAL FORM COMMENTS	Assuming 67% of projected generation will be in 55-gallon drums based on current container inventory.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W052	Handling:	CH	NMVP #:	RF 118	Stream Name:	Glass/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5122

AS-GENERATED EPA CODES

F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	14.7	0.0	24.3
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	250.8	19.1	415.4
Vitrified:	0.0	0.0	0.0
Cellulosics:	7.6	0.0	12.6
Rubber:	0.0	0.0	0.0
Plastics:	8.7	0.6	14.5
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

RF 118

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	6.75E+00
Pu-240	2.83E-01
Pu-239	1.28E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	6.7	21.7	28.0	59.6	59.0	174.9
Totals	6.7	21.7	28.0	59.6	59.0	174.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	6.7	20.4	28.0	59.6	59.0	173.6
Totals	6.7	20.4	28.0	59.6	59.0	173.6

As-Generated Form: Stored: 6.7 Projected: 168.3 Total: 174.9

Final Waste Form: Stored: 6.7 Projected: 168.3 Total: 174.9

WASTE STREAM DESCRIPTION	This waste stream is made up of glass from analytical labs, recovery processes, ceramics, and glovebox windows.
WASTE STREAM SOURCE	Raschig Rings currently in WEMS assigned IDC 442 were generated in Buildings 771, 776, and 777. Prior to being replaced, the tanks were drained and the rings were leached with dilute nitric acid or water. The rings generated in Building 771 are from the production processes and Tanks D80-65, d0-360, D-361, D-451, D-454, D-467, D-750, D-706, D-922, D-973, D-974, D-980, D-1008, D-1013, D-1022, and D-1081. Rings generated in Building 776 are from the Size Reduction Process and Tanks SR 3, 4, and 5 and as unused rings. Rings generated in Building 777 were generated by the Carbon Tetrachloride System in Tanks 1103, 1104, and 1106, Room 131, and by the Trichloroethane Collection and Filter System in Tanks T-1 and T-2, Room 430. The building 777 rings should be assigned IDC 443 as discussed in the following section. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1wt%, but has no supporting data This stream is generated from Facility Operations, Analytical Laboratories, and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Item Description Code 440 This IDC was separated from IDC 444 (created in 1989 specifically for ground glass and leaded glass) because the two waste forms exhibit different chemical characteristics, hazardous constituents, and EPA codes. Therefore, drums of IDC 440 materials generated prior to 1989 could contain leaded glass. These are included in Subpopulation 17G and are assigned EPA codes D005 and D008. Item Description Code 442 In addition to the reference documents and WEMs information used, analytical data compiled by EG&G Rocky Flats were reviewed. The data shows that the concentrations of Toxicity Characteristic (TC) metals barium, cadmium, chromium, lead, and silver were well below regulated levels provided in 6 CCR 1007-3, Section 261.24. Subpopulation 17F includes Raschig Rings assigned IDC 442 that are contaminated with carbon tetrachloride, 1,1,1-trichloroethane, or both. Based on analytical data, Raschig Rings do not exhibit the characteristic of toxicity for metals. All containers in this group were generated in Building 777 according to WEMS. Rings generated in Building 777 were generated by the Carbon Tetrachloride System in Tanks 1103, 1104, and 1106, Room 131, and by the Trichloroethane Collection and Filter System in Tanks T-1 and T-2, Room 430. Therefore, it is assumed that these rings are all contaminated with carbon tetrachloride or 1,1,1-trichloroethane sludge. They are, therefore, assigned EPA Waste Codes F001 and F002. Subpopulation 27B is assigned EPA code D009 because of mercury in the spent fluorescent lamps.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP has determined that this grouping is LDR waste based on available process knowledge with some of the IDCs identified containing listed hazardous components. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of is generation date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: DOT 7A TYPE A metal boxes and DOT 7A TYPE A drums.

FINAL FORM COMMENTS N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W032	Handling:	CH	NMVP #:	RF 118	Stream Name:	Ground Leaded Glass/TRM	Inventory Date:	10/20/94
Local ID:	IDC 444, 855	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5122

AS-GENERATED EPA CODES

D008, D005, D009

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	135.5	61.3	193.7
Vitrified:	0.0	0.0	0.0
Cellulosics:	1.1	1.1	1.1
Rubber:	1.1	1.1	1.1
Plastics:	19.8	19.8	19.8
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	130.9		
Packaging Material Plastic:	8.8		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

RF 118

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.33E+00
Pu-240	5.61E-02
Pu-239	2.45E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.8	0.1	0.1	0.3	0.3	1.7
metal box / 4x4x7	3.2	0.0	0.0	0.0	0.0	3.2
Standard waste box /	1.9	0.3	0.3	0.7	0.6	3.8
Totals	5.9	0.4	0.5	1.0	0.9	8.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.8	0.1	0.1	0.3	0.3	1.7
Standard Waste Box	1.9	1.1	1.3	2.6	2.5	9.4
Totals	2.7	1.2	1.5	2.9	2.8	11.1

As-Generated Form: Stored: 5.9 Projected: 2.7 Total: 8.6

Final Waste Form: Stored: 2.7 Projected: 8.4 Total: 11.1

WASTE STREAM DESCRIPTION	Matrix consits of crushed glass light bulbs and leaded glass that is crushed on removal.
WASTE STREAM SOURCE	IDC 444 includes ground fluorescent bulbs and leaded glass used throughout the plutonium-and-uranium-processing areas. The material was generated as waste or residue when glovebox glass was replaced, or as low-level waste when fluorescent light bulbs were replaced. IDC 444 materials in the backlog inventory were generated in Building 371, 374, 559, 707, 771, and 776. This stream is generated from Facilities Operations, Analytical Laboratories, and R&D Laboratories. Re: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt% but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Analytical data showed the presence of toxic metals in some containers of IDC 444. Based on these analytical data, these materials are characterized as hazardous and assigned EPA codes D005 and D008. Analytical data for IDC 855 show that there are enough cases where the samples fail the Toxicity Characteristic Leaching Procedure (TCLP), that the waste bulbs should be managed as hazardous waste and assigned the EPA code D009. EPA codes are assigned to newly generated waste by the generator based on process knowledge. Subpopulation 17G includes containers of leaded glovebox glass. Based on analytical data, these materials are characterized as hazardous and assigned EPA Waste Codes.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	LDR_DETERM: Net and gross weight data are not available for all container types. RFP has assumed this waste to be LDR based on the fact that it is a RCRA listed waste. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: The glass waste is packaged in 55- gallon drums that are lined with one fiberboard liner and two polyethylene bags or metal boxes. Drums are placed in TRUPACT II containers.
FINAL FORM COMMENTS	Assuming 13% of projected generation will be 55-gallon drums based on current inventory.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W011	Handling:	CH	NMVP #:	RF 117	Stream Name:	LIGHT METAL/TRM	Inventory Date:	10/20/94
Local ID:	IDC 480	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Lead/Cadmium Metal Waste	Waste Matrix Code:	S5111

AS-GENERATED EPA CODES

D007, D002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	160.4	1.7	488.7
Aluminum-base Metal/Alloys:	20.2	0.2	61.6
Other Metals/Alloys:	7.6	0.0	23.3
Other Inorganic Material:	13.4	0.1	40.9
Vitrified:	0.0	0.0	0.0
Cellulosics:	2.5	0.0	7.6
Rubber:	2.9	0.0	8.9
Plastics:	21.2	0.2	64.7
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

RF 117

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.10E+01
Pu-240	4.64E-01
Pu-239	2.03E+00
Am-241	1.84E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	34.4	14.9	155.8	95.2	300.6
Totals	0.2	34.4	14.9	155.8	95.2	300.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	34.4	14.9	155.8	95.2	300.6
Totals	0.2	34.4	14.9	155.8	95.2	300.6

As-Generated Form: Stored: 0.2 Projected: 300.4 Total: 300.6

Final Waste Form: Stored: 0.2 Projected: 300.4 Total: 300.6

WASTE STREAM DESCRIPTION	This waste stream is metal tools, etc. generated during glovebox operations.
WASTE STREAM SOURCE	The one container of IDC 480, Light metal, in this waste form was generated in Building 707, Module K, in April 1991. The metal in this container is line generated material.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	Rocky Flats assays wastes to determine waste type instead of relying on process knowledge or historical data. For this reason, the potential for reclassification has not been analyzed. RFP has assumed this waste to be LDR based on process knowledge characterization. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. Waste is packaged in 55 gallon DOT 7A Type A Drums. The drums are lined with one rigid polyethylene liner and several bag liners.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W090	Handling:	CH	NMVP #:	N/A	Stream Name:	Excess Chemicals/TRM
Local ID:	0544	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics

Inventory Date: 10/20/94

Waste Matrix Code: X6900

AS-GENERATED EPA CODES

D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

		TRUCON CODE	FINAL FORM RADIONUCLIDES
Category:	Defense TRU Waste	N/A	N/A
Residues:	No		
Asbestos:	No		
PCBs:	No		
Source:	Analytical Laboratory Waste		

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

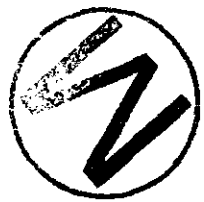
Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste stream is lab packs and excess chemicals that are generated throughout Rocky Flats.
WASTE STREAM SOURCE	RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Process knowledge based on general knowledge of the waste type or source.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W010	Handling:	CH	NMVP #:	RF 111	Stream Name:	Solidified Sludge - Bldg 774 / TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3150

AS-GENERATED EPA CODES

F002, F001, F005, F009, F007, F006, F003, D040, D011, D010, D009, D008, D007, D006, D005, D004

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	387.6	44.3	528.1
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	193.8	22.2	264.1
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	193.8	22.1	264.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	64.8		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

RF 111

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.81E+00
Pu-240	1.18E-01
Pu-239	5.16E-01
Am-241	2.03E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

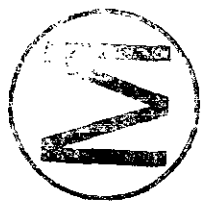
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	65.5	1.3	2.5	25.8	9.7	104.8
Totals	65.5	1.3	2.5	25.8	9.7	104.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	65.5	1.3	2.5	25.8	9.7	104.8
Totals	65.5	1.3	2.5	25.8	9.7	104.8

As-Generated Form: Stored: 65.5 Projected: 38.9 Total: 104.4

Final Waste Form: Stored: 65.5 Projected: 38.9 Total: 104.4



WASTE STREAM DESCRIPTION

This waste stream is a solid cemented sludge. It could have small amounts of free liquids in the bottom of the container.

WASTE STREAM SOURCE

Prior to 1979, IDC 001 consisted of sludge from the first-stage treatment only. When the first- and second-stage sludges were packaged separately, two vacuum filters were used. From 1979 to 1986, IDC 001 was a combination of the sludges from the first- and second-stage treatment processes. The sludge was produced chemically in the same fashion aqueous waste was treated to produce IDC 800 sludge. The solidification process for IDC 001 differs from the IDC 800 method of adding cement and diatomite as the sludge collects. Portland cement was added to the bottom of the IDC 001 drum prior to placing the sludge in the drum. In some cases additional Portland cement was added on top of the sludge.

Re: Section 8.2.11, RFETS doesn't expect sulfates, phosphates >1 wt%, but has no supporting data.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

According to the Building 774 Second-Stage Treatment Log (January 1981 to October 1989), prior to September 1984, the Building 774 aqueous waste treatment system received waste streams that are treated in the Building 374 Liquid Waste Treatment Facility. These streams affected the characterization of Building 774 solidified sludge until September 1985. The choice of the transition date of September 1984 is discussed in detail under the Subpopulation 55A discussion in the Backlog Baseline Book prepared by Rocky Flats.

Information contained in the November 1992 WSRIC Valve Vaults Book has been used to characterize waste streams treated in Building 774 prior to September 1984. The Valve Vaults book describes the process waste sent to Building 374 for treatment. The book was used because it is the only reference that provides detailed characterization information on waste that was sent to Building 774. Other references and interviews have been used to enhance or add to this information as it relates to the waste form.

In addition to the pipeline-transferred waste, wastes in containers compatible with the first- and second-stage treatment processes, were treated in Building 774. Some of these wastes exhibited hazardous characteristics. However, the EPA codes applicable to these wastes did not include additional codes that were different from those cited for pipeline-transferred wastes.

There may be other hazardous wastes that were treated in Building 774 during the 1970s that are no longer generated at Rocky Flats. For example, experimental decontamination solvents for the 1969 fire cleanup and effluent from the washing metal and gloves in Size Reduction were generated. No records were found specifying the wastes treated in this time frame.

Wastes sent to Building 774 exhibited the characteristics of ignitability (D001) and corrosivity (D002). However, the characteristic of ignitability, as defined in 40 CFR 261.21, does not apply to any of the Building 774 aqueous sludge subpopulations because they are not liquids, gases, or oxidizers. The characteristic of corrosivity (D002) as defined in 40 CFR 261.22 does not apply because the final waste form is solid. WEMS does not indicate any containers have been rejected for free liquids. The generator has, however, assigned D001 and/or D002 to specific containers. These characterizations are to be reviewed in CY 1995.

Wastes sent to Building 774 were intermittently contaminated with Resource Conservation and Recovery Act (RCRA) metals (EPA Codes D004-D011). Under the "derived from" rule, if a characteristic waste is treated, the final waste form is only a characteristic waste if it continues to exhibit the characteristic. A feed tank to the Building 774 aqueous sludge process, Tank 40, was sampled in 1994. However, one sample is not considered to be representative of the aqueous sludge population. Consequently, it will be assumed that Building 774 aqueous sludge generated prior to September 1985 exhibits the characteristic of toxicity for all of the RCRA metals (EPA Codes D004-D011) until TCLP analysis of the waste under EPA SW-846 proves the waste does not exceed toxicity characteristic criteria.

Based on the "mixture" rule and the "derived from" rule, Building 774 aqueous sludge would carry the listed EPA codes associated with wastes sent to Building 774 for treatment. The EPA Codes F001, F002, F003, and F005 are assigned to Building 774 aqueous sludge generated prior to September 1985 because wastes sent to Building 774 were contaminated with regulated spent solvents in the past. Headspace analyses detected F001, F002, F003, and F005 constituents at high levels. Building 774 aqueous sludge generated prior to September 1985 will not be considered as meeting F001, F002, F003 and F005 Land Disposal Restrictions (LDR)

treatment standards until sampling and analysis proves otherwise. Total analysis of the waste under EPA SW-846 is required.

The EPA codes F006, F007, and F009 are assigned to Building 774 aqueous sludge generated prior to September 1985. Building 774 received wastewaters contaminated with waste from electroplating operations in the past. Analytical results from a feed tank sample in 1994 are insufficient to determine the regulatory status of Building 774 aqueous sludge generated prior to September 1985. TCLP analysis of the waste under EPA SW-846 is required for the determination.

P- and U-listed EPA codes for discarded commercial chemical products will not be assigned to Building 774 aqueous sludge. Excess chemicals are stored on the plant site. However, there is no documentation supporting P- and U-listed waste codes for specific chemicals that were disposed of in process waste.

After August 1984, the Building 774 aqueous waste treatment system received only waste streams from Buildings 771 and 774. Closure, decontamination, or cleaning of the Building 774 treatment system did not occur. However, considering the flow rates through the system and the system volume, it is estimated that the first- and second-stage system volumes were turned over 60 and 12 times a year, respectively. After one year of flushing, it can be assumed that no previous waste resided in the system, so the "old" waste codes can be eliminated from the sludge.
Information contained in the WSRIC Building 771 Book and the WSRIC Building 774 Book was used to characterize waste streams treated in Building 774. Other references and interviews were used to enhance or add to this information as it relates to the waste form.

In addition to the pipeline-transferred waste, wastes in containers that were compatible with the first- and second-stage treatment processes were treated in Building 774. Some of the wastes in containers exhibited hazardous characteristics. However, the EPA codes applicable to these wastes did not include additional codes that were different from those cited for pipeline transferred wastes.

EPA Codes D001 and D002 are not assigned to this subpopulation. P-and U-listed waste codes are also not assigned. The characterization rationale for previously generated waste is the same regarding these waste codes. The rationale is presented under the Subpopulation 55A discussion.

Wastes sent to Building 774 after August 1984 were intermittently contaminated with cadmium (D006), chromium (D007), and silver (D011). It is assumed that Building 774 aqueous sludge generated after August 1985 exhibits the characteristic of toxicity for these metals. EPA Codes D006, D007, and D011 are assigned to this waste following the rationale presented for RCRA metals under the Subpopulation 55A discussion.

EPA codes for RCRA organics are not applicable to Building 774 aqueous sludge generated after August 1985. After August 1984, Building 774 no longer received wastes contaminated with RCRA organics. Analytical results from aqueous sludge samples are limited. One sample was analyzed for volatile organic constituents in 1988. The F001, F002, F003, and F005 LDR treatment standards and toxicity characteristic limits were not exceeded for the detected contaminants. No Quality Control information on the sample analysis is available. It is uncertain if the organic compounds are actually in the sludge or are a result of sample or lab contamination.

Validated headspace analyses performed on drums containing aqueous sludge are also considered in the characteristic of the waste. It is not known how headspace gas constituent levels related to the actual composition of the waste. However, using a partitioning coefficient model designed for environmental media, calculations were performed on headspace analytical results to estimate organic levels in the sludge. The highest organic levels of detected toxicity characteristic constituents from headspace analysis were used in the calculation of waste contaminant levels.

The analytical results from an aqueous sludge sample in 1988 and calculated constituent levels from headspace analytical results both indicate that the waste is below toxicity characteristic criteria for RCRA organics.

The EPA Codes F001, F002, F003, and F005 are not applicable to Building 774 aqueous sludge generated after August 1985. Listed wastes ceased being treated in Building 774 in August 1984. Extensive research was performed by Waste Technical Support to determine if organic and aqueous lab solutions sent to Building 771 for plutonium recovery were treated in Building 774. The research concluded the organic phase was removed by the generating laboratory prior to shipment to Building 771. If the organic phase contained a listed solvent, the separated aqueous phase is not listed waste under the "mixture" rule.

The trace levels of volatile organics found in the sludge in 1988 can be discounted due to the very low levels detected and the lack of quality control data available for the analysis. The headspace analysis for sludge produced after August 1985 shows slight levels of some volatile organics, but the levels are an order of magnitude lower

	than pre-August 1985 samples. It is not known how the headspace gas analysis relates to the actual composition of the waste. However, there is good process knowledge that no spent solvents were sent to the Building 774 aqueous waste process after August 1984, so a listed EPA waste code cannot be applied to aqueous sludge generated after a year of flushing. Sludge from Building 374 is assigned F039 because Interceptor Trench System water (leachate) reports to this sludge.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP has assumed this waste to be LDR based on process knowledge characterization and limited analytical data. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Basis for determining LDR storage prohibition status is based pirmarily on process knowledge. WASTE_ PACK: Waste is packaged in 55 gallon DOT 7A Type A Drums. The drums are lined with one rigid polyethylene liner and two bag liners.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W013	Handling:	CH	NMVP #:	RF 112	Stream Name:	Solidified Organics - Bldg 774/TRM	Inventory Date:	10/20/94
Local ID:	IDC 801	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Organics	Waste Matrix Code:	S3222

AS-GENERATED EPA CODES

D040, F006, F005, F003, F001, F009, D019, D011, D010, D009, D008, D007, D006, D005, D004, F007, F002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	987.1	367.1	1375.6
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	64.8		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

RF 112

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.56E+01
Pu-240	1.08E-01
Pu-239	4.70E-01
Am-241	2.65E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	109.0	0.0	0.0	0.0	0.0	109.0
Totals	109.0	0.0	0.0	0.0	0.0	109.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	109.0	0.0	0.0	0.0	0.0	109.0
Totals	109.0	0.0	0.0	0.0	0.0	109.0

As-Generated Form:	Stored:	109.0	Projected:	0.0	Total:	109.0	Final Waste Form:	Stored:	109.0	Projected:	0.0	Total:	109.0

WASTE STREAM DESCRIPTION

This waste stream consists of a cemented solid, with some free liquids. It can also have some small chunks in it.

WASTE STREAM SOURCE

Solidified organics are cemented waste oils and solvents that were generated as a result of machining and tool degreasing. Waste oil was transferred primarily from Buildings 707 and 777. Cementation was performed in Waste Management Unit (WMU) 56, Room 210, Building 774. The earliest generation date for the backlog inventory is June 1984. The Organic and Sludge Immobilization System (OASIS) Process generating solidified organics stopped in January 1990. These containers are assigned IDC 0003 and 0801.

Solidified organics waste currently stored at Rocky Flats was generated by the Grease Plant Process or the OASIS Process. The Grease Plant Process operated until November 1985. The OASIS Process began operating in November 1985. The last OASIS runs occurred in 1991.

Tanks T-1 and T-2, Tank T-374A, and Tanks T-13 and T-14 have all received waste oils and solvents for treatment at various times. The waste oils and solvents were generated primarily by processes in Buildings 707 and 777. Solvent-contaminated waste oils were generated by plutonium machining and tool degreasing. Ultrasonic cleaners consisting of trichloroethane baths were used to clean parts. Buildings 707 and 777 also cleaned metal turnings and scrap in carbon tetrachloride baths before forming them into briquettes.

Laboratory wastes in bottles were poured into containers of solidified organics in the past. Laboratory waste contaminants included organophosphates and nitrobenzene. According to the generator, bottled laboratory wastes were poured into five or fewer solidified organics containers. However, there is no documentation specifying the individual drums.

The majority of wastes fed to the solidified organics generation processes consisted of plutonium-contaminated oils and solvents. A cutting oil, usually Texaco Regal "A," flowed onto a part during machining. After machining, the part was rinsed to remove residual oil. Various solvents were used to rinse machined parts and degrease tools. These included trichloroethylene and tetrachloroethylene. *According to the generator, trichloroethylene and tetrachloroethylene use stopped in 1973.*

Spent carbon tetrachloride and trichloroethane from cleaning baths were also fed to the solidified organics generation processes. Parts for assembly from Buildings 707 and 777 were cleaned in ultrasonic wash tanks before welding. The tanks contained 15 gallons of trichloroethane. In another cleaning process, metal turnings and scraps were placed into perforated metal baskets and dipped into a series of tanks containing carbon tetrachloride. Each of the steel tanks held 4 gallons of solvent. The cleaned metal was then formed into briquettes. Carbon tetrachloride and trichloroethane baths were replaced periodically.

Waste oil and solvents were drained and pumped into storage tanks. The wastes were then filtered to recover the actinides. *After filtering, the plutonium and uranium* concentrations in the waste were measured. If the concentrations were above specified transfer limits, the waste was refiltered in the Ful-Flo filtration system. When the concentrations of plutonium and uranium were below transfer limits, the waste was transferred to the solidified organics generation processes in Building 774.

Tanks T-1 and T-2, Tank T-374A, and Tanks T-13 and T-14 received waste oils from the same processes in Buildings 707 and 777. Tanks T-1 and T-2 fed waste oils to the Grease Plant Process and the OASIS Process. Tank T-374A began feeding waste oils to the OASIS Process after damage to Tanks T-1 and T-2 was identified and they were removed from operation. Tanks T-13 and T-14 began feeding waste oils after Tank T-374A. Tanks T-374A, T-13, and T-14 were used simultaneously until Tank T-374A was removed from operation. Tanks T-13 and T-14 continued feeding the OASIS Process until it stopped in January 1990.

In the Grease Plant Process, waste oil and Microcel E (calcium silicate) were fed separately into a continuous mixer. Small amounts of Oil Dri were sometimes added to the mixture as well. The amounts of materials added to the mixture were not metered. However, the operator would adjust the composition if the outgoing mixture did not have a paste-like consistency. The mixture would then drop into an O-ring bag contained in a 55-gallon drum. Drums of solidified organics from the Grease Plant Process were subsequently transported to the Size Reduction Facility in Building 776 for inspection and sealing.

OASIS was a batch-type process generating one drum per run. Waste oils were pumped into an O-ring bag contained in a 55-gallon drum attached to the bottom of the OASIS glovebox. Envirostone emulsifier, gypsum cement, and accelerator were also metered into the bag. House water, which had not been used in any other processes, was added to the mixture as well. A Lightning Mixer was lowered into the drum after all of the materials were added. The amount of materials added to the mixture was operator controlled.

The drums were transferred to WMU 73, Room 241, after they had been inspected and sealed. Solidified organics containers from the OASIS process were stored in Building 774 until they were transferred to Building 371 for nondestructive assay (NDA). After RTR, drums were usually sent to Building 664, where they were stored until shipment off site. Solidified organics waste is not being shipped at this time. Consequently, Building 664 has reached capacity and solidified organics are also being stored in Buildings 371, 569, 774, and 776.

CURRENT CONTAINER COMMENTS N/A

EPA COMMENTS

Solidified organics were generated by the OASIS process after November 11, 1985.

Analytical information regarding solidified organics was not found in the WSRIC Sampling and Analysis database. However, non-WSRIC analytical data from 1988 and 1989 are considered in the characterization of the waste. The analytical method was not specified for the results. However, Toxicity Characteristic Leaching Procedure (TCLP) analysis was not typically performed in 1988 and 1989. The results are assumed to be from Totals analysis. Validated headpsace analysis performed on drums containing solidified organics are considered as well. Headspace analytical results support the 1988 and 1989 results from sampling and analysis.

Wastes received by Tanks T-1 and T-2, T-374A, and T-13 and T-14 were intermittently contaminated with Resource Conservation and Recovery Act (RCRA) organics. Carbon tetrachloride (D019), nitrobenzene (D036), and trichloroethylene (D040) were cited contaminants. Nitrobenzene was a contaminant in nonroutine laboratory waste and was introduced into five or fewer drums. Contaminated drums could be not be identified. However, the solidified organics population, as a whole, does not exhibit the toxicity characteristic for nitrobenzene.

Sampling and analysis of three solidified organics samples in 1988 and 1989 indicated the waste exceeded toxicity characteristic criteria for carbon tetrachloride (EPA Code D019). The waste did not exceed toxicity characteristic criteria for any of the other cited RCRA organics. TCLP analysis of the waste under EPA SW-846 is required to support the analytical results and confirm the assumptions.

Based on the "mixture" rule and the "derived-from" rule, solidified organics would carry the listed EPA codes associated with the wastes fed to the solidified organics generation processes. EPA Codes F001 and F002 are assigned to all solidified organics because wastes received by Tanks T-1 and T-2, T-374A, and T-13 and T-14 were contaminated with regulated spent solvents in the past.

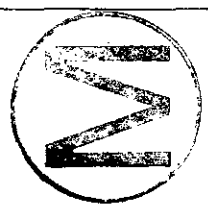
Sampling and analysis of solidified organics waste in 1988 and 1989 indicated the waste exceeded the F001 and F002 LDR treatment standards for carbon tetrachloride and 1,1,1-trichloroethane. The analyses found detectable concentrations of other F001 and F002 constituents, as well. Total analysis of the waste under EPA SW-846 is required to confirm these results.

Based on the "mixture" rule and the "derived from" rule, solidified organics would carry the listed EPA codes associated with wastes set to Building 774 for treatment. The EPA Codes F001, F002, F003, and F005 are assigned because wastes set to Building 774 were contaminated with regulated spent solvents in the past. Headspace analyses detected F001, F002, F003, and F005 constituents at elevated levels. Solidified organics will not be considered as meeting F001, F002, F003, and F005 Land Disposal restrictions (LDR) treatment standards until sampling and analysis proves otherwise. Total analysis of the waste under EPA SE-846 is required.

The EPA Codes F006, F007, and F009 are assigned because of contamination with waste from electroplating operations.

P- and U-listed EPA codes for discarded commercial chemical products will not be assigned to solidified organics. Excess chemicals are stored on the plant site. However, there is no documentation supporting P- and U-listed waste codes for specific chemicals that were disposed of in process waste. Cited laboratory chemicals like nitrobenzene were used for their intended purpose as reagents and were not discarded commercial chemical products.

MANAGEMENT COMMENTS N/A



ACCEPTANCE COMMENTS	RFP has assumed this waste to be LDR based on process knowledge characterization, and one sample analyzed for volatiles in 1988. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. The waste is stored in 55-gallon carbon steel drums with a rigid polyethylene liner and one or two bag liners.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W010	Handling:	CH	NMVP #:	RF 111	Stream Name:	Solidified Sludge - Bldg 774 / TRM	Inventory Date:	10/20/95
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3150

AS-GENERATED EPA CODES

F002, F001, F005, F039, F009, F007, F006, F003, D010, D008, D007, D006, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	317.6	262.4	414.5
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	262.0	216.5	342.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	55.6	45.9	72.5
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	64.8		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

RF 111

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.81E+00
Pu-240	1.18E-01
Pu-239	5.16E-01
Am-241	2.03E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	2.9	0.1	0.1	1.3	0.5	4.9
Totals	2.9	0.1	0.1	1.3	0.5	4.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.9	0.1	0.1	1.2	0.6	4.9
Totals	2.9	0.1	0.1	1.2	0.6	4.9

As-Generated Form: Stored: 2.9 Projected: 2.1 Total: 5.0

Final Waste Form: Stored: 2.9 Projected: 2.1 Total: 5.0

WASTE STREAM DESCRIPTION

This waste stream is a solid cemented sludge. It could have small amounts of free liquids in the bottom of the container.

WASTE STREAM SOURCE

Prior to 1979, IDC 001 consisted of sludge from the first-stage treatment only. When the first- and second-stage sludges were packaged separately, two vacuum filters were used. From 1979 to 1986, IDC 001 was a combination of the sludges from the first- and second-stage treatment processes. The sludge was produced chemically in the same fashion aqueous waste was treated to produce IDC 800 sludge. The solidification process for IDC 001 differs from the IDC 800 method of adding cement and diatomite as the sludge collects. Portland cement was added to the bottom of the IDC 001 drum prior to placing the sludge in the drum. In some cases additional Portland cement was added on top of the sludge.

Re: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

According to the Building 774 Second-Stage Treatment Log (January 1981 to October 1989), prior to September 1984, the Building 774 aqueous waste treatment system received waste streams that are treated in the Building 374 Liquid Waste Treatment Facility. These streams affected the characterization of Building 774 solidified sludge until September 1985. The choice of the transition date of September 1984 is discussed in detail under the Subpopulation 55A discussion in the Backlog Baseline Book prepared by Rocky Flats.

Information contained in the November 1992 WSRIC Valve Vaults Book has been used to characterize waste streams treated in Building 774 prior to September 1984. The Valve Vaults book describes the process waste sent to Building 374 for treatment. The book was used because it is the only reference that provides detailed characterization information on waste that was sent to Building 774. Other references and interviews have been used to enhance or add to this information as it relates to the waste form.

In addition to the pipeline-transferred waste, wastes in containers compatible with the first- and second-stage treatment processes, were treated in Building 774. Some of these wastes exhibited hazardous characteristics. However, the EPA codes applicable to these wastes did not include additional codes that were different from those cited for pipeline-transferred wastes.

There may be other hazardous wastes that were treated in Building 774 during the 1970s that are no longer generated at Rocky Flats. For example, experimental decontamination solvents for the 1969 fire cleanup and effluent from the washing metal and gloves in Size Reduction were generated. No records were found specifying the wastes treated in this time frame.

Wastes sent to Building 774 exhibited the characteristics of ignitability (D001) and corrosivity (D002). However, the characteristic of ignitability, as defined in 40 CFR 261.21, does not apply to any of the Building 774 aqueous sludge subpopulations because they are not liquids, gases, or oxidizers. The characteristic of corrosivity (D002) as defined in 40 CFR 261.22 does not apply because the final waste form is solid. WEMS does not indicate any containers have been rejected for free liquids. The generator has, however, assigned D001 and/or D002 to specific containers. These characterizations are to be reviewed in CY 1995.

Wastes sent to Building 774 were intermittently contaminated with Resource Conservation and Recovery Act (RCRA) metals (EPA Codes D004-D011). Under the "derived from" rule, if a characteristic waste is treated, the final waste form is only a characteristic waste if it continues to exhibit the characteristic. A feed tank to the Building 774 aqueous sludge process, Tank 40, was sampled in 1994. However, one sample is not considered to be representative of the aqueous sludge population. Consequently, it will be assumed that Building 774 aqueous sludge generated prior to September 1985 exhibits the characteristic of toxicity for all of the RCRA metals (EPA Codes D004-D011) until TCLP analysis of the waste under EPA SW-846 proves the waste does not exceed toxicity characteristic criteria.

Based on the "mixture" rule and the "derived from" rule, Building 774 aqueous sludge would carry the listed EPA codes associated with wastes sent to Building 774 for treatment. The EPA Codes F001, F002, F003, and F005 are assigned to Building 774 aqueous sludge generated prior to September 1985 because wastes sent to Building 774 were contaminated with regulated spent solvents in the past. Headspace analyses detected F001, F002, F003, and F005 constituents at high levels. Building 774 aqueous sludge generated prior to September 1985 will not be considered as meeting F001, F002, F003 and F005 Land Disposal Restrictions (LDR)

treatment standards until sampling and analysis proves otherwise. Total analysis of the waste under EPA SW-846 is required.

The EPA codes F006, F007, and F009 are assigned to Building 774 aqueous sludge generated prior to September 1985. Building 774 received wastewaters contaminated with waste from electroplating operations in the past. Analytical results from a feed tank sample in 1994 are insufficient to determine the regulatory status of Building 774 aqueous sludge generated prior to September 1985. TCLP analysis of the waste under EPA SW-846 is required for the determination.

P- and U-listed EPA codes for discarded commercial chemical products will not be assigned to Building 774 aqueous sludge. Excess chemicals are stored on the plant site. However, there is no documentation supporting P- and U-listed waste codes for specific chemicals that were disposed of in process waste.

After August 1984, the Building 774 aqueous waste treatment system received only waste streams from Buildings 771 and 774. Closure, decontamination, or cleaning of the Building 774 treatment system did not occur. However, considering the flow rates through the system and the system volume, it is estimated that the first- and second-stage system volumes were turned over 60 and 12 times a year, respectively. After one year of flushing, it can be assumed that no previous waste resided in the system, so the "old" waste codes can be eliminated from the sludge.
Information contained in the WSRIC Building 771 Book and the WSRIC Building 774 Book was used to characterize waste streams treated in Building 774. Other references and interviews were used to enhance or add to this information as it relates to the waste form.

In addition to the pipeline-transferred waste, wastes in containers that were compatible with the first- and second-stage treatment processes were treated in Building 774. Some of the wastes in containers exhibited hazardous characteristics. However, the EPA codes applicable to these wastes did not include additional codes that were different from those cited for pipeline transferred wastes.

EPA Codes D001 and D002 are not assigned to this subpopulation. P-and U-listed waste codes are also not assigned. The characterization rationale for previously generated waste is the same regarding these waste codes. The rationale is presented under the Subpopulation 55A discussion.

Wastes sent to Building 774 after August 1984 were intermittently contaminated with cadmium (D006), chromium (D007), and silver (D011). It is assumed that Building 774 aqueous sludge generated after August 1985 exhibits the characteristic of toxicity for these metals. EPA Codes D006, D007, and D011 are assigned to this waste following the rationale presented for RCRA metals under the Subpopulation 55A discussion.

EPA codes for RCRA organics are not applicable to Building 774 aqueous sludge generated after August 1985. After August 1984, Building 774 no longer received wastes contaminated with RCRA organics. Analytical results from aqueous sludge samples are limited. One sample was analyzed for volatile organic constituents in 1988. The F001, F002, F003, and F005 LDR treatment standards and toxicity characteristic limits were not exceeded for the detected contaminants. No Quality Control information on the sample analysis is available. It is uncertain if the organic compounds are actually in the sludge or are a result of sample or lab contamination.

Validated headspace analyses performed on drums containing aqueous sludge are also considered in the characteristic of the waste. It is not known how headspace gas constituent levels related to the actual composition of the waste. However, using a partitioning coefficient model designed for environmental media, calculations were performed on headspace analytical results to estimate organic levels in the sludge. The highest organic levels of detected toxicity characteristic constituents from headspace analysis were used in the calculation of waste contaminant levels.

The analytical results from an aqueous sludge sample in 1988 and calculated constituent levels from headspace analytical results both indicate that the waste is below toxicity characteristic criteria for RCRA organics.

The EPA Codes F001, F002, F003, and F005 are not applicable to Building 774 aqueous sludge generated after August 1985. Listed wastes ceased being treated in Building 774 in August 1984. Extensive research was performed by Waste Technical Support to determine if organic and aqueous lab solutions sent to Building 771 for plutonium recovery were treated in Building 774. The research concluded the organic phase was removed by the generating laboratory prior to shipment to Building 771. If the organic phase contained a listed solvent, the separated aqueous phase is not listed waste under the "mixture" rule.

The trace levels of volatile organics found in the sludge in 1988 can be discounted due to the very low levels detected and the lack of quality control data available for the analysis. The headspace analysis for sludge produced after August 1985 shows slight levels of some volatile organics, but the levels are an order of magnitude lower

	than pre-August 1985 samples. It is not known how the headspace gas analysis relates to the actual composition of the waste. However, there is good process knowledge that no spent solvents were sent to the Building 774 aqueous waste process after August 1984, so a listed EPA waste code cannot be applied to aqueous sludge generated after a year of flushing. Sludge from Building 374 is assigned F039 because Interceptor Trench System water (leachate) reports to this sludge.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP has assumed this waste to be LDR based on process knowledge characterization and limited analytical data. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_ PACK: Waste is packaged in 55 gallon DOT 7A Type A Drums. The drums are lined with one rigid polyethylene liner and two bag liners.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W097	Handling: CH	NMVP #: RF 114	Stream Name: Solidified Process Solids/TRM		Inventory Date: 10/20/94
Local ID: IDC 806	Type: MTRU	Generator Site: RF	Final Waste Form: Solidified Inorganics		Waste Matrix Code: Z1110

AS-GENERATED EPA CODES

D008, D004, D005, D007, D009, D010, D011, F003, D006, F005, F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	489.0	376.2	635.7
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	135.8	104.5	176.5
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	73.1	56.2	95.1
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	64.8		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

RF 114

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

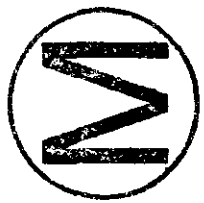
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.0	0.0	0.0	0.0	0.0	0.0
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	62.1	11.8	491.0	545.8	1110.7
Totals	0.0	62.1	11.8	491.0	545.8	1110.7

As-Generated Form: Stored: 0.0 Projected: 0.0 Total: 0.0

Final Waste Form: Stored: 0.0 Projected: 1110.7 Total: 1110.7



WASTE STREAM DESCRIPTION	This waste stream represents the solidified final form of all particulate and sludge type materials. Particulates and sludge type materials are immobilized with Portland cement. The cemented wastes are cast into 1-gallon molds and allowed to cure prior to packaging. This is the final waste form for Firebrick, Pulverized or Fines/TRM (RF-W036), Incinerator Ash/TRM (RF-W040), Particulate Sludge/TRM (RF-W068), and Sand, Slag, and Crucible/TRM (RF-W059). IDC 806 - All inorganic particulate and inorganic sludge waste must be immobilized by processing into a solid and identified as IDC 806.
WASTE STREAM SOURCE	This is a new waste stream and includes IDC 806 only. It represents the solidified final form of Firebrick, Pulverized or Fines/TRM (RF-W036), Incinerator Ash/TRM (RF-W040), Particulate Sludge/TRM (RF-W068), and Sand, Slag, and Crucible/TRM (RF-W059). Particulates and sludge type materials are immobilized with Portland Cement. The cemented wastes are cast into 1-gallon molds and allowed to cure prior to packaging. There is currently no inventory of this waste at Rocky Flats. However, generation of this waste is expected as the plant progresses in its mission of environmental cleanup and waste management. Therefore, some IDC 806 material is expected to be generated in the 20-year horizon as waste management and disposal activities continue. For these reasons, this waste must be reported in the Baseline Inventory Report; it is included here to maintain consistency between this report and the BIR.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The characterization basis for this waste is to apply EPA hazardous waste numbers from the four feed materials identified above that would be expected to apply to the final solidified waste form as well. These are projected hazardous waste numbers and may not apply after the waste is generated and analytical work completed. Projected list of contaminants based on those present in source wastes.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Volumes include final form waste from treating the following streams: RF-MT0377, RF-MT0378, RF-MT0420, RF-MT0425, RF-MT0292, RF-MT0299, RF-MT0372, RF-MT0391, RF-MT0392, RF-MT0393.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W010	Handling:	CH	NMVP #:	RF 111	Stream Name:	Solidified Sludge - Bldg 374 / TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3150

AS-GENERATED EPA CODES

F002, F001, F039, F009, F007, F005, F003, D011, D010, D009, D008, D007, D006, D005, D004, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	409.8	279.8	730.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	338.1	230.8	602.2
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	71.7	49.0	127.8
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	64.8		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

RF 111

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.81E+00
Pu-240	1.18E-01
Pu-239	5.16E-01
Am-241	2.03E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	73.4	1.3	2.7	27.6	10.3	115.5
Totals	73.4	1.3	2.7	27.6	10.3	115.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	73.4	1.3	2.7	27.6	10.3	115.5
Totals	73.4	1.3	2.7	27.6	10.3	115.5

As-Generated Form: Stored: 73.4 Projected: 41.6 Total: 115.0

Final Waste Form: Stored: 73.4 Projected: 41.6 Total: 115.0

WASTE STREAM DESCRIPTION

This waste stream is a solid cemented sludge. It could have small amounts of free liquids in the bottom of the container.

WASTE STREAM SOURCE

Prior to 1979, IDC 001 consisted of sludge from the first-stage treatment only. When the first- and second-stage sludges were packaged separately, two vacuum filters were used. From 1979 to 1986, IDC 001 was a combination of the sludges from the first- and second-stage treatment processes. The sludge was produced chemically in the same fashion aqueous waste was treated to produce IDC 800 sludge. The solidification process for IDC 001 differs from the IDC 800 method of adding cement and diatomite as the sludge collects. Portland cement was added to the bottom of the IDC 001 drum prior to placing the sludge in the drum. In some cases additional Portland cement was added on top of the sludge.

Re: Section 8.2.11, RFETS doesn't expect sulfates, phosphates >1 wt%, but has no supporting data.

CURRENT CONTAINER COMMENTS

N/A

EPA COMMENTS

According to the Building 774 Second-Stage Treatment Log (January 1981 to October 1989), prior to September 1984, the Building 774 aqueous waste treatment system received waste streams that are treated in the Building 374 Liquid Waste Treatment Facility. These streams affected the characterization of Building 774 solidified sludge until September 1985. The choice of the transition date of September 1984 is discussed in detail under the Subpopulation 55A discussion in the Backlog Baseline Book prepared by Rocky Flats.

Information contained in the November 1992 WSRIC Valve Vaults Book has been used to characterize waste streams treated in Building 774 prior to September 1984. The Valve Vaults book describes the process waste sent to Building 374 for treatment. The book was used because it is the only reference that provides detailed characterization information on waste that was sent to Building 774. Other references and interviews have been used to enhance or add to this information as it relates to the waste form.

In addition to the pipeline-transferred waste, wastes in containers compatible with the first- and second-stage treatment processes, were treated in Building 774. Some of these wastes exhibited hazardous characteristics. However, the EPA codes applicable to these wastes did not include additional codes that were different from those cited for pipeline-transferred wastes.

There may be other hazardous wastes that were treated in Building 774 during the 1970s that are no longer generated at Rocky Flats. For example, experimental decontamination solvents for the 1969 fire cleanup and effluent from the washing metal and gloves in Size Reduction were generated. No records were found specifying the wastes treated in this time frame.

Wastes sent to Building 774 exhibited the characteristics of ignitability (D001) and corrosivity (D002). However, the characteristic of ignitability, as defined in 40 CFR 261.21, does not apply to any of the Building 774 aqueous sludge subpopulations because they are not liquids, gases, or oxidizers. The characteristic of corrosivity (D002) as defined in 40 CFR 261.22 does not apply because the final waste form is solid. WEMS does not indicate any containers have been rejected for free liquids. The generator has, however, assigned D001 and/or D002 to specific containers. These characterizations are to be reviewed in CY 1995.

Wastes sent to Building 774 were intermittently contaminated with Resource Conservation and Recovery Act (RCRA) metals (EPA Codes D004-D011). Under the "derived from" rule, if a characteristic waste is treated, the final waste form is only a characteristic waste if it continues to exhibit the characteristic. A feed tank to the Building 774 aqueous sludge process, Tank 40, was sampled in 1994. However, one sample is not considered to be representative of the aqueous sludge population. Consequently, it will be assumed that Building 774 aqueous sludge generated prior to September 1985 exhibits the characteristic of toxicity for all of the RCRA metals (EPA Codes D004-D011) until TCLP analysis of the waste under EPA SW-846 proves the waste does not exceed toxicity characteristic criteria.

Based on the "mixture" rule and the "derived from" rule, Building 774 aqueous sludge would carry the listed EPA codes associated with wastes sent to Building 774 for treatment. The EPA Codes F001, F002, F003, and F005 are assigned to Building 774 aqueous sludge generated prior to September 1985 because wastes sent to Building 774 were contaminated with regulated spent solvents in the past. Headspace analyses detected F001, F002, F003, and F005 constituents at high levels. Building 774 aqueous sludge generated prior to September 1985 will not be considered as meeting F001, F002, F003 and F005 Land Disposal Restrictions (LDR)

treatment standards until sampling and analysis proves otherwise. Total analysis of the waste under EPA SW-846 is required.

The EPA codes F006, F007, and F009 are assigned to Building 774 aqueous sludge generated prior to September 1985. Building 774 received wastewaters contaminated with waste from electroplating operations in the past. Analytical results from a feed tank sample in 1994 are insufficient to determine the regulatory status of Building 774 aqueous sludge generated prior to September 1985. TCLP analysis of the waste under EPA SW-846 is required for the determination.

P- and U-listed EPA codes for discarded commercial chemical products will not be assigned to Building 774 aqueous sludge. Excess chemicals are stored on the plant site. However, there is no documentation supporting P- and U-listed waste codes for specific chemicals that were disposed of in process waste.

After August 1984, the Building 774 aqueous waste treatment system received only waste streams from Buildings 771 and 774. Closure, decontamination, or cleaning of the Building 774 treatment system did not occur. However, considering the flow rates through the system and the system volume, it is estimated that the first- and second-stage system volumes were turned over 60 and 12 times a year, respectively. After one year of flushing, it can be assumed that no previous waste resided in the system, so the "old" waste codes can be eliminated from the sludge.
Information contained in the WSRIC Building 771 Book and the WSRIC Building 774 Book was used to characterize waste streams treated in Building 774. Other references and interviews were used to enhance or add to this information as it relates to the waste form.

In addition to the pipeline-transferred waste, wastes in containers that were compatible with the first- and second-stage treatment processes were treated in Building 774. Some of the wastes in containers exhibited hazardous characteristics. However, the EPA codes applicable to these wastes did not include additional codes that were different from those cited for pipeline transferred wastes.

EPA Codes D001 and D002 are not assigned to this subpopulation. P-and U-listed waste codes are also not assigned. The characterization rationale for previously generated waste is the same regarding these waste codes. The rationale is presented under the Subpopulation 55A discussion.

Wastes sent to Building 774 after August 1984 were intermittently contaminated with cadmium (D006), chromium (D007), and silver (D011). It is assumed that Building 774 aqueous sludge generated after August 1985 exhibits the characteristic of toxicity for these metals. EPA Codes D006, D007, and D011 are assigned to this waste following the rationale presented for RCRA metals under the Subpopulation 55A discussion.

EPA codes for RCRA organics are not applicable to Building 774 aqueous sludge generated after August 1985. After August 1984, Building 774 no longer received wastes contaminated with RCRA organics. Analytical results from aqueous sludge samples are limited. One sample was analyzed for volatile organic constituents in 1988. The F001, F002, F003, and F005 LDR treatment standards and toxicity characteristic limits were not exceeded for the detected contaminants. No Quality Control information on the sample analysis is available. It is uncertain if the organic compounds are actually in the sludge or are a result of sample or lab contamination.

Validated headspace analyses performed on drums containing aqueous sludge are also considered in the characteristic of the waste. It is not known how headspace gas constituent levels related to the actual composition of the waste. However, using a partitioning coefficient model designed for environmental media, calculations were performed on headspace analytical results to estimate organic levels in the sludge. The highest organic levels of detected toxicity characteristic constituents from headspace analysis were used in the calculation of waste contaminant levels.

The analytical results from an aqueous sludge sample in 1988 and calculated constituent levels from headspace analytical results both indicate that the waste is below toxicity characteristic criteria for RCRA organics.

The EPA Codes F001, F002, F003, and F005 are not applicable to Building 774 aqueous sludge generated after August 1985. Listed wastes ceased being treated in Building 774 in August 1984. Extensive research was performed by Waste Technical Support to determine if organic and aqueous lab solutions sent to Building 771 for plutonium recovery were treated in Building 774. The research concluded the organic phase was removed by the generating laboratory prior to shipment to Building 771. If the organic phase contained a listed solvent, the separated aqueous phase is not listed waste under the "mixture" rule.

The trace levels of volatile organics found in the sludge in 1988 can be discounted due to the very low levels detected and the lack of quality control data available for the analysis. The headspace analysis for sludge produced after August 1985 shows slight levels of some volatile organics, but the levels are an order of magnitude lower

	than pre-August 1985 samples. It is not known how the headspace gas analysis relates to the actual composition of the waste. However, there is good process knowledge that no spent solvents were sent to the Building 774 aqueous waste process after August 1984, so a listed EPA waste code cannot be applied to aqueous sludge generated after a year of flushing. Sludge from Building 374 is assigned F039 because Interceptor Trench System water (leachate) reports to this sludge.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP has assumed this waste to be LDR based on process knowledge characterization and limited analytical data. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_ PACK: Waste is packaged in 55 gallon DOT 7A Type A Drums. The drums are lined with one rigid polyethylene liner and two bag liners.
FINAL FORM COMMENTS	The projections given in Section 8.2.15.1.13 are in cubic meters

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W012	Handling:	CH	NMVP #:	None	Stream Name:	Combustibles/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5390

AS-GENERATED EPA CODES

F002, F001, D008, D007, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	*0.0*	*0.0*	*0.0*
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

None

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	5.17E+00
Pu-240	2.17E-01
Pu-239	9.49E-01
Am-241	7.34E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

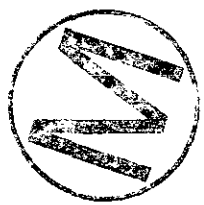
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4



WASTE STREAM DESCRIPTION	This waste consits of rags, paper, cloth, coveralls, plastic, rubber, and wood. The waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills. The bulk of these wastes are packaged in 55-gallon drums with one rigid polyethylene liner and several bag liners. In addition, the waste may be packaged in DOT 7A Type A metal boxes which are lined with a fiberboard liner and a PVC liner or standard TRUPACT-II container. The containers are then assayed and transferred to interim status storage areas. These wastes have been shipped to the INEL for stroage in the past. RF-330, 356, 337, 821, 822, 853, 831, 832, 833. Predominantly combustible debris.
WASTE STREAM SOURCE	Item Description 831, Combustibles, Dry, TRU Mixed Waste Dry combustibles such as paper, cloth, wood, etc. This waste has been identified as being low level mixed waste. This stream is generated from Facility Operation, Analytical Laboratories, R&D Laboratories, and Spill Cleanups. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt. %, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	A- Process knowledge based upon general knowledge of waste type or source (e.g., there is some probability of a waste constituent being absent or present). Bounding analytical data have not been compiled in a form that is compatible with this report. This effort has been completed and the results are available in the Final Backlog Baseline Book dated September 26, 1994.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	GENERAAREA: Numerous locations throughout RFP.GENOPERATI: RECLASS_CO: Rocky Flats assays wastes to determine waste type instead of relying on process knowledge or historical data. For this reason, the potential for reclassification has not been analyzed.CATION: Not applicable OTHER_CHAR: No information available. RFP has assumed this waste to be LDR based on process knowledge characterization, and one sample analyzed for volatiles in 1988. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its genration date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. Analytical data are limited. WASTE_PACK: This waste is stored in 55 gallon carbon steel drums with one rigid polyethylene liner and several bag liners and standard metal boxes.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W012	Handling: CH	NMVP #: None	Stream Name: Combustibles/TRM		Inventory Date: 10/20/94
Local ID: None	Type: MTRU	Generator Site: RF	Final Waste Form: Combustible		Waste Matrix Code: S5390

AS-GENERATED EPA CODES

F002, F001, F005, F003, D011, D008, D007, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

None

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	5.17E+00
Pu-240	2.17E-01
Pu-239	9.49E-01
Am-241	7.34E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 2.1 Projected: 0.0 Total: 2.1

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste consits of rags, paper, cloth, coveralls, plastic, rubber, and wood. The waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills. The bulk of these wastes are packaged in 55-gallon drums with one rigid polyethylene liner and several bag liners. In addition, the waste may be packaged in DOT 7A Type A metal boxes which are lined with a fiberboard liner and a PVC liner or standard TRUPACT-II container. The containers are then assayed and transferred to interim status storage areas. These wastes have been shipped to the INEL for stroage in the past. RF-330, 356, 337, 821, 822, 853, 831, 832, 833. Predominantly combustible debris.
WASTE STREAM SOURCE	Wet combustible transuranic wastes, such as paper, cloth, and wood, which contain a discernible amount of moisture must be drained or wrung out prior to packaging to prevent accumulation of free liquid. These wastes are classified as IDC 822. This stream is generated from Facility Operation, Analytical Laboratories, R&D Laboratories, and Spill Cleanups. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt. %, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	A- Process knowledge based upon general knowledge of waste type or source (e.g., there is some probability of a waste constituent being absent or present). Bounding analytical data have not been compiled in a form that is compatible with this report. This effort has been completed and the results are available in the Final Backlog Baseline Book dated September 26, 1994.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	GENERAAREA: Numerous locations throughout RFP.GENOPERATI: RECLASS_CO: Rocky Flats assays wastes to determine waste type instead of relying on process knowledge or historical data. For this reason, the potential for reclassification has not been analyzed.CATION: Not applicable OTHER_CHAR: No information available. RFP has assumed this waste to be LDR based on process knowledge characterization, and one sample analyzed for volatiles in 1988. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its genration date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. Analytical data are limited. WASTE_PACK: This waste is stored in 55 gallon carbon steel drums with one rigid polyethylene liner and several bag liners and standard metal boxes.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W012	Handling:	CH	NMVP #:	RF-831	Stream Name:	Combustibles/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5390

AS-GENERATED EPA CODES

F002, F001, F009, F007, F006, F005, F003, D035, D019, D011, D010, D009, D008, D007, D006, D005, D004

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.1	0.0	0.4
Vitrified:	0.0	0.0	0.0
Cellulosics:	69.2	4.8	258.5
Rubber:	6.6	0.5	24.7
Plastics:	20.1	1.1	75.2
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	112.6		
Packaging Material Plastic:	44.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

RF 116

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	5.17E+00
Pu-240	2.17E-01
Pu-239	9.49E-01
Am-241	7.34E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	44.9	13.7	9.6	84.3	78.4	230.9
Drum / 85-gallon	0.6	0.0	0.0	0.0	0.0	0.6
metal box / 4x4x7	12.8	0.0	0.0	0.0	0.0	12.8
Totals	58.3	13.7	9.6	84.3	78.4	244.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	44.9	13.7	9.6	83.5	78.4	230.1
Standard Waste Box	0.0	9.8	1.6	13.7	12.7	37.8
Totals	44.9	23.4	11.2	97.2	91.2	267.9

As-Generated Form:	Stored:	58.3	Projected:	186.0	Total:	244.3

Final Waste Form:	Stored:	44.9	Projected:	223.8	Total:	268.7

WASTE STREAM DESCRIPTION	This waste consits of rags, paper, cloth, coveralls, plastic, rubber, and wood. The waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills. The bulk of these wastes are packaged in 55-gallon drums with one rigid polyethylene liner and several bag liners. In addition, the waste may be packaged in DOT 7A Type A metal boxes which are lined with a fiberboard liner and a PVC liner or standard TRUPACT-II container. The containers are then assayed and transferred to interim status storage areas. These wastes have been shipped to the INEL for stroage in the past. RF-330, 356, 337, 821, 822, 853, 831, 832, 833. Predominantly combustible debris.
WASTE STREAM SOURCE	tem Description 831, Combustibles, Dry, TRU Mixed Waste Dry combustibles such as paper, cloth, wood, etc. This waste has been identified as being low level mixed waste. This stream is generated from Facility Operation, Analytical Laboratories, R&D Laboratories, and Spill Cleanups. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt. %, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	A- Process knowledge based upon general knowledge of waste type or source (e.g., there is some probability of a waste constituent being absent or present). Bounding analytical data have not been compiled in a form that is compatible with this report. This effort has been completed and the results are available in the Final Backlog Baseline Book dated September 26, 1994.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	GENERAAREA: Numerous locations throughout RFP.GENOPERATI: RECLASS_CO: Rocky Flats assays wastes to determine waste type instead of relying on process knowledge or historical data. For this reason, the potential for reclassification has not been analyzed.CATION: Not applicable OTHER_CHAR: No information available. RFP has assumed this waste to be LDR based on process knowledge characterization, and one sample analyzed for volatiles in 1988. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its genration date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. Analytical data are limited. WASTE_PACK: This waste is stored in 55 gallon carbon steel drums with one rigid polyethylene liner and several bag liners and standard metal boxes.
FINAL FORM COMMENTS	The projections given in Section 8.2.15.1.13 are in m^3. Assume 86% of IDC 831 generation will be Drum/55-gal based on current container distribution.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W012	Handling:	CH	NMVP #:	RF 116	Stream Name:	Combustibles/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5390

AS-GENERATED EPA CODES

D006, D019, D022, D028, D029, F006, D040, D043, F007, F009, D011, D010, F039, F002, D038, F003, F001, D002, D035, D018, F005, D003, D004, D005, D007, D008, D009

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.1	0.0	0.5
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	65.0	1.4	347.6
Rubber:	6.2	0.1	33.2
Plastics:	18.9	0.4	101.1
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

RF 116

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	5.17E+00
Pu-240	2.17E-01
Pu-239	9.49E-01
Am-241	7.34E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	72.4	26.0	18.3	160.8	149.3	426.8
Totals	72.4	26.0	18.3	160.8	149.3	426.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	72.4	29.1	18.3	160.8	149.3	429.9
Totals	72.4	29.1	18.3	160.8	149.3	429.9

As-Generated Form: Stored: 72.4 Projected: 354.4 Total: 426.8

Final Waste Form: Stored: 72.4 Projected: 357.6 Total: 429.9

WASTE STREAM DESCRIPTION	This waste consits of rags, paper, cloth, coveralls, plastic, rubber, and wood. The waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills. The bulk of these wastes are packaged in 55-gallon drums with one rigid polyethylene liner and several bag liners. In addition, the waste may be packaged in DOT 7A Type A metal boxes which are lined with a fiberboard liner and a PVC liner or standard TRUPACT-II container. The containers are then assayed and transferred to interim status storage areas. These wastes have been shipped to the INEL for stroage in the past. RF-330, 356, 337, 821, 822, 853, 831, 832, 833. Predominantly combustible debris.
WASTE STREAM SOURCE	This stream is generated from Facility Operation, Analytical Laboratories, R&D Laboratories, and Spill Cleanups. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt. %, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	A- Process knowledge based upon general knowledge of waste type or source (e.g., there is some probability of a waste constituent being absent or present). Bounding analytical data have not been compiled in a form that is compatible with this report. This effort has been completed and the results are available in the Final Backlog Baseline Book dated September 26, 1994.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	GENERAAREA: Numerous locations throughout RFP.GENOPERATI: RECLASS_CO: Rocky Flats assays wastes to determine waste type instead of relying on process knowledge or historical data. For this reason, the potential for reclassification has not been analyzed.CATION: Not applicable OTHER_CHAR: No information available. RFP has assumed this waste to be LDR based on process knowledge characterization, and one sample analyzed for volatiles in 1988. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its genration date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. Analytical data are limited. WASTE_PACK: This waste is stored in 55 gallon carbon steel drums with one rigid polyethylene liner and several bag liners and standard metal boxes.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W012	Handling:	CH	NMVP #:	RF 116	Stream Name:	Combustibles/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5390

AS-GENERATED EPA CODES

F002, F001, D011, F009, F007, F006, F005, F003, D019, D010, D009, D008, D007, D006, D005, D004

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	32.8	4.2	69.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.2	0.0	0.3
Rubber:	2.2	0.3	4.7
Plastics:	53.5	6.9	112.8
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	138.0		
Packaging Material Plastic:	36.4		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

RF 116

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	5.17E+00
Pu-240	2.17E-01
Pu-239	9.49E-01
Am-241	7.34E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	8.7	2.1	1.5	13.0	12.3	37.6
metal box / 4x4x7	3.2	0.0	0.0	0.0	0.0	3.2
Totals	11.9	2.1	1.5	13.0	12.3	40.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	8.7	3.1	1.5	13.0	12.3	38.7
Standard Waste Box	0.0	6.2	0.6	3.6	6.6	17.0
Totals	8.7	9.4	2.1	16.6	18.9	55.7

As-Generated Form: Stored: 11.9 Projected: 28.9 Total: 40.8

Final Waste Form: Stored: 8.7 Projected: 47.0 Total: 55.7

WASTE STREAM DESCRIPTION	This waste consits of rags, paper, cloth, coveralls, plastic, rubber, and wood. The waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills. The bulk of these wastes are packaged in 55-gallon drums with one rigid polyethylene liner and several bag liners. In addition, the waste may be packaged in DOT 7A Type A metal boxes which are lined with a fiberboard liner and a PVC liner or standard TRUPACT-II container. The containers are then assayed and transferred to interim status storage areas. These wastes have been shipped to the INEL for stroage in the past. RF-330, 356, 337, 821, 822, 853, 831, 832, 833. Predominantly combustible debris.
WASTE STREAM SOURCE	Item Description 853, Plastic (Teflon, PVC, and Polyethylene) This waste has been identified as being a low level mixed waste, consisting of PVC sheeting, poly bottles, supplied-air suits, and other plastics. This stream is generated from Facility Operation, Analytical Laboratories, R&D Laboratories, and Spill Cleanups. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt. %, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	A- Process knowledge based upon general knowledge of waste type or source (e.g., there is some probability of a waste constituent being absent or present). Bounding analytical data have not been compiled in a form that is compatible with this report. This effort has been completed and the results are available in the Final Backlog Baseline Book dated September 26, 1994.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	GENERAAREA: Numerous locations throughout RFP.GENOPERATI: RECLASS_CO: Rocky Flats assays wastes to determine waste type instead of relying on process knowledge or historical data. For this reason, the potential for reclassification has not been analyzed.CATION: Not applicable OTHER_CHAR: No information available. RFP has assumed this waste to be LDR based on process knowledge characterization, and one sample analyzed for volatiles in 1988. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its genration date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. Analytical data are limited. WASTE_PACK: This waste is stored in 55 gallon carbon steel drums with one rigid polyethylene liner and several bag liners and standard metal boxes.
FINAL FORM COMMENTS	Assume 70% of IDC 833 generation will be drum/55-gal based on current container distribution.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W012	Handling: CH	NMVP #: RF 116	Stream Name: Combustibles/TRM		Inventory Date: 10/20/94
Local ID: None	Type: MTRU	Generator Site: RF	Final Waste Form: Combustible		Waste Matrix Code: S5390

AS-GENERATED EPA CODES

F002, F001, D019

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

RF 116

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	5.17E+00
Pu-240	2.17E-01
Pu-239	9.49E-01
Am-241	7.34E-01

WASTE VOLUME DETAIL (cu. meters)

	As-Generated Waste Form Volumes						Final Waste Form Volumes						
Container	Stored	Pre-97	98-02	03-12	13-22	Totals	Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2							
Totals	0.2	0.0	0.0	0.0	0.0	0.2							

As-Generated Form:	Stored:	0.2	Projected:	0.0	Total:	0.2	Final Waste Form:	Stored:	0.0	Projected:	0.0	Total:	0.0

WASTE STREAM DESCRIPTION	This waste consits of rags, paper, cloth, coveralls, plastic, rubber, and wood. The waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills. The bulk of these wastes are packaged in 55-gallon drums with one rigid polyethylene liner and several bag liners. In addition, the waste may be packaged in DOT 7A Type A metal boxes which are lined with a fiberboard liner and a PVC liner or standard TRUPACT-II container. The containers are then assayed and transferred to interim status storage areas. These wastes have been shipped to the INEL for stroage in the past. RF-330, 356, 337, 821, 822, 853, 831, 832, 833. Predominantly combustible debris.
WASTE STREAM SOURCE	Item Description 853, Plastic (Teflon, PVC, and Polyethylene) This waste has been identified as being a low level mixed waste, consisting of PVC sheeting, poly bottles, supplied-air suits, and other plastics. This stream is generated from Facility Operation, Analytical Laboratories, R&D Laboratories, and Spill Cleanups. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt. %, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	A- Process knowledge based upon general knowledge of waste type or source (e.g., there is some probability of a waste constituent being absent or present). Bounding analytical data have not been compiled in a form that is compatible with this report. This effort has been completed and the results are available in the Final Backlog Baseline Book dated September 26, 1994.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	GENERAAREA: Numerous locations throughout RFP.GENOPERATI: RECLASS_CO: Rocky Flats assays wastes to determine waste type instead of relying on process knowledge or historical data. For this reason, the potential for reclassification has not been analyzed.CATION: Not applicable OTHER_CHAR: No information available. RFP has assumed this waste to be LDR based on process knowledge characterization, and one sample analyzed for volatiles in 1988. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its genration date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. Analytical data are limited. WASTE_PACK: This waste is stored in 55 gallon carbon steel drums with one rigid polyethylene liner and several bag liners and standard metal boxes.
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W032	Handling:	CH	NMVP #:	N/A	Stream Name:	Ground glass/TRM	Inventory Date:	10/20/94
Local ID:	IDC 444, 855	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5122

AS-GENERATED EPA CODES

D009

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	77.6	77.6	77.6
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.33E+00
Pu-240	5.61E-02
Pu-239	2.45E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.2	0.3	0.6	0.6	1.9
Totals	0.2	0.2	0.3	0.6	0.6	1.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.2	0.3	0.6	0.6	1.9
Totals	0.2	0.2	0.3	0.6	0.6	1.9

As-Generated Form: Stored: 0.2 Projected: 1.7 Total: 1.9

Final Waste Form: Stored: 0.2 Projected: 1.7 Total: 1.9

WASTE STREAM DESCRIPTION	Matrix consits of crushed glass light bulbs and leaded glass that is crushed on removal.
WASTE STREAM SOURCE	Item Description Code 855-Ground Glass 855 IDC includes ground glass from fluorescent light bulbs. It can be used for waste generated outside the PA and for nonline-generated waste. In other words, it can *only be used for low-level mixed waste.* This stream is generated from Facility Operations, Analytical Laboratories, and R&D Laboratories. RE: Section 8.2.11, REFETS doesn't expect nitrates, sulfates, phosphates > 1 wt%, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Analytical data showed the presence of toxic metals in some containers of IDC 444. Based on these analytical data, these materials are characterized as hazardous and assigned EPA codes D005 and D008. Analytical data for IDC 855 show that there are enough cases where the samples fail the Toxicity Characteristic Leaching Procedure (TCLP), that the waste bulbs should be managed as hazardous waste and assigned the EPA code D009. EPA codes are assigned to newly generated waste by the generator based on process knowledge. Subpopulation 17G includes containers of leaded glovebox glass. Based on analytical data, these materials are characterized as hazardous and assigned EPA Waste Codes.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	LDR_DETERM: Net and gross weight data are not available for all container types. RFP has assumed this waste to be LDR based on the fact that it is a RCRA listed waste. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: The glass waste is packaged in 55- gallon drums that are lined with one fiberboard liner and two polyethylene bags or metal boxes. Drums are placed in TRUPACT II containers.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W052	Handling:	CH	NMVP #:	RF 118	Stream Name:	Glass/TRM	Inventory Date:	10/20/94
Local ID:	None	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5122

AS-GENERATED EPA CODES

F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	10.3	10.3	10.3
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	176.8	176.8	176.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	5.4	5.4	5.4
Rubber:	0.0	0.0	0.0
Plastics:	6.2	6.2	6.2
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

RF118

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	6.75E+00
Pu-240	2.83E-01
Pu-239	1.28E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.7	0.9	1.9	1.9	5.5
Totals	0.2	0.7	0.9	1.9	1.9	5.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.7	0.9	1.9	1.9	5.5
Totals	0.2	0.7	0.9	1.9	1.9	5.5

As-Generated Form: Stored: 0.2 Projected: 5.4 Total: 5.6

Final Waste Form: Stored: 0.2 Projected: 5.4 Total: 5.6

WASTE STREAM DESCRIPTION	This waste stream is made up of glass from analytical labs, recovery processes, ceramics, and glovebox windows.
WASTE STREAM SOURCE	IDC 856 includes Raschig Rings which are removed from vessels containing RCRA regulated solvents. There is also glass from spent fluorescent lamps in some of these containers. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1wt%, but has no supporting data. This stream is generated from Facility Operations, Analytical Laboratories, and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Item Description Code 440 This IDC was separated from IDC 444 (created in 1989 specifically for ground glass and leaded glass) because the two waste forms exhibit different chemical characteristics, hazardous constituents, and EPA codes. Therefore, drums of IDC 440 materials generated prior to 1989 could contain leaded glass. These are included in Subpopulation 17G and are assigned EPA codes D005 and D008. Item Description Code 442 In addition to the reference documents and WEMs information used, analytical data compiled by EG&G Rocky Flats were reviewed. The data shows that the concentrations of Toxicity Characteristic (TC) metals barium, cadmium, chromium, lead, and silver were well below regulated levels provided in 6 CCR 1007-3, Section 261.24. Subpopulation 17F includes Raschig Rings assigned IDC 442 that are contaminated with carbon tetrachloride, 1,1,1-trichloroethane, or both. Based on analytical data, Raschig Rings do not exhibit the characteristic of toxicity for metals. All containers in this group were generated in Building 777 according to WEMS. Rings generated in Building 777 were generated by the Carbon Tetrachloride System in Tanks 1103, 1104, and 1106, Room 131, and by the Trichloroethane Collection and Filter System in Tanks T-1 and T-2, Room 430. Therefore, it is assumed that these rings are all contaminated with carbon tetrachloride or 1,1,1-trichloroethane sludge. They are, therefore, assigned EPA Waste Codes F001 and F002. Subpopulation 27B is assigned EPA code D009 because of mercury in the spent fluorescent lamps.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	RFP has determined that this grouping is LDR waste based on available process knowledge with some of the IDCs identified containing listed hazardous components. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of is generation date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. WASTE_PACK: DOT 7A TYPE A metal boxes and DOT 7A TYPE A drums.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W096	Handling:	CH	NMVP #:	RF-116	Stream Name:	Supercompacted Combustibles/TRM	Inventory Date:	10/20/94
Local ID:	2116	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S3290

AS-GENERATED EPA CODES

F001, D008, F002, F005, D007

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	375.7	251.3	483.0
Rubber:	35.9	24.0	46.1
Plastics:	108.1	72.3	139.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	301.0		
Packaging Material Plastic:	64.8		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

RF-116C

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.44E+01
Pu-240	1.02E+00
Pu-239	4.08E+00
Am-241	3.46E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

As-Generated Form: Stored: 2.1 Projected: 0.0 Total: 2.1

Final Waste Form: Stored: 2.1 Projected: 0.0 Total: 2.1

WASTE STREAM DESCRIPTION	This waste consists of cloth and paper products from cleanup of gloveboxes and spills, which has been supercompacted for volume reduction.
WASTE STREAM SOURCE	Item Description Code 2116 - IDC 2116 is Supercompacted TRU-mixed combustible waste (IDCs 831, 832, and 833). Refer to Waste Form RF-W012 for details of these IDCs. Containers of IDC 2116 were generated in Building 776. The WSRIC stream number is 776-13-40 (a/o 3/2/95). Soft wastes are inspected for rejectable items, including free liquids and metal, which are separated from the soft waste for further disposition. Soft wastes are moved to the precompactor where they are placed in an empty 35-gallon drum located in the precompactor. The soft waste is precompacted using a 30-ton precompactor. Once the drum is filled with precompacted waste, the lid is placed on the drum. The drum is transferred to the appropriate glovebox line for piercing. Prior to supercompaction, drums of soft waste are pierced with four holes to allow air to escape and to reduce the amount of "springback" during supercompaction. After piercing, the drums are moved to the supercompactor. A mold is lowered over the drum. Once the mold is in place, the supercompactor is lowered, compacting the drum. Liquid forced out of the waste during compaction is collected by the liquid waste collection system. After supercompaction, the pucks (supercompacted 35-gallon drums) are moved to staging. An operator selects from the available pucks to efficiently fill 55-gallon loadout drums.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	This waste is characterized with the same EPA hazardous waste numbers as the waste being processed. Refer to RF-W012, Combustibles/TRM, for IDCs 831, 832, and 833.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W094	Handling:	CH	NMVP #:	N/A	Stream Name:	Wastewater/TRM
Local ID:	N/A	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Organics

Inventory Date: 10/20/94

Waste Matrix Code: L1130

AS-GENERATED EPA CODES

D002, D007, D011

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Tanks/Misc Size	0.0	0.0	0.0	0.0	0.0	0.0
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.0 Projected: 0.0 Total: 0.0

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste stream consists of aqueous waste water from different Buildings on the plant site. Most of the water comes from Building 771 and from rain water. This waste stream is treated and sent to Building 374 for final treatment.
WASTE STREAM SOURCE	This waste stream consists of aqueous waste water from different Buildings on the plant site. Most of the water comes from Building 771 and from rain water. This waste stream is treated and sent to Building 374 for final treatment.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Process knowledge based upon general knowledge of waste type or source.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W089	Handling:	CH	NMVP #:	N/A	Stream Name:	WET SLURRY/TRM	Inventory Date:	12/30/99
Local ID:	N/A	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	L1290

AS-GENERATED EPA CODES

D011, D007, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

Container	As-Generated Waste Form Volumes: Stored	Pre-97	98-02	03-12	13-22	Totals	Final Waste Form Volumes: Container	Stored	Pre-97	98-02	03-12	13-22	Totals
As-Generated Form:	Stored: 0.0	Projected: 0.0	Total: 0.0				Final Waste Form:	Stored: 0.0	Projected: 0.0	Total: 0.0			

WASTE STREAM DESCRIPTION	This waste stream consists of solids that are removed from aqueous process waste streams. The aqueous waste streams come into Building 774 from other Buildings on plant site. The aqueous waste is then put through a three stage precipitation, flocculation, and clarification procedure. The solids removed are stored in Tank 40 in Building 774.
WASTE STREAM SOURCE	RE: section *.2.222, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data. RFETS does not expect nitrate concentration to be >1%, but has no data indicating the actual concentration range.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Process knowledge based upon general knowledge and waste generators in the building.
MANAGEMENT COMMENTS	Projected generation is beyond CY1999.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W091	Handling:	CH	NMVP #:	N/A	Stream Name:	Organics Discard Level/TRM
Local ID:	0533, 0535, N/A	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Solidified Organics

Inventory Date: 10/20/94

Waste Matrix Code:

AS-GENERATED EPA CODES

F002, F001, D019

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Tank/Misc Sizes	0.0	0.0	0.0	0.0	0.0	0.0
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.0 Projected: 0.0 Total: 0.0

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This liquid waste stream includes machine oils and coolants contaminated with organic solvents.
WASTE STREAM SOURCE	Waste oil being transferred from Buildings 707, 776, and 777 is stored in Tanks T-13 and T-14. From Tanks T-13 and T-14, the waste oil is pumped to the OASIS mixer. The pump is enclosed in a small glovebox. Waste oil, water, emulsifier, Envirostone, and accelerator (to speed up the setting process) are mixed in a 55-gallon drum attached to the bottom of the glovebox. The waste is then sampled for plutonium, americium, and uranium. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Process knowledge based on waste generation and general knowledge of waste type or source.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W108	Handling:	CH	NMVP #:	RF 111	Stream Name:	Aqueous Sludge/TRU	Inventory Date:	
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	395.6	44.2	767.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	260.3	28.8	498.5
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	140.2	15.5	268.5
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues:

Asbestos: No

PCBs: No

Source:

TRUCON CODE

RF 111

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.81E+00
Pu-240	1.18E-01
Pu-239	5.16E-01
Am-241	2.03E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 0.6 Projected: 0.0 Total: 0.6

WASTE STREAM DESCRIPTION	This waste stream consists of aqueous sludge from wastewater treatment mixed with 30% Portland cement. IDC No. 800, 803, 807. The waste is generated as a result of process waste water treatment in Building 374 and 774. Aqueous sludge is produced by vacuum filtration of precipitated solids from pretreated aqueous waste slurry. Entrapped solids are skimmed off the surface of the filter medium of the rotating drum as wet sludge. The recipitated solids are chiefly hydroxides with pH of 10-12. The final waste form is obtained by mixing the wet sludge with approximately 30% Portland cement. RFP has several drums of aqueous sludge that were returned by INEL. These old drums were packaged by alternating the layers of cement and wet sludge or by adding cement to the top and bottom of a drum containing wet sludge. This older waste is described by IDC's 001, 002, and 007.
WASTE STREAM SOURCE	N/A
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W123	Handling:	CH	NMVP #:	N/A	Stream Name:	Oxides/Tru
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics

Inventory Date: 3/6/95

Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes						
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes						
Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form:	Stored:	0.2	Projected:	0.0	Total:	0.2
Final Waste Form:	Stored:	0.0	Projected:	0.0	Total:	0.0

WASTE STREAM DESCRIPTION	This waste was generated from plutonium recovery operations in Building 771. The waste consists of low-purity oxide heel, incineration sludge, miscellaneous sludge, sludge from size reduction area , grit , soot , and soot heel.
WASTE STREAM SOURCE	IDC 044 was produced in the Americium Purification Process in Glovebox 1 in Building 771. This process has been out of operation for many years. The americium oxide was produced in a similar method to plutonium oxide. The americium oxide was collected in stainless-steel vials that were placed in lead pigs for radiation shielding. The lead pigs are enclosed in storage cans that are stored in vaults.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W123	Handling:	CH	NMVP #:	N/A	Stream Name:	Oxides/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics

Inventory Date: 3/6/95

Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.5	0.0	0.0	0.0	0.0	0.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form:	Stored:	0.5	Projected:	0.0	Total:	0.5
Final Waste Form:	Stored:	0.0	Projected:	0.0	Total:	0.0

WASTE STREAM DESCRIPTION	This waste was generated from plutonium recovery operations in Building 771. The waste consists of low-purity oxide heel, incineration sludge, miscellaneous sludge, sludge from size reduction area , grit , soot , and soot heel.
WASTE STREAM SOURCE	IDC 067 consists of chlorinated plutonium oxide generated during research in Building 779, for possible use in a variety of processes.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W123	Handling: CH	NMVP #: N/A	Stream Name: Oxides/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Solidified Inorganics		Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.1	0.0	0.0	0.0	0.0	0.1
Totals	0.1	0.0	0.0	0.0	0.0	0.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form:	Stored: 0.1	Projected: 0.0	Total: 0.1	Final Waste Form:	Stored: 0.0	Projected: 0.0	Total: 0.0

WASTE STREAM DESCRIPTION	This waste was generated from plutonium recovery operations in Building 771. The waste consists of low-purity oxide heel, incineration sludge, miscellaneous sludge, sludge from size reduction area , grit , soot , and soot heel.
WASTE STREAM SOURCE	IDC 080 consists of plutonium oxide generated by the Calcination Process in Building 771. The Feed Evaporation Process concentrated the plutonium nitrate solution from High-Level Dissolution and Anion Exchange. The resulting precipitate was calcined to form plutonium oxide. This product was then transferred to Hydrofluorination for further processing.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W123	Handling: CH	NMVP #: N/A	Stream Name: Oxides/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Solidified Inorganics		Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.1	0.0	0.0	0.0	0.0	0.1
Totals	0.1	0.0	0.0	0.0	0.0	0.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form:	Stored: 0.1	Projected: 0.0	Total: 0.1	Final Waste Form:	Stored: 0.0	Projected: 0.0	Total: 0.0

WASTE STREAM DESCRIPTION	This waste was generated from plutonium recovery operations in Building 771. The waste consists of low-purity oxide heel, incineration sludge, miscellaneous sludge, sludge from size reduction area , grit , soot , and soot heel.
WASTE STREAM SOURCE	IDC 081 consists primarily of the impure plutonium oxide collected from the glovebox floor of the Calcination Process in Building 771. In addition, oxide encrusted on the calciner equipment was removed during maintenance operations and assigned IDC 081.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W123	Handling: CH	NMVP #: N/A	Stream Name: Oxides/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Solidified Inorganics		Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.00 Projected: 0.0 Total: 0.00

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste was generated from plutonium recovery operations in Building 771. The waste consists of low-purity oxide heel, incineration sludge, miscellaneous sludge, sludge from size reduction area , grit , soot , and soot heel.
WASTE STREAM SOURCE	IDC 082 consists of plutonium oxide stored in small stacker cans.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W123	Handling:	CH	NMVP #:	N/A	Stream Name:	Oxides/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics

Inventory Date: 3/6/95

Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.03	0.0	0.0	0.0	0.0	0.03
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.03 Projected: 0.0 Total: 0.03

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste was generated from plutonium recovery operations in Building 771. The waste consists of low-purity oxide heel, incineration sludge, miscellaneous sludge, sludge from size reduction area , grit , soot , and soot heel.
WASTE STREAM SOURCE	IDC 083 consists of plutonium oxide feed for the Direct Oxide Reduction Process in Building 776 Pyrochemical Processing. This product consists of oxide from a variety of sources used by the process to produce metal for production purposes.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W123	Handling:	CH	NMVP #:	N/A	Stream Name:	Oxides/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics

Inventory Date: 3/6/95

Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: *Stored:* 0.00 *Projected:* 0.0 *Total:* 0.00

Final Waste Form: *Stored:* 0.0 *Projected:* 0.0 *Total:* 0.0

WASTE STREAM DESCRIPTION	This waste was generated from plutonium recovery operations in Building 771. The waste consists of low-purity oxide heel, incineration sludge, miscellaneous sludge, sludge from size reduction area , grit , soot , and soot heel.
WASTE STREAM SOURCE	IDC 084 consists of plutonium oxide generated at the Hanford facility and shipped to Rocky Flats for processing. The oxide was assayed then blended in preparation for Direct Oxide Reduction in Building 776 or Hydrofluorination prior to Reduction and Button Break-out in Building 771.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W123	Handling:	CH	NMVP #:	N/A	Stream Name:	Oxides/TRU	Inventory Date:	3/6/95
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.04	0.0	0.0	0.0	0.0	0.04
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form:	Stored:	0.04	Projected:	0.0	Total:	0.04

Final Waste Form:	Stored:	0.0	Projected:	0.0	Total:	0.0

WASTE STREAM DESCRIPTION	This waste was generated from plutonium recovery operations in Building 771. The waste consists of low-purity oxide heel, incineration sludge, miscellaneous sludge, sludge from size reduction area , grit , soot , and soot heel.
WASTE STREAM SOURCE	IDC 086 consists of plutonium oxide generated by the Electrorefining tilt/pour furnaces in Building 371. During cleaning of the furnaces, molten plutonium metal was scraped from the walls. The metal was burned to oxide then assayed before being sent to Dissolution in Building 771. The oxide could contain tungsten or tantalum from furnace components.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W123 | Handling: CH | NMVP #: N/A | Stream Name: Oxides/TRU | Inventory Date: 3/6/95
Local ID: None | Type: TRU | Generator Site: RF | Final Waste Form: Solidified Inorganics | Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	*0.0*	*0.0*	*0.0*
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.04	0.0	0.0	0.0	0.0	0.04
Totals	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated Form: Stored: 0.04 Projected: 0.0 Total: 0.04

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste was generated from plutonium recovery operations in Building 771. The waste consists of low-purity oxide heel, incineration sludge, miscellaneous sludge, sludge from size reduction area , grit , soot , and soot heel.
WASTE STREAM SOURCE	IDC 067 consists primarily of the impure plutonium oxide collected from the glovebox floor of the Calcination Process in Building 771 (see discussion of IDC 081) that is stored in small stacker cans.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W123	Handling:	CH	NMVP #:	N/A	Stream Name:	Oxides/Tru	Inventory Date:	3/6/95
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form:	Stored:	0.00	Projected:	0.0	Total:	0.00

Final Waste Form:	Stored:	0.0	Projected:	0.0	Total:	0.0

WASTE STREAM DESCRIPTION	This waste was generated from plutonium recovery operations in Building 771. The waste consists of low-purity oxide heel, incineration sludge, miscellaneous sludge, sludge from size reduction area , grit , soot , and soot heel.
WASTE STREAM SOURCE	IDC 089 is produced in the calcination process in Glovebox 16 in Building 771. Grease oxide is a mixture of plutonium greencake from the calciner equipment. The grease is applied to the wear plates on the calciner. Grease and greencake can mix together near the breech of the calciner where the product greencake is removed. Grease oxide is placed in metal cans for storage prior to calcination and eventual dissolution for recovery. RE: Section 6.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt%, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W123	Handling: CH	NMVP #: N/A	Stream Name: Oxides/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Solidified Inorganics		Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.01	0.0	0.0	0.0	0.0	0.01
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.01 Projected: 0.0 Total: 0.01

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste was generated from plutonium recovery operations in Building 771. The waste consists of low-purity oxide heel, incineration sludge, miscellaneous sludge, sludge from size reduction area , grit , soot , and soot heel.
WASTE STREAM SOURCE	IDC 145 consists of plutonium oxide generated during loss-on-ignition testing in Building 371. The LOI test was developed to minimize the possibility of container pressurization during shipment. The oxide was heated for a designated period, then weighed to determine the percent of weight loss. If more than 1 percent was lost, it was determined that there was enough moisture or impurities present to represent a risk of the container pressurizing during shipment. If the oxide failed, the material was typically tested a second time.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W123	Handling: CH	NMVP #: N/A	Stream Name: Oxides/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Solidified Inorganics		Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.01	0.0	0.0	0.0	0.0	0.01
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.01 Projected: 0.0 Total: 0.01

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste was generated from plutonium recovery operations in Building 771. The waste consists of low-purity oxide heel, incineration sludge, miscellaneous sludge, sludge from size reduction area , grit , soot , and soot heel.
WASTE STREAM SOURCE	IDC 146 consists of plutonium oxide failing loss-on-ignition testing in Building 371 multiple times. Typically, oxide failing the LOI test twice was sent to Building 771 and reburned for dissolution.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W123	Handling:	CH	NMVP #:	N/A	Stream Name:	Oxides/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics

Inventory Date: 3/6/95

Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.2	0.0	0.0	0.0	0.0	0.2
Drum / 55-gallon	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.3	0.0	0.0	0.0	0.0	2.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form:	Stored:	2.3	Projected:	0.0	Total:	2.3
Final Waste Form:	Stored:	0.0	Projected:	0.0	Total:	0.0

WASTE STREAM DESCRIPTION	This waste was generated from plutonium recovery operations in Building 771. The waste consists of low-purity oxide heel, incineration sludge, miscellaneous sludge, sludge from size reduction area , grit , soot , and soot heel.
WASTE STREAM SOURCE	IDC 289 consists of low-concentration plutonium oxide heel generated in the Dissolution Process in Building 771. This oxide consists of the undissolved material after the plutonium nitrate dissolution solution was run through an R-6 filter. The resulting heel was dried on a hot plate then staged to be recycled back into the dissolution process. This oxide consists of the heel that had been cycled through the process multiple times.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W104	Handling: CH	NMVP #: N/A	Stream Name: Particulate Sludge/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Solidified Inorganics		Waste Matrix Code: S3129

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste was generated from plutonium recovery operations in Building 771. The waste consists of IDCs 292 and 299. This waste is packaged in 55-gallon drums with multiple bag liners. Final waste form for this waste is Solidified Process Solids/TRU (IDC 806).
WASTE STREAM SOURCE	IDC 292 was intended for incinerator sludge from the recovery incinerator in Building 771. IDC 292 materials were reassessed under Waste Form 1, Incinerator Ash. However, there is one box WEMS incorrectly assigned this IDC. According to the waste-box log sheet dated October 14, 1987, the box contains Electrochemical Milling Sludge generated in Building 881. This operation generated sludge from the milling of various metals including stainless steel. It was indicated that no cyanides were used in the ECM operations in Building 881. The IDC for this box should be changed to 299. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphateds >1 wt%, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W104	Handling: CH	NMVP #: N/A	Stream Name: Particulate Sludge/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Solidified Inorganics		Waste Matrix Code: S3129

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.01	0.0	0.0	0.0	0.0	0.01
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form:	Stored: 0.2	Projected: 0.0	Total: 0.2	Final Waste Form:	Stored: 0.0	Projected: 0.0	Total: 0.0

WASTE STREAM DESCRIPTION	This waste was generated from plutonium recovery operations in Building 771. The waste consists of IDCs 292 and 299. This waste is packaged in 55-gallon drums with multiple bag liners. Final waste form for this waste is Solidified Process Solids/TRU (IDC 808).
WASTE STREAM SOURCE	This IDC has been used for sludges that were not accurately categorized as IDC 290 or 340 and could have been generated in any plutonium processing building. However, the backlog miscellaneous sludge was generated in Building 771 during the processing of residues, in Building 371 in the analytical laboratory, and in Building 883 by the Rolling Process. Process pipe sludge, sludge dissolution heel, and filter plenum sludge from Building 771 were processed through nitric acid dissolution and sparging. Soil and sludge samples from around the site were analyzed in Building 371, and the waste was stored for processing. IDC 299 materials generated in Building 883 include quench sludge and uranium oxide sludge from the rolling Process. This group also includes one container of electrochemical milling sludge generated in Building 881 in October 1987. The container is assigned IDC 292. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W117	Handling: CH	NMVP #: N/A	Stream Name: Coarse Graphite/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Graphite		Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

	As-Generated Waste Form Volumes						Final Waste Form Volumes						
Container	Stored	Pre-97	98-02	03-12	13-22	Totals	Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.03	0.0	0.0	0.0	0.0	0.03							
Drum / 55-gallon	26.0	0.0	0.0	0.0	0.0	26.0							
Totals	26.0	0.0	0.0	0.0	0.0	26.0							

As-Generated Form:	Stored:	26.0	Projected:	0.0	Total:	26.0	Final Waste Form:	Stored:	0.0	Projected:	0.0	Total:	0.0

WASTE STREAM DESCRIPTION	This waste form includes graphite chunks and coarse graphite .
WASTE STREAM SOURCE	Item Description Code 300, Graphite Molds During the casting of plutonium in production foundry operations, the plutonium casting operations in Building 707 generated used graphite molds. The working surfaces were coated with calcium fluoride prior to using the mold. After the plutonium casting was removed from the mold, the molds were collected in a drum. Drums that contained recoverable amounts of plutonium were stored for subsequent scarfing of molds.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W117	Handling: CH	NMVP #: N/A	Stream Name: Coarse Graphite/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Graphite		Waste Matrix Code:

AS-GENERATED EPA CODES	FINAL WASTE FORM DESCRIPTORS		TRUCON CODE	FINAL FORM RADIONUCLIDES
N/A	Category:	Defense TRU Waste	Unassigned	N/A
	Residues:	Yes		
	Asbestos:	No		
	PCBs:	No		
	Source:	Facility/Equipment Operation and Maintenance Waste		

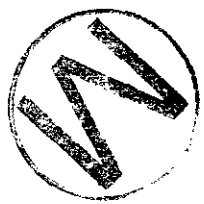
WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

WASTE VOLUME DETAIL (cu. meters)

	As-Generated Waste Form Volumes						Final Waste Form Volumes						
Container	Stored	Pre-97	98-02	03-12	13-22	Totals	Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	17.3	0.0	0.0	0.0	0.0	17.3							
Totals	17.3	0.0	0.0	0.0	0.0	17.3							

As-Generated Form:	Stored:	17.3	Projected:	0.0	Total:	17.3	Final Waste Form:	Stored:	0.0	Projected:	0.0	Total:	0.0



WASTE STREAM DESCRIPTION	This waste form includes graphite chunks and coarse graphite .
WASTE STREAM SOURCE	Item Description Code 301, Classified Graphite Shapes During the casting of plutonium in production foundry operations, classified molds are segregated from non-classified molds. Prior to 1984, the classified molds were destroyed in Building 776.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W117	Handling: CH	NMVP #: RF115	Stream Name: Coarse Graphite/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Graphite		Waste Matrix Code:

AS-GENERATED EPA CODES	TRUCON CODE	FINAL FORM RADIONUCLIDES
N/A	RF 115	N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	1.2	0.0	0.0	0.0	0.0	1.2
Totals	1.2	0.0	0.0	0.0	0.0	1.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 1.2 Projected: 0.0 Total: 1.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste form includes graphite chunks and coarse graphite .
WASTE STREAM SOURCE	Item Description Code 303, Scarfed Graphite Chunks After the casting of plutonium in production foundry operations, IDCs 300 and 301 were mechanically cleaned using a hand-held rotary-type sanding tool to grind off contamination in buildings 371, 707, 771, and 777, generating Scarfed Graphite Chunks. The mechanical cleaning (scarfing) of the mold surface removes most of the mold coating and plutonium contamination. This process generated IDC 303 and 310, as well as, IDC 312.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W117	Handling:	CH	NMVP #:	N/A	Stream Name:	Coarse Graphite/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Graphite

Inventory Date: 3/6/95

Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	*0.0*	*0.0*	*0.0*
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.1	0.0	0.0	0.0	0.0	0.1
Drum / 55-gallon	17.5	0.0	0.0	0.0	0.0	17.5
Totals	17.5	0.0	0.0	0.0	0.0	17.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 17.5 Projected: 0.0 Total: 17.5

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste form includes graphite chunks and coarse graphite .
WASTE STREAM SOURCE	Item Description Code 310, Graphite Scarfing and Fines After the casting of plutonium in production foundry operations, IDC 300 was mechanically cleaned in Buildings 371, 707, 771, and 777, generating graphite scarfings and fines. The mechanical cleaning (scarfing) of the mold surface removes most of the mold coating and plutonium contamination. Material generated in this process were fines and small pieces of graphite coated with calcium fluoride and plutonium. This material was then subjected to nondestructive assay to determine actinide content, and collected for disposition.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W117	Handling:	CH	NMVP #:	N/A	Stream Name:	Coarse Graphite/TRU	Inventory Date:	3/6/95
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Graphite	Waste Matrix Code:	

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.1	0.0	0.0	0.0	0.0	0.1
Drum / 55-gallon	24.1	0.0	0.0	0.0	0.0	24.1
Totals	24.2	0.0	0.0	0.0	0.0	24.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form:	Stored:	24.2	Projected:	0.0	Total:	24.2

Final Waste Form:	Stored:	0.0	Projected:	0.0	Total:	0.0

WASTE STREAM DESCRIPTION	This waste form includes graphite chunks and coarse graphite .
WASTE STREAM SOURCE	Item Description Code 312, Graphite Coarse After the casting of plutonium in production foundry operations, IDC 300 was mechanically cleaned in Buildings 371, 707, 771, and 777, generating coarse graphite. Material generated in this process were chunk pieces of graphite produced as a by-product of IDC 310 generation.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W111	Handling: CH	NMVP #: N/A	Stream Name: Heavy Metal (non-SS)/TRU			Inventory Date:	3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Uncategorized Metal			Waste Matrix Code:	S5119

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.01	0.0	0.0	0.0	0.0	0.01
Drum / 55-gallon	7.9	0.0	0.0	0.0	0.0	7.9
Totals	7.9	0.0	0.0	0.0	0.0	7.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form:	Stored: 7.9	Projected: 0.0	Total: 7.9	Final Waste Form:	Stored: 0.0	Projected: 0.0	Total: 0.0

WASTE STREAM DESCRIPTION	Typically, these scrap metals consist of crucibles, funnels, rods and fixturing from several processes and production operations. Tantalum, tungsten and platinum are examples of scrap metals at the RFP.
WASTE STREAM SOURCE	Heavy metals have been produced as by-products of Rocky Flats operations in Buildings 371, 707, 771, 776, 777, 779, and 865; they are identified by IDC 320. The IDC 320 heavy nonspecial source metal was generated in various locations throughout the Rocky Flats. This IDC includes nonstainless-steel metals that are heavier than iron. Examples of this waste include crucibles, funnels, rods, and process fixtures. These items are made primarily from tantalum, tungsten, and platinum, but some parts could have been manufactured or contaminated with lead if the accumulation start date was prior to 1987.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W101	Handling: CH	NMVP #: None	Stream Name: Combustibles/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Combustible		Waste Matrix Code: S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

None

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes							Final Waste Form Volumes						
Container	Stored	Pre-97	98-02	03-12	13-22	Totals	Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	17.3	0.0	0.0	0.0	0.0	17.3							
Totals	17.3	0.0	0.0	0.0	0.0	17.3							

As-Generated Form:	Stored:	17.3	Projected:	0.0	Total:	17.3	Final Waste Form:	Stored:	0.0	Projected:	0.0	Total:	0.0

WASTE STREAM DESCRIPTION	This waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills.
WASTE STREAM SOURCE	IDC 330 is Dry Combustibles. This IDC is dry combustibles such as cloth, paper, and wood. This IDC changes to 821, 831, 851, or 861 at the point of assay, depending on radiological content. Containers of IDC 330 currently in inventory were generated in all buildings handling fissile material. This stream is generated from Facility Operation, Analytical Laboratories, R&D Laboratories, and Spill Cleanups. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt. %, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W120	Handling:	CH	NMVP #:	N/A	Stream Name:	Filters & media/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Filter

Inventory Date: 3/6/95

Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

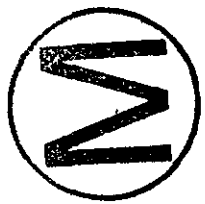
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bottle / 4-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Drum / 55-gallon	2.5	0.0	0.0	0.0	0.0	2.5
Totals	2.5	0.0	0.0	0.0	0.0	2.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 2.5 Projected: 0.0 Total: 2.5

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0



WASTE STREAM DESCRIPTION	This material consists of pieces ranging in size from 20" x 20" x 4" to 2" x 2" square pieces. These pieces are composed of glass fibers with a small percentage of asbestos. An organic binder, elastomeric adhesive, or polyurethane sealant was used during construction. The pieces also contain corrugated aluminum foil. The newer media consist of glass and aromatic polyamide fibers (Nomex) and luminum alloy metal coated with a thermoset vinyl or expoxy. Various sealants could be present. The material is not homogenous because of the different materials used and the different manufacturers of the filters.
WASTE STREAM SOURCE	These Ful-Flo filters are in-line cartridge filters used throughout Rocky Flats to remove particulates from fluid streams and typically filter down to 5, 1, and 0.5 micron-sized particulates. Ful-Flo filters are used in various liquid systems that include nitric- and chloride-acid systems, such as those found in plutonium recovery operations; caustic systems, such as those found in utilities scrubbing; solvent systems using carbon tetrachloride in machining operations; water systems, such as steam cleaning; and condensate collection. These filters are also used in lubricant oil filtration. Ful-Flo filters are poly-fiber-wound cartridges, about 10" long by 3.5" in diameter. Other fiber filters, such as R-6 pads, may be included in this IDC. R-6 pads are cloth filters, about sixteen inches in diameter, used to filter solids from nitric acid solutions. Therefore, backlog material in this IDC cannot be considered homogeneous, filter elements are produced by combining a media blanket and spirally wound matrix yarn on an inner core. The filter elements might have a polypropylene cap on one end. Both the media blanket and matrix yarn can be cotton or polypropylene. The inner core material can be constructed of polypropylene, tinned steel, or stainless steel. Warehouse data from Rocky Flats indicate that the inner-core material is polypropylene. Typically, Ful-Flo filters were placed on drying racks pending bag-out of a glovebox. Filters were not always dried before removal from the glovebox. Filters were then "bagged out" of the glovebox and placed in a second layer of plastic. Next, the filters were placed in a "Poly Bottle" or "Clam Shell" (hard plastic container), then placed in a double-lined drum. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W115	Handling:	CH	NMVP #:	N/A	Stream Name:	Fireblanket/TRU	Inventory Date:	3/6/95
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-metal	Waste Matrix Code:	S5129

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	91.7	1.9	353.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	4.8	0.0	9.6
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Cans/2-liter	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4

WASTE STREAM DESCRIPTION	This waste stream is contaminated insulation.
WASTE STREAM SOURCE	Item Description Code 334 During normal operations, fire blankets become soiled, contaminated, or are no longer needed in an area. There is one backlog drum of IDC 334. This drum was generated in Building 771 from July 1991 to December 1991.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	The volumes and the radionuclide concentrations developed in the profile were based on processing plutonium residues for actinide separation. RFETS has modified this processing plan. Residues will be processed to meet WIPP WAC, TRAMPAC, and safe storage conditions. The modified volumes and radionuclide concentrations are reflected in the WIPP level roll-ups.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W120	Handling:	CH	NMVP #:	N/A	Stream Name:	Filters & media/TRU	Inventory Date:	3/6/95
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Filter	Waste Matrix Code:	

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	8.3	0.6	56.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	9.8	0.7	66.1
Vitrified:	0.0	0.0	0.0
Cellulosics:	63.4	4.8	429.5
Rubber:	2.8	0.2	19.1
Plastics:	3.8	0.3	25.6
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	3.7	0.0	0.0	0.0	0.0	3.7
Totals	3.7	0.0	0.0	0.0	0.0	3.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.5	0.0	0.0	0.0	0.0	1.5
Totals	1.5	0.0	0.0	0.0	0.0	1.5

As-Generated Form: Stored: 3.7 Projected: 0.0 Total: 3.7

Final Waste Form: Stored: 1.5 Projected: 0.0 Total: 1.5

WASTE STREAM DESCRIPTION	This material consists of pieces ranging in size from 20" x 20" x 4" to 2" x 2" square pieces. These pieces are composed of glass fibers with a small percentage of asbestos. An organic binder, elastomeric adhesive, or polyurethane sealant was used during construction. The pieces also contain corrugated aluminum foil. The newer media consist of glass and aromatic polyamide fibers (Nomex) and luminum alloy metal coated wiht a thermoset vinyl or expoxy. Various sealants could be present. The material is not homogenous because of the different materials used and the different manufacturers of the filters. IDC 338 could also contain R-4 filters pads from the dicesium hexachloraplutonate (DCHP) process. The pads are about 12-inch diameter cloth filters.
WASTE STREAM SOURCE	The material in this IDC is High Efficiency Particulate Air (HEPA) filters used in ventilation systems at Rocky Flats. HEPA filters have been and are used in all of the buildings which contain plutonium processing activities. HEPA filters are used on gloveboxes and in large filter plenums that filter the room air. Used filters were removed from their position in the ventilation system and packaged for further processing. The filters used on gloveboxes (nominal 8" x 8" x 5") were identified as IDC 335 if they were not acid contaminated. RE: Section 8.2.11, RFETS deosn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation, Maintenance, Analytical Laboratories, R&D Laboratories, and D&D.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Projections in section 8.2.15.1.13 include generation of IDC-335 and IDC-342 to be processed to IDC-335. The volumes and the radionuclide concentrations developed in the profile were based on processing plutonium residues for actinide separation. RFETS has modified this processing plan. Residues will be processed to meet WIPP WAC, TRAMPAC, and safe storage conditions. The modified volumes and radionuclide concentrations are reflected in the WIPP level roll-ups.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W101	Handling: CH	NMVP #: None	Stream Name: Combustibles/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Combustible		Waste Matrix Code: S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

None

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

Container	As-Generated Waste Form Volumes Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Drum / 55-gallon	44.3	0.0	0.0	0.0	0.0	44.3
Totals	44.3	0.0	0.0	0.0	0.0	44.3

Container	Final Waste Form Volumes Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 44.3 Projected: 0.0 Total: 44.3

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills.
WASTE STREAM SOURCE	Wet combustibles are paper, cloth, etc., which contain a discernible amount of moisture and must be drained or wrung out prior to packaging to prevent an accumulation of free liquid. This IDC changes to 822, 832, 852, or 862 at the point of assay. This stream is generated from Facility Operation, Analytical Laboratories, R&D Laboratories, and Spill Cleanups. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt. %, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W101	Handling:	CH	NMVP #:	None	Stream Name:	Combustibles/TRU	Inventory Date:	3/6/95
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

None

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

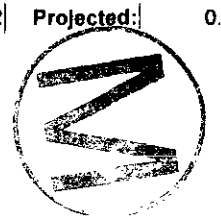
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	10.2	0.0	0.0	0.0	0.0	10.2
Totals	10.2	0.0	0.0	0.0	0.0	10.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form:	Stored:	10.2	Projected:	0.0	Total:	10.2

Final Waste Form:	Stored:	0.0	Projected:	0.0	Total:	0.0



WASTE STREAM DESCRIPTION	This waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills.
WASTE STREAM SOURCE	IDC 337 represents PVC sheeting, poly bottles, supplied-air suits polyethylene, and other plastics. IDC 337 changes to 825, 833, 853, or 863 at the point of assay. This stream is generated from Facility Operation, Analytical Laboratories, R&D Laboratories, and Spill Cleanups. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt. %, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W120	Handling: CH	NMVP #: N/A	Stream Name: Filters & media/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Filter		Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.01	0.0	0.0	0.0	0.0	0.01
Drum / 55-gallon	20.6	0.0	0.0	0.0	0.0	20.6
Totals	20.6	0.0	0.0	0.0	0.0	20.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 20.6 Projected: 0.0 Total: 20.6

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This material consists of pieces ranging in size from 20" x 20" x 4" to 2" x 2" square pieces. These pieces are composed of glass fibers with a small percentage of asbestos. An organic binder, elastomeric adhesive, or polyurethane sealant was used during construction. The pieces also contain corrugated aluminum foil. The newer media consist of glass and aromatic polyamide fibers (Nomex) and luminum alloy metal coated wiht a thermoset vinyl or expoxy. Various sealants could be present. The material is not homogenous because of the different materials used and the different manufacturers of the filters. IDC 338 could also contain R-4 filters pads from the diceslum hexachloraplutonate (DCHP) process. The pads are about 12-inch diameter cloth filters.
WASTE STREAM SOURCE	The material in this IDC is either the filter media portion of HEPA filters or surface-water filters. HEPA filters are used on gloveboxes and in large filter plenums. Sock filters were used to prefilter operable unit 2 (OU-2) surface water prior to activated carbon treatment. Used HEPA filters were processed to segregate those portions with high plutonium content and those with low content. The wood frames were separated from the media and almost always disposed of as waste by packing in drums that were assigned IDC 330. the filter media pieces were identified as IDC 338 if they were high in radioactivity and packaged and stored for future recovery of the plutonium. If the pieces of media were low in radioactivity, they were identified as IDC 376 and packaged for shipment as waste. This filter media can be free of acid contamination or can be heavily contaminated with acid residue. It can also be moist or dry. It could have originated from the production Building 707 and could be contaminated with used solvents such as trichloroethane, carbon tetrachloride, and Freon. IDC 338 was meant to be used as a residue IDC and not as a waste IDC. Because sorting between IDCs was not accurate, some of the IDC 338 backlog containers are below the economic discard limit (EDL) and are therefore not residue. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation, Maintenance, Analytical Laboratories, R&D Laboratories, and D&D.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W120	Handling: CH	NMVP #: RF 119	Stream Name: Filters & media/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Filter		Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

RF 119

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	3.7	0.0	0.0	0.0	0.0	3.7
Totals	3.7	0.0	0.0	0.0	0.0	3.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form:	Stored: 3.7	Projected: 0.0	Total: 3.7	Final Waste Form:	Stored: 0.0	Projected: 0.0	Total: 0.0

WASTE STREAM DESCRIPTION	This material consists of pieces ranging in size from 20" x 20" x 4" to 2" x 2" square pieces. These pieces are composed of glass fibers with a small percentage of asbestos. An organic binder, elastomeric adhesive, or polyurethane sealant was used during construction. The pieces also contain corrugated aluminum foil. The newer media consist of glass and aromatic polyamide fibers (Nomex) and luminum alloy metal coated with a thermoset vinyl or expoxy. Various sealants could be present. The material is not homogenous because of the different materials used and the different manufacturers of the filters. IDC 338 could also contain R-4 filters pads from the dicesium hexachloraplutonate (DCHP) process. The pads are about 12-inch diameter cloth filters.
WASTE STREAM SOURCE	HEPA filters are used on all gloveboxes to remove particulates from the atmosphere exiting the glovebox to the plenum exhaust system. The filters in IDC 342 are from gloveboxes with atmospheres that could cause the filters to be contaminated with acids or bases used in chemical processing. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation, Maintenance, Analytical Laboratories, R&D Laboratories, and D&D.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W114 | Handling: CH | NMVP #: N/A | Stream Name: Mg Oxide Crucibles/TRU | Inventory Date: 3/6/95
Local ID: None | Type: TRU | Generator Site: RF | Final Waste Form: Inorganic Non-metal | Waste Matrix Code: S5123

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.3	0.0	0.0	0.0	0.0	0.3
Drum / 55-gallon	12.3	0.0	0.0	0.0	0.0	12.3
Totals	12.6	0.0	0.0	0.0	0.0	12.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 12.6 | Projected: 0.0 | Total: 12.6

Final Waste Form: Stored: 0.0 | Projected: 0.0 | Total: 0.0

WASTE STREAM DESCRIPTION	This waste stream includes any type or size or ceramic crubicles or liners including LECO crucibles. This waste consists of magnesium oxide ceramic crucible, magnesium oxide crucible fragments with reactive salts of calcium, magnesium, sodium, and/or potassium adhering to the surface and containing plutonium residue.
WASTE STREAM SOURCE	Item Description Code 368 During normal process operations, the Electrorefining, Reduction and Button Breakout, Direct Oxide Reduction, and Salt Scrub processes in Buildings 559, 771, and 779 generated broken magnesium oxide crucible pieces. A detailed description of the generating processes presented above can be found in the WSRIC Building Books. However, in general, the crucibles were used to heat plutonium with salts or accelerators allowing for purification or recovery of actinide metals. Upon cooling to room temperature, the crucible or crucible insert used in the process would be broken and its contents removed.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W114	Handling:	CH	NMVP #:	N/A	Stream Name:	Mg Oxide Crucibles/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-metal

Inventory Date: 3/6/95

Waste Matrix Code: S5123

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes							Final Waste Form Volumes						
Container	Stored	Pre-97	98-02	03-12	13-22	Totals	Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	33.1	0.0	0.0	0.0	0.0	33.1							
Totals	33.1	0.0	0.0	0.0	0.0	33.1							

As-Generated Form:	Stored:	33.1	Projected:	0.0	Total:	33.1	Final Waste Form:	Stored:	0.0	Projected:	0.0	Total:	0.0

WASTE STREAM DESCRIPTION	This waste stream includes any type or size or ceramic crubicles or liners including LECO crucibles. This waste consists of magnesium oxide ceramic crucible, magnesium oxide crucible fragments with reactive salts of calcium, magnesium, sodium, and/or potassium adhering to the surface and containing plutonium residue.
WASTE STREAM SOURCE	Item Description Code 370 The laboratories in Buildings 559 and 771 generated LECO crucibles and broken LECO crucible pieces. These crucibles were used for carbon analyses of plutonium metals and oxides. Stainless steel pins were also heated in these crucibles for calibration purposes.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W121 | Handling: CH | NMVP #: N/A | Stream Name: Cemented filters/TRU | Inventory Date: 3/6/95
Local ID: None | Type: TRU | Generator Site: RF | Final Waste Form: Filter | Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	6.9	0.0	0.0	0.0	0.0	6.9
Totals	6.9	0.0	0.0	0.0	0.0	6.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 6.9 Projected: 0.0 Total: 6.9

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	Processed filter media, IDC 376, is material which has been treated using Portland cement to absorb moisture and neutralize acid contamination. Filter waste is packaged in 55-gallon drums and metal standard waste boxes. Inventory data include residues within the same IDCs because they are regulated as waste.
WASTE STREAM SOURCE	The material in this IDC is the filter media portion of acid-contaminated glovebox or plenum HEPA filters or Ful-Flo filters with free liquids. Processing was performed in the Site Reduction Vaults in Building 776. Used HEPA filters were processed to separate any portions containing high plutonium content from portions with low content. The wood frames were separated from the media and usually disposed of as waste by packing in a drum that was assigned IDC 330. The filter media pieces were identified as IDC 339 if they were high in radioactivity and packaged and stored for future recovery of the plutonium. If the pieces of media were low in radioactivity, they were identified as IDC 376 and packaged for shipment as waste. The media were placed in crates, Portland cement was added, then crates were sealed. Some IDC 376 material could be the remaining material after the IDC 338 media were processed to recover the plutonium. Ful-Flo filters which were used to filter corrosive gas were also processed to separate any portions containing high plutonium content from portions with low plutonium content. Pieces of media with low activity were identified as IDC 376 and packaged for shipment as waste. The media were placed in approximately 10-gallon plastic bags and Portland cement was added. The bags were then sealed and placed in a drum. IDC 376 filter media in this backlog population was derived from the processing of HEPA filters from Buildings 371, 771, 776, and 770. The HEPA filters could have orginally been assigned IDCs 335 342, 490, 491 or 492. Filter media from Building 771 could have been used to filter nitric acid vapors.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W116 | Handling: CH | NMVP #: N/A | Stream Name: Sand, Slag and Crucible/TRU | Inventory Date: 3/6/95
Local ID: None | Type: TRU | Generator Site: RF | Final Waste Form: Solidified Inorganics | Waste Matrix Code: S3119

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste includes pulverized and unpulverized sand, slag, and crucible.
WASTE STREAM SOURCE	Item Description Code 390 This IDC consists primarily of unpulverized slag generated as a residue from the reduction of plutonium tetrafluoride to plutonium metal using calcium metal as the reductant. This reduction operation was performed in a reaction vessel within Glovebox (Line) 17 in Building 771. The unpulverized slag is generated from the separation of calcium fluoride slag from the sand and crucible residues following the removal of the plutonium metal button. Calcium fluoride is produced from the reaction of the calcium metal with the plutonium fluoride. Unpulverized slag is placed in 4-liter, wide mouth, polyethylene bottles for removal from the glovebox. After the bottles are bagged out, they are assayed individually. The bottles are stored awaiting crushing prior to plutonium recovery by dissolution. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W116 | Handling: CH | NMVP #: N/A | Stream Name: Sand, Slag and Crucible/TRU | Inventory Date: 3/6/95
Local ID: None | Type: TRU | Generator Site: RF | Final Waste Form: Solidified Inorganics | Waste Matrix Code: S3119

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

Container	As-Generated Waste Form Volumes: Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.02	0.0	0.0	0.0	0.0	0.02
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes: Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste includes pulverized and unpulverized sand, slag, and crucible.
WASTE STREAM SOURCE	Item Description Code 391 This IDC constists primarily of unpulverized sand and crucible generated as a residue form the reduction of plutonium tetrafluoride to plutonium metal, using calcium metal as the reductant. This reduction operation was performed in a reaction vessel within Glovebox (Line) 17 in Building 771. The unpulverized sand and crucible are generated from the separation of sand and crucible residues from the calcium fluoride slag following the removal of the plutonium metal button. Unpulverized sand and crucible is placed in 4-liter, wide-mouth, polyethylene bottles for removal from the glovebox. After the bottles are bagged out, they are assayed individually. The bottles are stored awaiting crushing prior to plutonium recovery by dissolution. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W116	Handling:	CH	NMVP #:	N/A	Stream Name:	Sand, Slag and Crucible/TRU	Inventory Date:	3/6/95
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3119

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

	As-Generated Waste Form Volumes						Final Waste Form Volumes						
Container	Stored	Pre-97	98-02	03-12	13-22	Totals	Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.02	0.0	0.0	0.0	0.0	0.02							
Totals	0.0	0.0	0.0	0.0	0.0	0.0							

As-Generated Form:	Stored:	0.02	Projected:	0.0	Total:	0.02	Final Waste Form:	Stored:	0.0	Projected:	0.0	Total:	0.0

WASTE STREAM DESCRIPTION	This waste includes pulverized and unpulverized sand, slag, and crucible.
WASTE STREAM SOURCE	IDC 392 consists of unseparated IDC 391 materials. Unpulverized sand, slag, and crucible are placed in 4-liter, wide-mouthed, polyethylene bottles for removal from the glovebox. After the containers are bagged out, they are assayed individually. The sand, slag, and crucible are stored awaiting crushing prior to plutonium recovery by dissolution. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W114	Handling:	CH	NMVP #:	N/A	Stream Name:	Mg Oxide Sand/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics

Inventory Date: 3/6/95

Waste Matrix Code: S5123

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.02	0.0	0.0	0.0	0.0	0.02
Drum / 55-gallon	1.9	0.0	0.0	0.0	0.0	1.9
Totals	1.9	0.0	0.0	0.0	0.0	1.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form:	Stored:	1.9	Projected:	0.0	Total:	1.9
Final Waste Form:	Stored:	0.0	Projected:	0.0	Total:	0.0

WASTE STREAM DESCRIPTION	This waste stream includes any type or size or ceramic crubicles or liners including LECO crucibles. This waste consists of magnesium oxide ceramic crucible, magnesium oxide crucible fragments with reactive salts of calcium, magnesium, sodium, and/or potassium adhering to the surface and containing plutonium residue.
WASTE STREAM SOURCE	Item Description Code 394 Button breakout sand, contains fine particulates and may contain reactive metals (calcium and plutonium). Must be solidified prior to certification to NTS or WIPP. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W116	Handling: CH	NMVP #: N/A	Stream Name: Sand, Slag and Crucible/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Solidified Inorganics		Waste Matrix Code: S3119

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

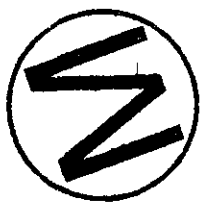
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

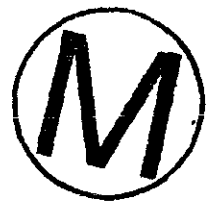
Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.00 Projected: 0.0 Total: 0.00

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0



WASTE STREAM DESCRIPTION	This waste includes pulverized and unpulverized sand, slag, and crucible.
WASTE STREAM SOURCE	Item Description Code 395 This IDC consists primarily of unpulverized slag and crucible generated as a residue from the reduction of plutonium tetrafluoride to plutonium metal, using calcium metal as the reductant. This reduction operation was performed in a reaction vessel within Glovebox (Line) 17 in Building 771. The unpulverized slag and crucible are generated from the separation of calcium fluoride slag and crucible residues from the magnesium oxide sand following the removal of the plutonium metal button. Calcium fluoride is produced from the reaction of the calcium metal with the plutonim fluoride. Unpulverized slag and crucible are placed in 4-liter, wide-mouth, polyethylene bottles for removal from the golvebox. After the bottles are bagged out, they are assayed individually. The bottles are stored awaiting crushing prior to plutonium recovery by dissolution. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W116	Handling: CH	NMVP #: N/A	Stream Name: Sand, Slag and Crucible/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Solidified Inorganics		Waste Matrix Code: S3119

AS-GENERATED EPA CODES	TRUCON CODE	FINAL FORM RADIONUCLIDES
N/A	N/A	N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.00 Projected: 0.0 Total: 0.00

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste includes pulverized and unpulverized sand, slag, and crucible.
WASTE STREAM SOURCE	Item Description Code 396 This IDC consists primarily of pulverized slag generated from the crushing and grinding of calcium fluoride slag in preparation for dissolution. This crushing operation was performed with the jaw crusher and hammer mill (constructed of mild steel) within Gloveboxes (Lines) 43B and 43C in Building 771. The pulverized slag is placed in 4-liter, wide-mouth, polyethylene bottles for removal from the glovebox. After the bottles are bagged out, they are assayed individually. The bottles are stored awaiting plutonium recovery by dissolution. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W116	Handling: CH	NMVP #: N/A	Stream Name: Sand, Slag and Crucible/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Solidified Inorganics		Waste Matrix Code: S3119

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

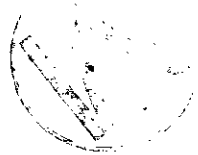
N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes						
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Drum / 55-gallon	5.6	0.0	0.0	0.0	0.0	5.6
Totals	5.6	0.0	0.0	0.0	0.0	5.6

Final Waste Form Volumes						
Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form:	Stored: 5.6	Projected: 0.0	Total: 5.6	Final Waste Form:	Stored: 0.0	Projected: 0.0	Total: 0.0



WASTE STREAM DESCRIPTION	This waste includes pulverized and unpulverized sand, slag, and crucible.
WASTE STREAM SOURCE	Item Description Code 396 This IDC consists primarily of pulverized sand, slag, and crucible generated from the crushing and grinding of magnesium oxide sand, calcium fluoride slag, and broken reduction crucibles in preparation for dissolution. This crushing operation was performed with the jaw crusher and hammer mill (constructed of mild steel) in Gloveboxes (Lines) 43B and 43C in Building 771. The pulverized sand, slag, and crucible are placed in 4-liter, wide-mouth, polyethylene bottles for removal from the glovebox. After the bottles are bagged out, they are assayed individually. The containers are stored awaiting plutonium recovery by dissolution. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W103	Handling:	CH	NMVP #:	N/A	Stream Name:	Misc Pu Recovery ByProduct/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Salt Waste

Inventory Date: 3/6/95

Waste Matrix Code: S3141

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.8 Projected: 0.0 Total: 0.8

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste is generated during plutonium recovery operations such as direct oxide reduction, molten salt extration, electrorefining, and salt scrub.
WASTE STREAM SOURCE	IDC 404 salt is composed primarily of sodium chloride, potassium chloride, calcium chloride, residual zinc chloride, entrained zinc and calcium metal, and various plutonium and americium compounds. Sodium and potassium metal may also be present due to the reduction of these metals by the excess calcium metal.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A

FINAL FORM COMMENTS

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W103	Handling:	CH	NMVP #:	N/A	Stream Name:	Misc Pu Recovery ByProduct/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Salt Waste

Inventory Date: 3/6/95

Waste Matrix Code: S3141

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Cans/2-liter	0.01	0.0	0.0	0.0	0.0	0.01
Drum / 55-gallon	6.0	0.0	0.0	0.0	0.0	6.0
Totals	6.0	0.0	0.0	0.0	0.0	6.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 6.0 Projected: 0.0 Total: 6.0

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste is generated during plutonium recovery operations such as direct oxide reduction, molten salt extration, electrorefining, and salt scrub.
WASTE STREAM SOURCE	Plutonium metal containing unacceptable levels of americium was combined with an equimolar mixture of sodium chloride and potassium chloride with magnesium chloride. The metal and salts were placed in a tantalum crucible and then in a furnace and heated until molten. The molten material was then stirred. While the mixture was molten, the magnesium chloride oxidized most of the americium and some of the plutonium, and the oxidized actinides went to the salt phase. After stirring, the salt and metal phases were allowed to separate at the elevated temperature. This process produced IDCs 405-410. IDC 405 and 406 were generated when an unknown weight percent of magnesium chloride was used in the fresh salt. IDCs 407 and 408 were produced when an 8-weight-percent ratio of magnesium chloride was used in the fresh salt. IDCs 409 and 410 were formed when a 30-mole-percent ratio of magnesium chloride was used in the fresh salt. For all of these IDCs, the spent salt is composed primarily of sodium chloride, potassium chloride, residual magnesium chloride, entrained magnesium metal, and various plutonium and americium compounds. Any of the above MSE salts which have been packaged for off-site shipment were assigned IDC 416.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W103	Handling: CH	NMVP #: N/A	Stream Name: Misc Pu Recovery ByProduct/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Salt Waste		Waste Matrix Code: S3141

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Celluiosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

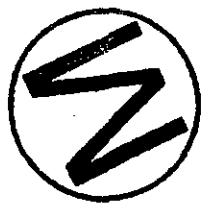
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Cans/2-liter	0.05	0.0	0.0	0.0	0.0	0.05
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.05 Projected: 0.0 Total: 0.05

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0



WASTE STREAM DESCRIPTION	This waste is generated during plutonium recovery operations such as direct oxide reduction, molten salt extration, electrorefining, and salt scrub.
WASTE STREAM SOURCE	Plutonium metal containing unacceptable levels of americium was combined with an equimolar mixture of sodium chloride and potassium chloride with magnesium chloride. The metal and salts were placed in a tantalum crucible and then in a furnace and heated until molten. The molten material was then stirred. While the mixture was molten, the magnesium chloride oxidized most of the americium and some of the plutonium, and the oxidized actinides went to the salt phase. After stirring, the salt and metal phases were allowed to separate at the elevated temperature. This process produced IDCs 405-410. IDC 405 and 406 were generated when an unknown weight percent of magnesium chloride was used in the fresh salt.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W103	Handling: CH	NMVP #: N/A	Stream Name: Misc Pu Recovery ByProduct/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Salt Waste		Waste Matrix Code: S3141

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.01	0.0	0.0	0.0	0.0	0.01
Drum / 55-gallon	4.0	0.0	0.0	0.0	0.0	4.0
Totals	4.0	0.0	0.0	0.0	0.0	4.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 4.0 Projected: 0.0 Total: 4.0

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste is generated during plutonium recovery operations such as direct oxide reduction, molten salt extration, electrorefining, and salt scrub.
WASTE STREAM SOURCE	Plutonium metal containing unacceptable levels of americium was combined with an equimolar mixture of sodium chloride and potassium chloride with magnesium chloride. The metal and salts were placed in a tantalum crucible and then in a furnace and heated until molten. The molten material was then stirred. While the mixture was molten, the magnesium chloride oxidized most of the americium and some of the plutonium, and the oxidized actinides went to the salt phase. After stirring, the salt and metal phases were allowed to separate at the elevated temperature. This process produced IDCs 405-410. IDCs 407 and 408 were produced when an 8-weight-percent ratio of magnesium chloride was used in the fresh salt.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W103	Handling:	CH	NMVP #:	N/A	Stream Name:	Misc Pu Recovery ByProduct/TRU	Inventory Date:	3/6/95
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Salt Waste	Waste Matrix Code:	S3141

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	1.2	0.0	0.0	0.0	0.0	1.2
Totals	1.2	0.0	0.0	0.0	0.0	1.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 1.2 Projected: 0.0 Total: 1.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste is generated during plutonium recovery operations such as direct oxide reduction, molten salt extration, electrorefining, and salt scrub.
WASTE STREAM SOURCE	Plutonium metal containing unacceptable levels of americium was combined with an equimolar mixture of sodium chloride and potassium chloride with magnesium chloride. The metal and salts were placed in a tantalum crucible and then in a furnace and heated until molten. The molten material was then stirred. While the mixture was molten, the magnesium chloride oxidized most of the americium and some of the plutonium, and the oxidized actinides went to the salt phase. After stirring, the salt and metal phases were allowed to separate at the elevated temperature. This process produced IDCs 405-410. IDC 405 and 406 were generated when an unknown weight percent of magnesium chloride was used in the fresh salt. IDCs 407 and 408 were produced when an 8-weight-percent ratio of magnesium chloride was used in the fresh salt. IDCs 409 and 410 were formed when a 30-mole-percent ratio of magnesium chloride was used in the fresh salt. For all of these IDCs, the spent salt is composed primarily of sodium chloride, potassium chloride, residual magnesium chloride, entrained magnesium metal, and various plutonium and americium compounds. Any of the above MSE salts which have been packaged for off-site shipment were assigned IDC 418.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W103	Handling:	CH	NMVP #:	N/A	Stream Name:	Misc Pu Recovery ByProduct/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Salt Waste

Inventory Date: 3/6/95

Waste Matrix Code: S3141

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

Container	As-Generated Waste Form Volumes: Stored	Pre-97	98-02	03-12	13-22	Totals
Cans/2-liter	0.05	0.0	0.0	0.0	0.0	0.05
Drum / 55-gallon	56.2	0.0	0.0	0.0	0.0	56.2
Totals	56.2	0.0	0.0	0.0	0.0	56.2

Final Waste Form Volumes: Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 56.2 Projected: 0.0 Total: 56.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste is generated during plutonium recovery operations such as direct oxide reduction, molten salt extration, electrorefining, and salt scrub.
WASTE STREAM SOURCE	Plutonium metal containing unacceptable levels of americium was combined with an equimolar mixture of sodium chloride and potassium chloride with magnesium chloride. The metal and salts were placed in a tantalum crucible and then in a furnace and heated until molten. The molten material was then stirred. While the mixture was molten, the magnesium chloride oxidized most of the americium and some of the plutonium, and the oxidized actinides went to the salt phase. After stirring, the salt and metal phases were allowed to separate at the elevated temperature. This process produced IDCs 405-410. IDC 405 and 406 were generated when an unknown weight percent of magnesium chloride was used in the fresh salt. IDCs 407 and 408 were produced when an 8-weight-percent ratio of magnesium chloride was used in the fresh salt. IDCs 409 and 410 were formed when a 30-mole-percent ratio of magnesium chloride was used in the fresh salt. For all of these IDCs, the spent salt is composed primarily of sodium chloride, potassium chloride, residual magnesium chloride, entrained magnesium metal, and various plutonium and americium compounds. Any of the above MSE salts which have been packaged for off-site shipment were assigned IDC 418.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W103	Handling: CH	NMVP #: N/A	Stream Name: Misc Pu Recovery ByProduct/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Salt Waste		Waste Matrix Code: S3141

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Drum / 55-gallon	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form:	Stored: 0.8	Projected: 0.0	Total: 0.8	Final Waste Form:	Stored: 0.0	Projected: 0.0	Total: 0.0

WASTE STREAM DESCRIPTION	This waste is generated during plutonium recovery operations such as direct oxide reduction, molten salt extration, electrorefining, and salt scrub.
WASTE STREAM SOURCE	Plutonium metal containing unacceptable levels of americium was combined with an equimolar mixture of sodium chloride and potassium chloride with magnesium chloride. The metal and salts were placed in a tantalum crucible and then in a furnace and heated until molten. The molten material was then stirred. While the mixture was molten, the magnesium chloride oxidized most of the americium and some of the plutonium, and the oxidized actinides went to the salt phase. After stirring, the salt and metal phases were allowed to separate at the elevated temperature. This process produced IDCs 405-410. IDC 405 and 406 were generated when an unknown weight percent of magnesium chloride was used in the fresh salt. IDCs 407 and 408 were produced when an 8-weight-percent ratio of magnesium chloride was used in the fresh salt. IDCs 409 and 410 were formed when a 30-mole-percent ratio of magnesium chloride was used in the fresh salt. For all of these IDCs, the spent salt is composed primarily of sodium chloride, potassium chloride, residual magnesium chloride, entrained magnesium metal, and various plutonium and americium compounds. Any of the above MSE salts which have been packaged for off-site shipment were assigned IDC 418.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W103	Handling:	CH	NMVP #:	N/A	Stream Name:	Misc Pu Recovery ByProduct/TRU	Inventory Date:	3/6/95
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Salt Waste	Waste Matrix Code:	S3141

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	4.6	0.0	0.0	0.0	0.0	4.6
Drum / 55-gallon	34.3	0.0	0.0	0.0	0.0	34.3
Totals	38.9	0.0	0.0	0.0	0.0	38.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 38.9 Projected: 0.0 Total: 38.9

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste is generated during plutonium recovery operations such as direct oxide reduction, molten salt extration, electrorefining, and salt scrub.
WASTE STREAM SOURCE	Nonspecification plutonium metal, cast as an anode, was combined with and equimolar mixture of sodium chloride and potassium chloride in a magnesium oxide crucible. Magnesium chloride was then added to initiate the plutonium oxidation. The metal and salts were placed in a furnace and heated until molten. The molten mixture was stirred, and a current applied to the anode which flowed through the molten mixture to the cathode. Plutonium ions migrated from the molten anode through the molten salt to the cathode and were reduced to purified metal. After cooling, the crucible was broken and the salt, anode heel, and purified plutonium metal were separated. This process produced IDC 411 salts. IDC 411 is composed primarily of sodium chloride, potassium chloride, residual magnesium chloride, entrained magnesium metals, and various plutonium compounds. These salts may contain sodium and potassium metal that was produced during the electrolysis of the molten salt mixture. IDC 411 salt packaged for off-site shipment was assigned IDC 473. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates ? 1wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W103	Handling:	CH	NMVP #:	N/A	Stream Name:	Misc Pu Recovery ByProduct/TRU	Inventory Date:	3/6/95
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Salt Waste	Waste Matrix Code:	S3141

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form:	Stored:	0.6	Projected:	0.0	Total:	0.6

Final Waste Form:	Stored:	0.0	Projected:	0.0	Total:	0.0

WASTE STREAM DESCRIPTION	This waste is generated during plutonium recovery operations such as direct oxide reduction, molten salt extration, electrorefining, and salt scrub.
WASTE STREAM SOURCE	Impure metal was placed in a crucible with sodium chloride, potassium chloride, and zinc chloride. The crucible and contents were heated in a furnace until the contents were molten and the mixture was stirred. While molten, the zinc chloride reacted with the plutonium metal to form plutonium chloride and zinc metal. The contents separated into salt and metal products at process temperature. After cooling and breakout, the plutonium-rich salt phase was reloaded into a crucible along with calcium metal. The crucible and contents were heated in a furnace until the contents were molten and the mixture was stirred. While molten, the calcium reduced the plutonium chloride to plutonium metal. After cooling, the crucible was broken and the metal and salt were separated. This process produced IDC 412 salts. IDC 412 is a Given salt which was generated by an experimental pyroredox process. The salt is composed primarily of sodium chloride, potassium chloride, calcium chloride, residual zinc chloride, entrained zinc and calcium metal, and various plutonium and americium compounds. Sodium and potassium metal may also be present due to the reduction of these metals by the excess calcium metal. RE: Section 6.2.11, RFETS doesn't expect nitrates, sulfates, phosphates ? 1wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W103	Handling:	CH	NMVP #:	N/A	Stream Name:	Misc Pu Recovery ByProduct/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Salt Waste

Inventory Date: 3/6/95

Waste Matrix Code: S3141

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.00 Projected: 0.0 Total: 0.00

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste is generated during plutonium recovery operations such as direct oxide reduction, molten salt extration, electrorefining, and salt scrub.
WASTE STREAM SOURCE	IDC 413 was generated by the scraping and cleaning of pyrochemical furnace cells and consists of spent pyrochemical salts and magnesium, calcium, sodium, and potassium metals which vaporized during the pyrochemical processes and collected on the cold parts of the cells. The scraped-out material may have been reheated in a furnace to oxidize the metals; however, this did not always occur. This salt could contain compounds present in any of the pyrochemical salts.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W103	Handling: CH	NMVP #: N/A	Stream Name: Misc Pu Recovery ByProduct/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Salt Waste		Waste Matrix Code: S3141

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.01	0.0	0.0	0.0	0.0	0.01
Drum / 55-gallon	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.8 Projected: 0.0 Total: 0.8

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste is generated during plutonium recovery operations such as direct oxide reduction, molten salt extration, electrorefining, and salt scrub.
WASTE STREAM SOURCE	Calcined plutonium oxide was placed in a magnesium oxide crucible with calcium chloride and calcium metal. The crucible and contents were placed in a furnace and heated until the contents were molten. The molten material was stirred to initiate and promote the reduction of the plutonium oxide. After the reaction, the melt was allowed to separate into plutonium metal and salt phases. After cooling, the crucible was broken and separated from the salt, calcium, and plutonium metal. This process produced IDCs 365 and 414. IDCs 365 and 414 are composed primarily of calcium chloride, calcium oxide, calcium metal entrained in the salt, and various plutonium compounds. A "button" of excess calcium may also be present in some containers of these salts. IDC 365 was produced by a failed DOR run and is expected to contain higher levels of plutonium oxide and calcium metal than IDC 414. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W103	Handling:	CH	NMVP #:	N/A	Stream Name:	Misc Pu Recovery ByProduct/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Salt Waste

Inventory Date: 3/6/95
Waste Matrix Code: S3141

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.04	0.0	0.0	0.0	0.0	0.04
Drum / 55-gallon	1.7	0.0	0.0	0.0	0.0	1.7
Totals	1.7	0.0	0.0	0.0	0.0	1.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 1.7 Projected: 0.0 Total: 1.7

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste is generated during plutonium recovery operations such as direct oxide reduction, molten salt extration, electrorefining, and salt scrub.
WASTE STREAM SOURCE	The salt assigned IDC 415 was generated by an experimental MSE process which used plutonium trichloride as an oxidizer. The spent salt is composed primarily of calcium chloride with various plutonium and americium compounds. No reactive metals are present in this salt. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W103	Handling: CH	NMVP #: N/A	Stream Name: Misc Pu Recovery ByProduct/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Salt Waste		Waste Matrix Code: S3141

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.01	0.0	0.0	0.0	0.0	0.01
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.01 Projected: 0.0 Total: 0.01

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste is generated during plutonium recovery operations such as direct oxide reduction, molten salt extration, electrorefining, and salt scrub.
WASTE STREAM SOURCE	IDC 416 is small billets or ingots of zinc-magnesium alloy metal containing plutonium which were generated from a research and development (R&D) salt cleanup project in Building 776 and 779. The weight percent of magnesium in alloy will range from 10 percent to 30 percent (EG&G Idaho 1992). RE: Section 6.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W103	Handling:	CH	NMVP #:	N/A	Stream Name:	Misc Pu Recovery ByProduct/TRU	Inventory Date:	3/6/95
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Salt Waste	Waste Matrix Code:	S3141

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.1	0.0	0.0	0.0	0.0	0.1
Totals	0.1	0.0	0.0	0.0	0.0	0.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.1 Projected: 0.0 Total: 0.1

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste is generated during plutonium recovery operations such as direct oxide reduction, molten salt extration, electrorefining, and salt scrub.
WASTE STREAM SOURCE	IDC 417 is decesium hexachloroplutonate salt synthesized for use in the molten salt extraction process. With the change of the plant mission from recovery and production to environmental cleanup, the material became a waste. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W103	Handling:	CH	NMVP #:	N/A	Stream Name:	Misc Pu Recovery ByProduct/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Salt Waste

Inventory Date: 3/6/95

Waste Matrix Code: S3141

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.1	0.0	0.0	0.0	0.0	0.1
Totals	0.1	0.0	0.0	0.0	0.0	0.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.1 Projected: 0.0 Total: 0.1

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste is generated during plutonium recovery operations such as direct oxide reduction, molten salt extration, electrorefining, and salt scrub.
WASTE STREAM SOURCE	Plutonium metal containing unacceptable levels of americium was combined with an equimolar mixture of sodium chloride and potassium chloride with magnesium chloride. The metal and salts were placed in a tantalum crucible and then in a furnace and heated until molten. The molten material was then stirred. While the mixture was molten, the magnesium chloride oxidized most of the americium and some of the plutonium, and the oxidized actinides went to the salt phase. After stirring, the salt and metal phases were allowed to separate at the elevated temperature. This process produced IDCs 405-410. IDC 405 and 406 were generated when an unknown weight percent of magnesium chloride was used in the fresh salt. IDCs 407 and 408 were produced when an 8-weight-percent ratio of magnesium chloride was used in the fresh salt. IDCs 409 and 410 were formed when a 30-mole-percent ratio of magnesium chloride was used in the fresh salt. For all of these IDCs, the spent salt is composed primarily of sodium chloride, potassium chloride, residual magnesium chloride, entrained magnesium metal, and various plutonium and americium compounds. Any of the above MSE salts which have been packaged for off-site shipment were assigned IDC 418. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W103	Handling:	CH	NMVP #:	N/A	Stream Name:	Misc Pu Recovery ByProduct/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Salt Waste

Inventory Date: 3/6/95

Waste Matrix Code: S3141

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.3	0.0	0.0	0.0	0.0	0.3
Drum / 55-gallon	1.0	0.0	0.0	0.0	0.0	1.0
Totals	1.3	0.0	0.0	0.0	0.0	1.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 1.3 Projected: 0.0 Total: 1.3

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste is generated during plutonium recovery operations such as direct oxide reduction, molten salt extration, electrorefining, and salt scrub.
WASTE STREAM SOURCE	In March 1989, the MSE process was converted from the use of magnesium chloride as an oxidizer to the use of dicesium hexachloroplutonate (DCHP) and calcium chloride instead of the equimolar mixture of sodium chloride and potassium chloride. The converted process produced IDC 427 composed primarily of calcium chloride, cesium chloride, and various plutonium and americium compounds. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W103	Handling:	CH	NMVP #:	N/A	Stream Name:	Misc Pu Recovery ByProduct/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Salt Waste

Inventory Date: 3/6/95

Waste Matrix Code: S3141

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Drum / 55-gallon	9.2	0.0	0.0	0.0	0.0	9.2
Totals	9.2	0.0	0.0	0.0	0.0	9.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 9.2 Projected: 0.0 Total: 9.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste is generated during plutonium recovery operations such as direct oxide reduction, molten salt extration, electrorefining, and salt scrub.
WASTE STREAM SOURCE	IDC 429 salt was generated using magnesium and aluminum. This IDC represents salts produced from the salt scrub of MSE salts using magnesium chloride. This salt is composed primarily of sodium chloride, potassium chloride, magnesium chloride, entrained magnesium and aluminum metal, and various plutonium and americium compounds.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W122	Handling:	CH	NMVP #:	N/A	Stream Name:	Organic Resins/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Organics

Inventory Date: 3/6/95

Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.8 Projected: 0.0 Total: 0.8

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	It consists of unleached resin (IDC 430) and leached resin (IDC 431).
WASTE STREAM SOURCE	The ion-exchange resins were important to the plutonium purification processes at RFETS. Plutonium-contaminated materials were often dissolved in nitric acid and processed through ion exchange. The ion-exchange resin contained in an ion-exchange column was charged with highly concentrated nitric acids by trickling this solution through the columns. A plutonium-contaminated solution was then trickled through the column. The charged resin beads attracted the plutonium from the contaminated solution to the surface of the resin bead. The loaded resin beads were then leached by trickling another nitric acid solution through the tube. This final nitric acid solution drew the plutonium from the beads into solution and allowed for purification of the plutonium. The resin was periodically replaced when this process had depleted the efficiency of the resin. The ion exchange resins in use at Rocky Flats were generally small plastic (polystyrene) beads in which long-chain organic compounds with an activated group are imbedded (such as Dowex 1 x 2). Unleached resin IDC 430, was produced when the resin ion exchange columns were replaced. Though this IDC is titled "unleached" resin, the generators of resins confirm that all resins were rinsed with, at least, weak acid before the resins were removed from the columns. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1wt%, but has no supporting data..
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W122	Handling: CH	NMVP #: N/A	Stream Name: Organic Resins/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Solidified Organics		Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Drum / 55-gallon	3.1	0.0	0.0	0.0	0.0	3.1
Totals	3.1	0.0	0.0	0.0	0.0	3.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 3.1 Projected: 0.0 Total: 3.1

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	It consists of unleached resin (IDC 430) and leached resin (IDC 431).
WASTE STREAM SOURCE	The ion-exchange resins were important to the plutonium purification processes at RFETS. Plutonium-contaminated materials were often dissolved in nitric acid and processed through ion exchange. The ion-exchange resin contained in an ion-exchange column was charged with highly concentrated nitric acids by trickling this solution through the columns. A plutonium-contaminated solution was then trickled through the column. The charged resin beads attracted the plutonium from the contaminated solution to the surface of the resin bead. The loaded resin beads were then leached by trickling another nitric acid solution through the tube. This final nitric acid solution drew the plutonium from the beads into solution and allowed for purification of the plutonium. The resin was periodically replaced when this process had depleted the efficiency of the resin. The ion exchange resins in use at Rocky Flats were generally small plastic (polystyrene) beads in which long-chain organic compounds with an activated group are imbedded (such as Dowex 1 x 2). Leached resin IDC 431, was produced when the resin ion exchange columns was replaced. The resin was leached (rinsed) with water before the resin was removed from the columns. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt%, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W103	Handling: CH	NMVP #: N/A	Stream Name: Misc Pu Recovery ByProduct/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Salt Waste		Waste Matrix Code: S3141

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Drum / 55-gallon	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste is generated during plutonium recovery operations such as direct oxide reduction, molten salt extration, electrorefining, and salt scrub.
WASTE STREAM SOURCE	IDC 433 salt was also generated using magnesium and aluminum. This IDC represents salts produced from the salt scrub of IDC 427 MSE salts. This salt is composed primarily of calcium chloride, cesium chloride, entrained magnesium and aluminum metal, and various plutonium and americium compounds. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W103	Handling: CH	NMVP #: N/A	Stream Name: Misc Pu Recovery ByProduct/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Salt Waste		Waste Matrix Code: S3141

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste is generated during plutonium recovery operations such as direct oxide reduction, molten salt extration, electrorefining, and salt scrub.
WASTE STREAM SOURCE	IDC 434 was generated using calcium and gallium. This IDC represents salts produced from the salt scrub of MSE DCHP salts. This salt is composed primarily of calcium chloride, cesium chloride, entrained calcium and gallium metal, and various plutonium and americium compounds. A "button" of excess calcium may also be present in some containers of this salt. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W115	Handling:	CH	NMVP #:	RF 122	Stream Name:	Insulation/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-metal

Inventory Date: 9/5/94

Waste Matrix Code: S5129

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

RF 122

FINAL FORM RADIONUCLIDES

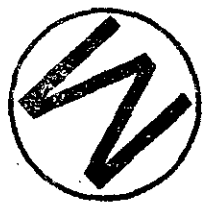
N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes							Final Waste Form Volumes						
Container	Stored	Pre-97	98-02	03-12	13-22	Totals	Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.4	0.0	0.0	0.0	0.0	0.4							
Totals	0.4	0.0	0.0	0.0	0.0	0.4							

As-Generated Form:	Stored:	0.4	Projected:	0.0	Total:	0.4	Final Waste Form:	Stored:	0.0	Projected:	0.0	Total:	0.0

WASTE STREAM DESCRIPTION	This waste stream is contaminated insulation.
WASTE STREAM SOURCE	Item Description Code 438 Maintenance, repair, and strip-out operations in Buildings 371, 374, 444, 559, 666, 707, 771, 774, 776, 777, 779, 865, 881, and 883 produced waste insulation. Insulation waste is generated by replacement of furnace heating elements, construction, maintenance, and demolition activities within the Protected Area at Rocky Flats. During these activities, insulation material is removed from furnaces, boilers, piping, ceilings and walls, and heating and cooling systems.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W113	Handling:	CH	NMVP #:	N/A	Stream Name:	Glass/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-metal

Inventory Date: 3/6/95

Waste Matrix Code: S5122

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes * Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Drum / 55-gallon	1.0	0.0	0.0	0.0	0.0	1.0
Totals	1.0	0.0	0.0	0.0	0.0	1.0

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 1.0 Projected: 0.0 Total: 1.0

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste stream is made up of glass from analytical labs, recovery processes, ceramics, and glovebox windows.
WASTE STREAM SOURCE	IDC 440 includes glass waste from analytical laboratories and recovery processes, standard light bulbs generated inside the PA, and ceramic materials. Glass waste assigned IDC 440 was generated in Buildings 123,371, 444, 559, 707, 771, 776, 777, 889. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1wt%, but has no supporting data. This waste stream is generated from Facility Operations, Analytical Laboratories, and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W113	Handling:	CH	NMVP #:	N/A	Stream Name:	Glass/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal

Inventory Date: 3/6/95

Waste Matrix Code: S5122

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.01	0.0	0.0	0.0	0.0	0.01
Drum / 55-gallon	1.0	0.0	0.0	0.0	0.0	1.0
Totals	1.0	0.0	0.0	0.0	0.0	1.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 1.0 Projected: 0.0 Total: 1.0

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste stream is made up of glass from analytical labs, recovery processes, ceramics, and glovebox windows.
WASTE STREAM SOURCE	IDC 441 includes unleached Raschig Rings to be discarded. Raschig Rings are borosilicate glass rings used to maintain subcritical conditions in fissile solution storage tanks that are not safe by dimension. The boron in the rings is a neutron poison, an element that absorbs neutrons. The volume of the ring displaces a proportionate volume of solution and, in combination with the boron, creates a critically safe configuration. Over time, the rings can become broken or otherwise damaged, especially in air-sparged tanks. In those cases, the rings were removed and replaced. The rings were also replaced if the assay of the tank exceeded acceptable limits. The old rings were assayed, and if the material count was above the economic discard limit (EDL), the rings were leached (rinsed with water or acid) and stored for plutonium recovery. If the material count was below EDL, the rings were packaged for discard without leaching. The unleached rings were assigned IDC 441. Raschig Rings assigned IDC 441 were generated in Buildings 371 and 771. Rings generated in Building 371 were generated by the Process Vent Scrubber System in Rooms 1105 and 2319. The system removed nitric- and sulfuric-acid vapors and entrained liquids from the process vent header streams connected to the Building 371 tanks. The acids were neutralized with potassium hydroxide and water. Vent scrubbers D229 A and B were filled with Raschig Rings. Rings generated in Building 771 were generated in production processes in tanks used to temporarily store radioactive solutions. The solutions could have contained nitric or sulfuric acids, or potassium hydroxide.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W113	Handling: CH	NMVP #: N/A	Stream Name: Glass/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Inorganic Non-Metal		Waste Matrix Code: S5122

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

	As-Generated Waste Form Volumes						Final Waste Form Volumes						
Container	Stored	Pre-97	98-02	03-12	13-22	Totals	Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	2.3	0.0	0.0	0.0	0.0	2.3							
Totals	2.3	0.0	0.0	0.0	0.0	2.3							

As-Generated Form:	Stored:	2.3	Projected:	0.0	Total:	2.3	Final Waste Form:	Stored:	0.0	Projected: 0.0	Total:	0.0

WASTE STREAM DESCRIPTION	This waste stream is made up of glass from analytical labs, recovery processes, ceramics, and glovebox windows.
WASTE STREAM SOURCE	Raschig Rings currently in WEMS assigned IDC 442 were generated in Buildings 771, 776, and 777. Prior to being replaced, the tanks were drained and the rings were leached with dilute nitric acid or water. The rings generated in Building 771 are from the production processes and Tanks D80-85, d0-360, D-361, D-451, D-454, D-467, D-750, D-706, D-922, D-973, D-974, D-980, D-1006, D-1013, D-1022, and D-1081. Rings generated in Building 776 are from the Size Reduction Process and Tanks SR 3, 4, and 5 and as unused rings. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1wt%, but has no supporting data This stream is generated from Facility Operations, Analytical Laboratories, and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W102	Handling:	CH	NMVP #:	N/A	Stream Name:	Ground Leaded Glass/TRU
Local ID:	IDC 444	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal

Inventory Date: 3/6/95

Waste Matrix Code: S5122

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

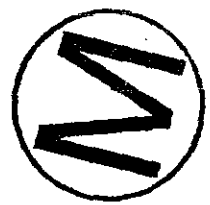
N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes							Final Waste Form Volumes						
Container	Stored	Pre-97	98-02	03-12	13-22	Totals	Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	7.5	0.0	0.0	0.0	0.0	7.5							
Totals	7.5	0.0	0.0	0.0	0.0	7.5							

As-Generated Form:	Stored:	7.5	Projected:	0.0	Total:	7.5	Final Waste Form:	Stored:	0.0	Projected:	0.0	Total:	0.0

WASTE STREAM DESCRIPTION	N/A
WASTE STREAM SOURCE	IDC 444 includes ground fluorescent bulbs and leaded glass used throughout the plutonium- and uranium-processing areas. The material was generated as waste or residue when glovebox glass was replaced, or as low-level waste when fluorescent light bulbs were replaced. IDC 444 materials in the backlog inventory were generated in Building 371, 374, 559, 707, 771, and 776.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W103	Handling:	CH	NMVP #:	N/A	Stream Name:	Misc Pu Recovery ByProduct/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Salt Waste

Inventory Date: 3/6/95

Waste Matrix Code: S3141

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.1	0.0	0.0	0.0	0.0	0.1
Drum / 55-gallon	2.3	0.0	0.0	0.0	0.0	2.3
Totals	2.4	0.0	0.0	0.0	0.0	2.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 2.4 Projected: 0.0 Total: 2.4

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste is generated during plutonium recovery operations such as direct oxide reduction, molten salt extration, electrorefining, and salt scrub.
WASTE STREAM SOURCE	Nonspecification plutonium metal, cast as an anode, was combined with and equimolar mixture of sodium chloride and potassium chloride in a magnesium oxide crucible. Magnesium chloride was then added to initiate the plutonium oxidation. The metal and salts were placed in a furnace and heated until molten. The molten mixture was stirred, and a current applied to the anode which flowed through the molten mixture to the cathode. Plutonium ions migrated from the molten anode through the molten salt to the cathode and were reduced to purified metal. After cooling, the crucible was broken and the salt, anode heel, and purified plutonium metal were separated. This process produced IDC 411 salts. IDC 411 is composed primarily of sodium chloride, potassium chloride, residual magnesium chloride, entrained magnesium metals, and various plutonium compounds. These salts may contain sodium and potassium metal that was produced during the electrolysis of the molten salt mixture. IDC 411 salt packaged for off-site shipment was assigned IDC 473. RE: Section 6.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W109	Handling:	CH	NMVP #:	N/A	Stream Name:	METAL/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal

Inventory Date: 3/6/95

Waste Matrix Code: S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	2.9	0.0	0.0	0.0	0.0	2.9
Totals	2.9	0.0	0.0	0.0	0.0	2.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 2.9 Projected: 0.0 Total: 2.9

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	IDCs 480 and 481. This waste includes items such as gloveboxes and machinery, and empty containers. Items that are difficult to reduce to a size that would fit in a 55-gal. drum are placed in DOT 7A, Type A metal boxes. These drums are lined with a rigid polyethylene liner, fiberboard liner and several bag liners. The boxes are lined with a fiberboard and PVC liner. This waste also includes final form waste of classified metal (IDC Nos. 484, 485,486, 489) after processing to declassified form. Inventory data include residues in IDCs 480 and 481.
WASTE STREAM SOURCE	IDC 479 is assigned to empty reusable cans generated in Buildings 559, 707, and 771 (containers currently in WEMS from these buildings). Stainless-steel cans were used to handle plutonium-contaminated material. Primary generation was through the use of these cans to manually transfer materials between gloveboxes. Cans that were introduced tot he process were typically recycled and reused. there were no generation process descriptions in WSRIC for this waste in Buildings 559, 707, and 771. In Building 371, the Dicesium Hexachloroplutonate (DCHP) Process often used the cans for transferring materials into the stacker.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W109	Handling: CH	NMVP #: N/A	Stream Name: METAL/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Uncategorized Metal		Waste Matrix Code: S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes → Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.1	0.0	0.0	0.0	0.0	0.1
Drum / 55-gallon	15.8	0.0	0.0	0.0	0.0	15.8
Totals	15.9	0.0	0.0	0.0	0.0	15.9

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 15.9 Projected: 0.0 Total: 15.9

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	IDCs 480 and 481. This waste includes items such as gloveboxes and machinery, and empty containers. Items that are difficult to reduce to a size that would fit in a 55-gal. drum are placed in DOT 7A, Type A metal boxes. These drums are lined with a rigid polyethylene liner, fiberboard liner and several bag liners. The boxes are lined with a fiberboard and PVC liner. This waste also includes final form waste of classified metal (IDC Nos. 484, 485,486, 489) after processing to declassified form. Inventory data include residues in IDCs 480 and 481.
WASTE STREAM SOURCE	IDC 480 is assigned to line- and nonline-generated light metals generated in Buildings 371, 374, 444, 559, 707, 771, 774, 776, 777, 779, 865, and 991 (containers currently in WEMS these buildings). Light metals include aluminum, copper, iron, brass, bronze, galvanized metal, stainless steel, carbon steel, and other metal alloys contained in waste mechanical and electrical parts, tools, containers, scrap metals, piping, wire, cable, gauges, valves, foil, planchets, and a variety of other metal items. The maintenance operation was inextricably linked with the generation of the material that created this IDC. The maintenance-generated materials were generated throughout the entire facility. Backlog containers of this IDC may contain a matrix of all light metals listed above.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W109	Handling:	CH	NMVP #:	N/A	Stream Name:	METAL/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal

Inventory Date: 3/6/95

Waste Matrix Code: S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	IDCs 480 and 481. This waste includes items such as gloveboxes and machinery, and empty containers. Items that are difficult to reduce to a size that would fit in a 55-gal. drum are placed in DOT 7A, Type A metal boxes. These drums are lined with a rigid polyethylene liner, fiberboard liner and several bag liners. The boxes are lined with a fiberboard and PVC liner. This waste also includes final form waste of classified metal (IDC Nos. 484, 485,486, 489) after processing to declassified form. Inventory data include residues in IDCs 480 and 481.
WASTE STREAM SOURCE	IDC 484 was assigned to classified non-nuclear material scrap metal shapes made primarily of stainless steel and aluminum. Prior to 1987, IDC 484 included beryllium shapes. These items were generated in Buildings 777 and 779 during disassembly operations of site-return units. Buildings 444, 707, and 883 generated rejected parts. Containers in inventory were generated from February 1983 to May 1991.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W109	Handling: CH	NMVP #: N/A	Stream Name: Metal/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Uncategorized Metal		Waste Matrix Code: S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes							Final Waste Form Volumes						
Container	Stored	Pre-97	98-02	03-12	13-22	Totals	Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2							
Totals	0.2	0.0	0.0	0.0	0.0	0.2							

As-Generated Form:	Stored:	0.2	Projected:	0.0	Total:	0.2	Final Waste Form:	Stored:	0.0	Projected:	0.0	Total:	0.0

WASTE STREAM DESCRIPTION	IDCs 480 and 481. This waste includes items such as gloveboxes and machinery, and empty containers. Items that are difficult to reduce to a size that would fit in a 55-gal. drum are placed in DOT 7A, Type A metal boxes. These drums are lined with a rigid polyethylene liner, fiberboard liner and several bag liners. The boxes are lined with a fiberboard and PVC liner. This waste also includes final form waste of classified metal (IDC Nos. 484, 485,486, 489) after processing to declassified form. Inventory data include residues in IDCs 480 and 481.
WASTE STREAM SOURCE	IDC 485 was assigned to scrap D-38 classified metal shapes. Generation of this material occurred in Buildings 777 during disassembly of site-return units. Building 444 generated rejected parts. Containers in inventory were generated from July 1987 to August 1992.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W109	Handling: CH	NMVP #: N/A	Stream Name: METAL/TRU	Inventory Date:	3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Uncategorized Metal	Waste Matrix Code:	S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	IDCs 480 and 481. This waste includes items such as gloveboxes and machinery, and empty containers. Items that are difficult to reduce to a size that would fit in a 55-gal. drum are placed in DOT 7A, Type A metal boxes. These drums are lined with a rigid polyethylene liner, fiberboard liner and several bag liners. The boxes are lined with a fiberboard and PVC liner. This waste also includes final form waste of classified metal (IDC Nos. 484, 485,486, 489) after processing to declassified form. Inventory data include residues in IDCs 480 and 481.
WASTE STREAM SOURCE	IDC 486 was assigned to classified tooling for disposal. Generation of these tools occurred in Buildings 707 and 777. The material consists primarily of obsolete tooling including pot chucks and inspection gauges. Containers in inventory were generated from October 1982 to December 1992.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W109	Handling:	CH	NMVP #:	N/A	Stream Name:	METAL/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal

Inventory Date: 3/6/95

Waste Matrix Code: S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	1.5	0.0	0.0	0.0	0.0	1.5
Totals	1.5	0.0	0.0	0.0	0.0	1.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 1.5 Projected: 0.0 Total: 1.5

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	IDCs 480 and 481. This waste includes items such as gloveboxes and machinery, and empty containers. Items that are difficult to reduce to a size that would fit in a 55-gal. drum are placed in DOT 7A, Type A metal boxes. These drums are lined with a rigid polyethylene liner, fiberboard liner and several bag liners. The boxes are lined with a fiberboard and PVC liner. This waste also includes final form waste of classified metal (IDC Nos. 484, 485,486, 489) after processing to declassified form. Inventory data include residues in IDCs 480 and 481.
WASTE STREAM SOURCE	IDC 489 was assigned to scrap D-38 classified metal shapes generated in Building 777 and 779 during disassembly of site-return units. Containers in inventory were generated from February 1986 to September 1990.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W118	Handling:	CH	NMVP #:	N/A	Stream Name:	Miscellaneous Liquids/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics

Inventory Date: 3/6/95

Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bottle / 4-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.00 Projected: 0.0 Total: 0.00

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	As result of the shutdown of plutonium operations at RFP in November, 1989, several hundred plastic bottles and several tanks of process liquids remained in storage.
WASTE STREAM SOURCE	The miscellaneous liquids waste form includes uranium solutions from criticality laboratories (IDC 504).
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W118	Handling:	CH	NMVP #:	N/A	Stream Name:	Miscellaneous Liquids/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics

Inventory Date: 3/6/95

Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes → Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bottle / 4-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.00 Projected: 0.0 Total: 0.00

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	As result of the shutdown of plutonium operations at RFP in November, 1989, several hundred plastic bottles and several tanks of process liquids remained in storage.
WASTE STREAM SOURCE	IDC 527 is caustic waste solutions consisting of sodium hydroxide or potassium hydroxide. Low-Level Dissolution in Building 771 used potassium hydroxide for flushing the condenser when dissolvind incinerator ash. H-4 Support Vacuum Systems used potassium hydroxide in an aqueous solution as a seal liquid. Vacuum Systems also used a seal liquid made up of water only. RE: Section 8.2.11, RFETS doesn't expect sulfates, phosphates >1 wt%, but has no supportin data. RFETS does expect nitrate concentration to be >1%, but has no data indicating the actual concentration range.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W118	Handling:	CH	NMVP #:	N/A	Stream Name:	Miscellaneous Liquids/TRU	Inventory Date:	9/5/94
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

		TRUCON CODE	FINAL FORM RADIONUCLIDES
Category:	Defense TRU Waste	N/A	N/A
Residues:	Yes		
Asbestos:	No		
PCBs:	No		
Source:	Facility/Equipment Operation and Maintenance Waste		

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bottle / 4-Liter	0.01	0.0	0.0	0.0	0.0	0.01
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form:	Stored:	0.01	Projected:	0.0	Total:	0.01

Final Waste Form:	Stored:	0.0	Projected:	0.0	Total:	0.0

WASTE STREAM DESCRIPTION	As result of the shutdown of plutonium operations at RFP in November, 1989, several hundred plastic bottles and several tanks of process liquids remained in storage.
WASTE STREAM SOURCE	The Building 371 analytical laboratory receives liquid and solid samples from the entire plant site. Samples that are destined for Building 881 are analyzed in Building 371 to screen out those with high levels of radioactivity. Sludge and aqueous samples from Building 374 are analyzed for total alpha activity and plutonium, uranium, and americium content. Prior to analysis, the sludges are dissolved in nitric acid, hydrogen fluoride, or hydrochloric acid. Reagents are also used in sample preperation. Unused portions or excess prepared sample are placed in 4-liter plastic bottles. The Building 559 analytical laboratory also receives liquid and solid samples from the entire plant site. Samples are analyzed for various ions, iron, silicon, isotopic competion, and americium, gallium, neptunium, plutonium, uranium, and other metals (Resource Conservation and Recovery Act [RCRA] - regulated and nonregulated). Solid samples are dissolved in a variety of acids, including nitric and hydrochloric. Other chemicals used in the laboratory include methanol, chloroform, and other organic solvents; titanium trichloride; ceric ammonium nitrate; sodium hydroxide; silver chloride; silver nitrate; and various metals standards. Unused portions or excess prepared samples are placed in 4-liter plastic bottles. Metal standards are also place on the bottles. The Building 771 analytical laboratory also receives liquid and solid samples from the entire plant site. Samples are analyzed for various metals and ions, pH, and radioactivity. The principal chemicals used in the lab include sodium hydroxide, hydrochloric acid, nitric acid, cyclohexane, trioctyl phosphine oxide, yttrium, and various metal standards. Unused portions or excess prepared samples are placed in 4-liter plastic bottles. Metal standards are also placed in the bottles. RE: Section 8.2.11, RFETS doesn't expect sulfates, phosphates >1 wt%, but has no supporting data. RFETS does expect nitrate concentration to be >1%, but has no data indicating the actual concentration or range.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W123	Handling: CH	NMVP #: N/A	Stream Name: Oxides/TRU		Inventory Date: 3/6/95
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Solidified Inorganics		Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes						
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes						
Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form:	Stored: 0.00	Projected: 0.0	Total: 0.00	Final Waste Form:	Stored: 0.0	Projected: 0.0	Total: 0.0

WASTE STREAM DESCRIPTION	This waste was generated from plutonium recovery operations in Building 771. The waste consists of low-purity oxide heel, incineration sludge, miscellaneous sludge, sludge from size reduction area , grit , soot , and soot heel.
WASTE STREAM SOURCE	IDC 600 consists of an aluminum-magnesium-plutonium alloy generated by the Salt Scrub Process in Building 776 Pyrochemical Processing. The salt from the magnesium chloride-based Molten Salt Extraction Process and small quantities of salt from electrorefining process (R&D only) were combined with elemental aluminum (alloying agent) and magnesium (reductant) in a ceramic crucible. The mixture was melted in a furnace and stirred, resulting in a metal button. When cool, the button was separated from the salt and prepared for transfer to the Savannah River Site for processing.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W123	Handling:	CH	NMVP #:	N/A	Stream Name:	Oxides/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics

Inventory Date: 3/6/95

Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes							Final Waste Form Volumes						
Container	Stored	Pre-97	98-02	03-12	13-22	Totals	Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.00	0.0	0.0	0.0	0.0	0.00							
Totals	0.0	0.0	0.0	0.0	0.0	0.0							

As-Generated Form:	Stored:	0.00	Projected:	0.0	Total:	0.00	Final Waste Form:	Stored:	0.0	Projected:	0.0	Total:	0.0

WASTE STREAM DESCRIPTION	This waste was generated from plutonium recovery operations in Building 771. The waste consists of low-purity oxide heel, incineration sludge, miscellaneous sludge, sludge from size reduction area , grit , soot , and soot heel.
WASTE STREAM SOURCE	IDC 601 was produced in the pyrochemistry research in Building 776 and 779. This IDC was produced during developmental studies of aluminum oxide and magnesium oxide crucibles. These studies were conducted to determine the resistance on the crucible materials to thermal shock. The crucibles would break during processing. IDC 601 is used to describe the pieces of the crucibles collected. The crucibles could be contaminated with pyrochemistry process residues such as salt, plutonium, and small amounts of sodium metal. The aluminum and magnesium oxide was placed in metal cans and stored.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W123	Handling:	CH	NMVP #:	N/A	Stream Name:	Oxides/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics

Inventory Date: 3/6/95

Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste was generated from plutonium recovery operations in Building 771. The waste consists of low-purity oxide heel, incineration sludge, miscellaneous sludge, sludge from size reduction area , grit , soot , and soot heel.
WASTE STREAM SOURCE	IDC 653 consists of the free metal brushed from thesurface of plutonium-neptunium alloy buttons generated by electrorefining in Building 776 Pyrochemical Processing. The brushings were burned and sent to Buildign 771 and reburned prior to dissolution.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W103	Handling:	CH	NMVP #:	N/A	Stream Name:	Misc Pu Recovery ByProduct/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Salt Waste

Inventory Date: 3/6/95

Waste Matrix Code: S3141

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
can / 2-Liter	0.03	0.0	0.0	0.0	0.0	0.03
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste is generated during plutonium recovery operations such as direct oxide reduction, molten salt extration, electrorefining, and salt scrub.
WASTE STREAM SOURCE	IDC 654 salt was generated from experimental ER work to study the distribution of neptunium during electrorefining of plutonium. This salt is composed primarily of sodium chloride and potassium chloride, residual magnesium chloride, entrained magnesium metal, and various plutonium and neptunium compounds. This salt may also contain sodium and potassium metal produced during the electrolysis of the molten salt mixture. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W116	Handling:	CH	NMVP #:	N/A	Stream Name:	Sand, Slag and Crucible/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics

Inventory Date: 3/6/95

Waste Matrix Code: S3119

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Can / 2-Liter	0.00	0.0	0.0	0.0	0.0	0.00
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste includes pulverized and unpulverized sand, slag, and crucible.
WASTE STREAM SOURCE	Item Description Code 655 During normal process operations, the electrorefining of plutonium-neptunium alloy processes in Buildings 776 and 779 generated broken magnesium oxide crucible pieces. The plutonium-neptunium combination was a special case and limited work was performed to generate this material. Upon cooling to room temperature, the crucible used in the process would be broken and its contents removed.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W117	Handling:	CH	NMVP #:	RF115	Stream Name:	Coarse Graphite/TRU	Inventory Date:	9/5/94
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Graphite	Waste Matrix Code:	

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	17.3
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	318.3	51.9	381.9
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

RF 115

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.93E+01
Pu-240	1.23E+00
Pu-239	5.38E+00
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	12.9	0.0	0.0	2.2	2.6	17.7
Totals	12.9	0.0	0.0	2.2	2.6	17.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	12.9	0.0	0.0	2.2	2.6	17.7
Totals	12.9	0.0	0.0	2.2	2.6	17.7

As-Generated Form: Stored: 12.9 Projected: 4.8 Total: 17.7

Final Waste Form: Stored: 12.9 Projected: 4.8 Total: 17.7

WASTE STREAM DESCRIPTION	This waste form includes graphite chunks and coarse graphite .
WASTE STREAM SOURCE	Item Description Code 300, Graphite Molds During the casting of plutonium in production foundry operations, the plutonium casting operations in Building 707 generated used graphite molds. The working surfaces were coated with calcium fluoride prior to using the mold. After the plutonium casting was removed from the mold, the molds were collected in a drum. Drums that contained recoverable amounts of plutonium were stored for subsequent scarfing of molds.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W117	Handling:	CH	NMVP #:	RF115	Stream Name:	Coarse Graphite/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Graphite

Inventory Date: 9/5/94

Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

RF 115

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.93E+01
Pu-240	1.23E+00
Pu-239	5.38E+00
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	4.2	0.0	0.0	0.7	0.9	5.8
Totals	4.2	0.0	0.0	0.7	0.9	5.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 4.2 Projected: 1.7 Total: 5.8

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste form includes graphite chunks and coarse graphite .
WASTE STREAM SOURCE	Item Description Code 301, Classified Graphite Shapes During the casting of plutonium in production foundry operations, classified molds are segregated from non-classified molds. Prior to 1984, the classified molds were destroyed in Building 776.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W101	Handling:	CH	NMVP #:	N/A	Stream Name:	Combustibles/TRU	Inventory Date:	9/5/94
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	4.86E+00
Pu-240	2.04E-01
Pu-239	8.90E-01
Am-241	9.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.4	0.0	0.0	0.0	0.0	0.4
metal box / 4x4x7	3.2	0.0	0.0	0.0	0.0	3.2
Totals	3.6	0.0	0.0	0.0	0.0	3.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	0.0
Standard Waste Box	0.0	0.0	0.0	0.0	0.0	0.0
Totals	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated Form: Stored: 3.6 Projected: 0.0 Total: 3.6

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills.
WASTE STREAM SOURCE	IDC 302 includes Benelex and Plexiglas. Benelex is a very dense organic material used for radiation shielding around gloveboxes and tanks. In some cases, Benelex is laminated with lead. However, none of the containers identified here have lead lamination. The Benelex used by RFETS is usually 2 inches thick although occasionally two 2-inch thick pieces were bolted toghether to increase shield thickness. Plexiglas is a trade name used to describe a family of polycarbonate materials used for radiation shielding in glovebox windows and equipment enclosures. Plexiglas glovebox windows are generally 2- to 4-inches thick and can be in various sizes and shapes. Benelex and Plexiglas in the inventory were generated in Buildings 371, 707, 771, and 776. The IDC was generated as waste during replacement of shielding or stripout of unnecessary shielding during the installation of new gloveboxes or tanks.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W117	Handling:	CH	NMVP #:	N/A	Stream Name:	Coarse Graphite/TRU	Inventory Date:	9/5/94
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Graphite	Waste Matrix Code:	

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	17.3
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	318.3	51.9	381.9
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.93E+01
Pu-240	1.23E+00
Pu-239	5.38E+00
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	0.1	0.1	0.4
Totals	0.2	0.0	0.0	0.1	0.1	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.2 Total: 0.4

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste form includes graphite chunks and coarse graphite .
WASTE STREAM SOURCE	Item Description Code 303, Scarfed Graphite Chunks After the casting of plutonium in production foundry operations, IDCs 300 and 301 were mechanically cleaned using a hand-held rotary-type sanding tool to grind off contamination in buildings 371, 707, 771, and 777, generating Scarfed Graphite Chunks. The mechanical cleaning (scarfing) of the mold surface removes most of the mold coating and plutonium contamination. This process generated IDC 303 and 310, as well as, IDC 312.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W117	Handling:	CH	NMVP #:	RF115	Stream Name:	Coarse Graphite/TRU	Inventory Date:	9/5/94
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Graphite	Waste Matrix Code:	

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	17.3
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	250.7	155.7	345.7
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

RF 115

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.93E+01
Pu-240	1.23E+00
Pu-239	5.38E+00
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	18.7	23.3	42.6
Totals	0.6	0.0	0.0	18.7	23.3	42.6

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 0.6 Projected: 42.0 Total: 42.6

WASTE STREAM DESCRIPTION	This waste form includes graphite chunks and coarse graphite .
WASTE STREAM SOURCE	Item Description Code 312, Graphite Coarse After the casting of plutonium in production foundry operations, IDC 300 was mechanically cleaned in Buildings 371, 707, 771, and 777, generating coarse graphite. Material generated in this process were chunk pieces of graphite produced as a by-product of IDC 310 generation.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	IDC 310, 312, 303.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W111	Handling:	CH	NMVP #:	RF 117	Stream Name:	Heavy Metal (non-SS)/TRU	Inventory Date:	9/5/94
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5119

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	60.5	0.0	168.7
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	141.0	29.0	393.3
Other Inorganic Material:	14.0	2.9	39.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

RF 117

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	5.28E+01
Pu-240	2.22E+00
Pu-239	9.69E+00
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	4.6	0.0	0.0	1.7	2.1	8.4
Totals	4.6	0.0	0.0	1.7	2.1	8.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.6	0.0	0.0	1.7	2.1	8.4
Totals	4.6	0.0	0.0	1.7	2.1	8.4

As-Generated Form: Stored: 4.6 Projected: 3.7 Total: 8.3

Final Waste Form: Stored: 4.6 Projected: 3.7 Total: 8.3

WASTE STREAM DESCRIPTION	Typically, these scrap metals consist of crucibles, funnels, rods and fixturing from several processes and production operations. Tantalum, tungsten and platinum are examples of scrap metals at the RFP.
WASTE STREAM SOURCE	Heavy metals have been produced as by-products of Rocky Flats operations in Buildings 371, 707, 771, 776, 777, 779, and 865; they are identified by IDC 320. The IDC 320 heavy nonspecial source metal was generated in various locations throughout the Rocky Flats. This IDC includes nonstainless-steel metals that are heavier than iron. Examples of this waste include crucibles, funnels, rods, and process fixtures. These items are made primarily from tantalum, tungsten, and platinum, but some parts could have been manufactured or contaminated with lead if the accumulation start date was prior to 1987.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W101	Handling:	CH	NMVP #:	None	Stream Name:	Combustibles/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Combustible

Inventory Date: 9/5/95

Waste Matrix Code: S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

None

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	4.86E+00
Pu-240	2.04E-01
Pu-239	8.90E-01
Am-241	9.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	1.0	0.0	0.0	0.0	0.0	1.0
metal box / 4x4x7	3.2	0.0	0.0	0.0	0.0	3.2
Totals	4.2	0.0	0.0	0.0	0.0	4.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 4.2 Projected: 0.0 Total: 4.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills.
WASTE STREAM SOURCE	IDC 330 is Dry Combustibles. This IDC is dry combustibles such as cloth, paper, and wood. This IDC changes to 821, 831, 851, or 861 at the point of assay, depending on radiological content. Containers of IDC 330 currently in inventory were generated in all buildings handling fissile material. This stream is generated from Facility Operation, Analytical Laboratories, R&D Laboratories, and Spill Cleanups. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt. %, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W120	Handling:	CH	NMVP #:	RF 119	Stream Name:	Filters & media/TRU	Inventory Date:	9/5/94
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Filter	Waste Matrix Code:	

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	8.3	0.6	56.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	9.8	0.7	66.1
Vitrified:	0.0	0.0	0.0
Cellulosics:	63.4	4.8	429.5
Rubber:	2.8	0.2	19.1
Plastics:	3.8	0.3	25.6
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

RF 119

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	3.32E+01
Pu-240	1.40E+00
Pu-239	6.10E+00
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	19.3	3.3	0.4	22.3	27.6	73.0
Totals	19.3	3.3	0.4	22.3	27.6	73.0

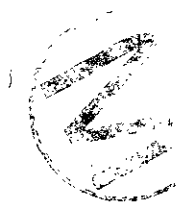
Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	19.3	3.3	0.4	22.3	27.6	73.0
Totals	19.3	3.3	0.4	22.3	27.6	73.0

As-Generated Form: Stored: 19.3 Projected: 53.7 Total: 73.0

Final Waste Form: Stored: 19.3 Projected: 53.7 Total: 73.0

WASTE STREAM DESCRIPTION	This material consists of pieces ranging in size from 20" x 20" x 4" to 2" x 2" square pieces. These pieces are composed of glass fibers with a small percentage of asbestos. An organic binder, elastomeric adhesive, or polyurethane sealant was used during construction. The pieces also contain corrugated aluminum foil. The newer media consist of glass and aromatic polyamide fibers (Nomex) and luminum alloy metal coated wiht a thermoset vinyl or expoxy. Various sealants could be present. The material is not homogenous because of the different materials used and the different manufacturers of the filters. IDC 338 could also contain R-4 filters pads from the dicesium hexachloraplutonate (DCHP) process. The pads are about 12-inch diameter cloth filters.
WASTE STREAM SOURCE	The material in this IDC is High Efficiency Particulate Air (HEPA) filters used in ventilation systems at Rocky Flats. HEPA filters have been and are used in all of the buildings which contain plutonium processing activities. HEPA filters are used on gloveboxes and in large filter plenums that filter the room air. Used filters were removed from their position in the ventilation system and packaged for further processing. The filters used on gloveboxes (nominal 8" x 8" x 5") were identified as IDC 335 if they were not acid contaminated. RE: Section 8.2.11, RFETS deosn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation, Maintenance, Analytical Laboratories, R&D Laboratories, and D&D.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Projections in section 8.2.15.1.13 include generation of IDC-335 and IDC-342 to be processed to IDC-335.



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W101	Handling: CH	NMVP #: None	Stream Name: Combustibles/TRU		Inventory Date: 9/5/94
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Combustible		Waste Matrix Code: S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

None

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	4.86E+00
Pu-240	2.04E-01
Pu-239	8.90E-01
Am-241	9.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	1.0	0.0	0.0	0.0	0.0	1.0
Totals	1.0	0.0	0.0	0.0	0.0	1.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 1.0 Projected: 0.0 Total: 1.0

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills.
WASTE STREAM SOURCE	Wet combustibles are paper, cloth, etc., which contain a discernible amount of moisture and must be drained or wrung out prior to packaging to prevent an accumulation of free liquid. This IDC changes to 822, 832, 852, or 862 at the point of assay. This stream is generated from Facility Operation, Analytical Laboratories, R&D Laboratories, and Spill Cleanups. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt. %, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W101	Handling: CH	NMVP #: None	Stream Name: Combustibles/TRU		Inventory Date: 9/5/94
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Combustible		Waste Matrix Code: S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

None

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	4.86E+00
Pu-240	2.04E-01
Pu-239	8.90E-01
Am-241	9.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes						
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	1.0	0.0	0.0	0.0	0.0	1.0
Totals	1.0	0.0	0.0	0.0	0.0	1.0

Final Waste Form Volumes						
Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 1.0 Projected: 0.0 Total: 1.0

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills.
WASTE STREAM SOURCE	IDC 337 represents PVC sheeting, poly bottles, supplied-air suits, polyethylene, and other plastics. IDC 337 changes to 825, 833, 853, or 863 at the point of assay. This stream is generated from Facility Operation, Analytical Laboratories, R&D Laboratories, and Spill Cleanups. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt. %, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W120	Handling: CH	NMVP #: RF 119	Stream Name: Filters & media/TRU			Inventory Date:	9/5/94
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Filter			Waste Matrix Code:	

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	47.0	10.1	122.5
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	78.1	33.4	236.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

RF 119

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	3.32E+01
Pu-240	1.40E+00
Pu-239	6.10E+00
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.3	0.1	2.4	3.0	7.9
Totals	2.1	0.3	0.1	2.4	3.0	7.9

As-Generated Form:	Stored:	2.1	Projected:	0.0	Total:	2.1	Final Waste Form:	Stored:	2.1	Projected:	5.8	Total:	7.9

WASTE STREAM DESCRIPTION	This material consists of pieces ranging in size from 20" x 20" x 4" to 2" x 2" square pieces. These pieces are composed of glass fibers with a small percentage of asbestos. An organic binder, elastomeric adhesive, or polyurethane sealant was used during construction. The pieces also contain corrugated aluminum foil. The newer media consist of glass and aromatic polyamide fibers (Nomex) and luminum alloy metal coated wiht a thermoset vinyl or expoxy. Various sealants could be present. The material is not homogenous because of the different materials used and the different manufacturers of the filters. IDC 338 could also contain R-4 filters pads from the diceslum hexachlorsplutonate (DCHP) process. The pads are about 12-inch diameter cloth filters.
WASTE STREAM SOURCE	The material in this IDC is either the filter media portion of HEPA filters or surface-water filters. HEPA filters are used on gloveboxes and in large filter plenums. Sock filters were used to prefilter operable unit 2 (OU-2) surface water prior to activated carbon treatment. Used HEPA filters were processed to segregate those portions with high plutonium content and those with low content. The wood frames were separated from the media and almost always disposed of as waste by packing in drums that were assigned IDC 330. the filter media pieces were identified as IDC 338 if they were high in radioactivity and packaged and stored for future recovery of the plutonium. If the pieces of media were low in radioactivity, they were identified as IDC 376 and packaged for shipment as waste. This filter media can be free of acid contamination or can be heavily contaminated with acid residue. It can also be moist or dry. It could have originated from the production Building 707 and could be contaminated with used solvents such as trichloroethane, carbon tetrachloride, and Freon. IDC 338 was meant to be used as a residue IDC and not as a waste IDC. Because sorting between IDCs was not accurate, some of the IDC 338 backlog containers are below the economic discard limit (EDL) and are therefore not residue. RE: Section 6.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation, Maintenance, Analytical Laboratories, R&D Laboratories, and D&D.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W107	Handling:	CH	NMVP #:	RF 121	Stream Name:	Soil & Cleanup Debris/TRU	Inventory Date:	9/5/94
Local ID:	IDC 374	Type:	TRU	Generator Site:	RF	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S4200

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	273.1	208.9	628.4
Vitrified:	0.0	0.0	0.0
Cellulosics:	12.0	12.0	12.0
Rubber:	0.0	0.0	0.0
Plastics:	12.0	12.0	12.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	64.9	9.6	628.4
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

RF 121

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	3.30E+00
Pu-240	1.39E-01
Pu-239	6.06E-01
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

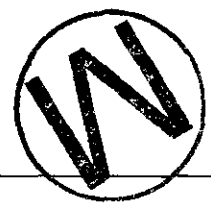
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 0.6 Projected: 0.0 Total: 0.6



WASTE STREAM DESCRIPTION	This waste stream is construction rubble generated during decontamination and decommissioning activities. This waste consists of blacktop/concrete/dirt/sand. The waste is generated from construction/demolition within the plutonium process buildings. The waste is usually packed in 55-gal. drums with multiple bag liners, a fiberboard liner, and a rigid polyethylene liner. Also, the waste can be packaged in DOT 7A, Type A metal boxes which are lined with a fiberboard and PVC liner. This waste is identified by IDC 374. Inventory data include mixed residues in this IDC. IDC 374-Construction rubble generated during decontamination and decommissioning operations. Metals are considered to be potentially present in the rubble from demolition and cleanup activities. Solvents are potentially present from the materials used during decontamination.
WASTE STREAM SOURCE	Soil and cleanup-debris (IDC 374) were generated during cleanup and construction activities around Rocky Flats. In most cases, construction or demolition activities generated rubble consisting of blacktop, concrete, dirt, sand , and rock. The rubble was packaged in plywood boxes with a fiberboard liner and a polyvinyl chloride (PVC) bag liner or in 55-gallon, DOT Type 7A drups. The waste was generated on a nonroutine basis. Information describing spendid activities generating soil and debris were often unavailable.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	A-Process knowledge based upon general knowledge of waste type or source (e.g., there is some probability of a waste constituent being present or absent). Bounding analytical data have not been compiled in a form that is compatible with this report. This effort is in progress and the results will be incorporated when the effort is complete. No information available regarding uncertainty.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W121	Handling:	CH	NMVP #:	RF 119	Stream Name:	Cemented filters/TRU	Inventory Date:	9/5/94
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Filter	Waste Matrix Code:	

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	63.3	27.1	191.6
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	78.1	33.4	236.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

RF 119

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	3.60E+01
Pu-240	1.51E+00
Pu-239	6.61E+00
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	8.9	0.7	0.1	5.2	6.5	21.5
Totals	8.9	0.7	0.1	5.2	6.5	21.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	8.9	1.5	0.1	5.2	6.5	22.2
Totals	8.9	1.5	0.1	5.2	6.5	22.2

As-Generated Form: Stored: 8.9 Projected: 12.5 Total: 21.4

Final Waste Form: Stored: 8.9 Projected: 12.5 Total: 21.4

WASTE STREAM DESCRIPTION	Processed filter media, IDC 376, is material which has been treated using Portland cement to absorb moisture and neutralize acid contamination. Filter waste is packaged in 55-gallon drums and metal standard waste boxes. Inventory data include residues within the same IDCs because they are regulated as waste.
WASTE STREAM SOURCE	The material in this IDC is the filter media portion of acid-contaminated glovebox or plenum HEPA filters or Ful-Flo filters with free liquids. Processing was performed in the Site Reduction Vaults in Building 776. Used HEPA filters were processed to separate any portions containing high plutonium content from portions with low content. The wood frames were separated from the media and usually disposed of as waste by packing in a drum that was assigned IDC 330. The filter media pieces were identified as IDC 339 if they were high in radioactivity and packaged and stored for future recovery of the plutonium. If the pieces of media were low in radioactivity, they were identified as IDC 376 and packaged for shipment as waste. The media were placed in crates, Portland cement was added, then crates were sealed. Some IDC 376 material could be the remaining material after the IDC 338 media were processed to recover the plutonium. Ful-Flo filters which were used to filter corrosive gas were also processed to separate any portions containing high plutonium content from portions with low plutonium content. Pieces of media with low activity were identified as IDC 376 and packaged for shipment as waste. The media were placed in approximately 10-gallon plastic bags and Portland cement was added. The bags were then sealed and placed in a drum. IDC 376 filter media in this backlog population was derived from the processing of HEPA filters from Buildings 371, 771, 776, and 770. The HEPA filters could have orginally been assigned ICDs 335 342, 490, 491 or 492. Filter media from Building 771 could have been used to filter nitric acid vapors.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W122	Handling:	CH	NMVP #:	N/A	Stream Name:	Organic Resins/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Organics

Inventory Date: 9/5/94

Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Materials Production/Recovery Effluents

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	9.97E+00
Pu-240	4.19E-01
Pu-239	1.83E+00
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

	As-Generated Waste Form Volumes						Final Waste Form Volumes						
Container	Stored	Pre-97	98-02	03-12	13-22	Totals	Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.4	0.0	0.0	0.0	0.0	0.4							
Totals	0.4	0.0	0.0	0.0	0.0	0.4							

As-Generated Form:	Stored:	0.4	Projected:	0.0	Total:	0.4	Final Waste Form:	Stored:	0.0	Projected:	0.0	Total:	0.0

WASTE STREAM DESCRIPTION	It consists of unleached resin (IDC 430) and leached resin (IDC 431).
WASTE STREAM SOURCE	The ion-exchange resins were important to the plutonium purification processes at RFETS. Plutonium-contaminated materials were often dissolved in nitric acid and processed through ion exchange. The ion-exchange resin contained in an ion-exchange column was charged with highly concentrated nitric acids by trickling this solution through the columns. A plutonium-contaminated solution was then trickled through the column. The charged resin beads attracted the plutonium from the contaminated solution to the surface of the resin bead. The loaded resin beads were then leached by trickling another nitric acid solution through the tube. This final nitric acid solution drew the plutonium from the beads into solution and allowed for purification of the plutonium. The resin was periodically replaced when this process had depleted the efficiency of the resin. The ion exchange resins in use at Rocky Flats were generally small plastic (polystyrene) beads in which long-chain organic compounds with an activated group are imbedded (such as Dowex 1 x 2). Unleached resin IDC 430, was produced when the resin ion exchange columns was replaced. Though this IDC is titled "unleached" resin, the generators of resins confirm that all resins were rinsed with at least, weak acid before the resins were removed from the columns. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt% but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W122	Handling:	CH	NMVP #:	N/A	Stream Name:	Organic Resins/TRU	Inventory Date:	9/5/94
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Organics	Waste Matrix Code:	

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	9.97E+00
Pu-240	4.19E-01
Pu-239	1.83E+00
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	It consists of unleached resin (IDC 430) and leached resin (IDC 431).
WASTE STREAM SOURCE	The ion-exchange resins were important to the plutonium purification processes at RFETS. Plutonium-contaminated materials were often dissolved in nitric acid and processed through ion exchange. The ion-exchange resin contained in an ion-exchange column was charged with highly concentrated nitric acids by trickling this solution through the columns. A plutonium-contaminated solution was then trickled through the column. The charged resin beads attracted the plutonium from the contaminated solution to the surface of the resin bead. The loaded resin beads were then leached by trickling another nitric acid solution through the tube. This final nitric acid solution drew the plutonium from the beads into solution and allowed for purification of the plutonium. The resin was periodically replaced when this process had depleted the efficiency of the resin. The ion exchange resins in use at Rocky Flats were generally small plastic (polystyrene) beads in which long-chain organic compounds with an activated group are imbedded (such as Dowex 1 x 2). ILeached resin IDC 431, was produced when the resin ion exchange columns were replaced. The resin was leached (rinsed) with water before the resin was removed from the columns. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1wt%, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W115	Handling:	CH	NMVP #:	N/A	Stream Name:	Insulation/TRU	Inventory Date:	9/5/94
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-metal	Waste Matrix Code:	S5129

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	91.7	1.9	353.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	4.8	0.0	9.6
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.54E+01
Pu-240	1.07E+00
Pu-239	4.67E+00
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	7.7	0.7	0.9	2.7	2.9	14.9
Totals	7.7	0.7	0.9	2.7	2.9	14.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	7.7	0.7	1.1	2.7	2.9	15.1
Totals	7.7	0.7	1.1	2.7	2.9	15.1

As-Generated Form: Stored: 7.7 Projected: 7.3 Total: 15.0

Final Waste Form: Stored: 7.7 Projected: 7.3 Total: 15.0

WASTE STREAM DESCRIPTION	This waste stream is contaminated insulation.
WASTE STREAM SOURCE	Item Description Code 438 Maintenance, repair, and strip-out operations in Buildings 371, 374, 444, 559, 666, 707, 771, 774, 776, 777, 779, 865, 881, and 883 produced waste insulation. Insulation waste is generated by repalcement of furnace heating elements, construction, maintenance, and demolition activities within the Protected Area at Rocky Flats. During these activities, insulation material is removed from furnaces, boilers, piping, ceilings and walls and heating and cooling systems.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W113	Handling:	CH	NMVP #:	RF 118	Stream Name:	Glass/TRU	Inventory Date:	
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-metal	Waste Matrix Code:	S5122

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	2.0	0.0	5.3
Other Inorganic Material:	136.8	16.8	352.5
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	1.2	0.0	3.1
Plastics:	30.3	3.7	78.1
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	150.0		
Packaging Material Plastic:	10.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

RF 118

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	9.30E+00
Pu-240	3.91E-01
Pu-239	1.71E+00
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	15.0	0.7	0.0	0.2	0.2	16.0
metal box / 4x4x7	9.4	0.0	0.0	0.0	0.0	9.4
Standard Waste Box	0.0	1.5	0.0	0.2	0.2	1.9
Totals	24.4	2.2	0.0	0.3	0.4	27.4

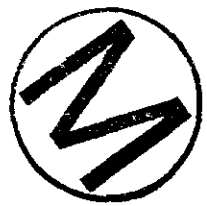
Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.7	0.7	0.0	0.2	0.2	4.8
Standard Waste Box	1.9	20.4	0.0	0.2	0.2	22.7
Totals	5.6	21.1	0.0	0.3	0.4	27.5

As-Generated Form: Stored: 24.4 Projected: 2.9 Total: 27.4

Final Waste Form: Stored: 5.6 Projected: 21.8 Total: 27.5

WASTE STREAM DESCRIPTION	This waste stream is made up of glass from analytical labs, recovery processes, ceramics, and glovebox windows.
WASTE STREAM SOURCE	IDC 440 includes glass waste from analytical laboratories and recovery processes, standard light bulbs generated inside the PA, and ceramic materials. Glass waste assigned IDC 440 was generated in Buildings 123,371, 444, 559, 707, 771, 776, 777, 889. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1wt%, but has no supporting data. This waste stream is generated from Facility Operations, Analytical Laboratories, and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Assuming 67% of projected generation will be in 55-gallon drums based on current container inventory.



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W113	Handling:	CH	NMVP #:	RF 118	Stream Name:	Glass
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal

Inventory Date: 10/20/94

Waste Matrix Code: S5122

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

RF 118

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	9.30E+00
Pu-240	3.91E-01
Pu-239	1.71E+00
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	4.0	0.4	0.0	0.1	0.1	4.6
Totals	4.0	0.4	0.0	0.1	0.1	4.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 4.0 Projected: 0.6 Total: 4.6

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste stream is made up of glass from analytical labs, recovery processes, ceramics, and glovebox windows.
WASTE STREAM SOURCE	Raschig Rings currently in WEMS assigned IDC 442 were generated in Buildings 771, 776, and 777. Prior to being replaced, the tanks were drained and the rings were leached with dilute nitric acid or water. The rings generated in Building 771 are from the production processes and Tanks D80-85, d0-360, D-361, D-451, D-454, D-467, D-750, D-706, D-922, D-973, D-974, D-980, D-1008, D-1013, D-1022, and D-1081. Rings generated in Building 776 are from the Size Reduction Process and Tanks SR 3, 4, and 5 and as unused rings. Rings generated in Building 777 were generated by the Carbon Tetrachloride System in Tanks 1103, 1104, and 1106, Room 131, and by the Trichloroethane Collection and Filter System in Tanks T-1 and T-2, Room 430. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1wt%, but has no supporting data This stream is generated from Facility Operations, Analytical Laboratories, and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W113	Handling:	CH	NMVP #:	RF 118	Stream Name:	Glass/TRU	Inventory Date:	9/5/94
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5122

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	14.7	0.0	24.3
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	250.8	19.1	415.4
Vitrified:	0.0	0.0	0.0
Cellulosics:	7.6	0.0	12.6
Rubber:	0.0	0.0	0.0
Plastics:	8.7	0.6	14.5
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	153.7		
Packaging Material Plastic:	31.8		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

RF 118

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	9.30E+00
Pu-240	3.91E-01
Pu-239	1.71E+00
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	28.1	1.6	0.0	0.4	0.5	30.6
metal box / 4x4x7	15.9	0.0	0.0	0.0	0.0	15.9
Totals	43.9	1.6	0.0	0.4	0.5	46.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	28.1	1.6	0.0	0.4	0.5	30.6
Standard Waste Box	0.0	3.0	0.0	7.9	9.9	20.8
Totals	28.1	4.6	0.0	8.3	10.4	51.4

As-Generated Form: Stored: 43.9 Projected: 2.5 Total: 46.4

Final Waste Form: Stored: 28.1 Projected: 23.3 Total: 51.4

WASTE STREAM DESCRIPTION	This waste stream is made up of glass from analytical labs, recovery processes, ceramics, and glovebox windows.
WASTE STREAM SOURCE	Raschig Rings currently in WEMS assigned IDC 442 were generated in Buildings 771, 776, and 777. Prior to being replaced, the tanks were drained and the rings were leached with dilute nitric acid or water. The rings generated in Building 771 are from the production processes and Tanks D80-85, d0-360, D-361, D-451, D-454, D-467, D-750, D-706, D-922, D-973, D-974, D-980, D-1008, D-1013, D-1022, and D-1081. Rings generated in Building 776 are from the Size Reduction Process and Tanks SR 3, 4, and 5 and as unused rings. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1wt%, but has no supporting data This stream is generated from Facility Operations, Analytical Laboratories, and R&D Laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W109	Handling:	CH	NMVP #:	N/A	Stream Name:	METAL/TRU	Inventory Date:	9/5/94
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	6.76E+00
Pu-240	2.84E-01
Pu-239	1.24E+00
Am-241	9.54E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	0.0
Totals	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	IDCs 480 and 481. This waste includes items such as gloveboxes and machinery, and empty containers. Items that are difficult to reduce to a size that would fit in a 55-gal. drum are placed in DOT 7A, Type A metal boxes. These drums are lined with a rigid polyethylene liner, fiberboard liner and several bag liners. The boxes are lined with a fiberboard and PVC liner. This waste also includes final form waste of classified metal (IDC Nos. 484, 485,486, 489) after processing to declassified form. Inventory data include residues in IDCs 480 and 481.
WASTE STREAM SOURCE	IDC 479 is assigned to empty reusable cans generated in Buildings 559, 707, and 771 (containers currently in WEMS from these buildings). Stainless-steel cans were used to handle plutonium-contaminated material. Primary generation was through the use of these cans to manually transfer materials between gloveboxes. Cans that were introduced to the process were typically recycled and reused. There were no generation process descriptions in WSRIC for this waste in Buildings 559, 707, and 771. In Building 371, the Dicesium Hexachloroplutonate (DCHP) Process often used the cans for transferring materials into the stacker.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W109	Handling:	CH	NMVP #:	RF 117	Stream Name:	METAL/TRU	Inventory Date:	9/5/94
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	78.4	0.8	238.9
Aluminum-base Metal/Alloys:	9.9	0.1	30.1
Other Metals/Alloys:	3.7	0.0	11.4
Other Inorganic Material:	6.5	0.0	20.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	1.2	0.0	3.7
Rubber:	1.4	0.0	4.4
Plastics:	10.4	0.1	31.6
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	142.8		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

RF 117

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	6.76E+00
Pu-240	2.84E-01
Pu-239	1.24E+00
Am-241	9.54E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	64.1	16.1	7.6	34.9	16.5	139.2
Drum / 85-gallon	0.3	0.0	0.0	0.0	0.0	0.3
metal box / 4x4x7	44.4	0.0	0.0	0.0	0.0	44.4
plywood box / 4x4x7	3.2	0.0	0.0	0.0	0.0	3.2
Standard Waste Box /	13.2	16.1	7.7	35.0	16.8	88.8
Totals	125.2	32.2	15.2	70.0	33.2	275.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	64.1	16.1	7.6	34.9	16.5	139.2
Standard Waste Box	13.2	72.8	7.7	35.0	16.8	145.5
Totals	77.3	88.9	15.2	70.0	33.2	284.7

As-Generated Form: Stored: 125.2 Projected: 150.7 Total: 275.8

Final Waste Form: Stored: 77.3 Projected: 207.4 Total: 284.7

WASTE STREAM DESCRIPTION	IDCs 480 and 481. This waste includes items such as gloveboxes and machinery, and empty containers. Items that are difficult to reduce to a size that would fit in a 55-gal. drum are placed in DOT 7A, Type A metal boxes. These drums are lined with a rigid polyethylene liner, fiberboard liner and several bag liners. The boxes are lined with a fiberboard and PVC liner. This waste also includes final form waste of classified metal (IDC Nos. 484, 485,486, 489) after processing to declassified form. Inventory data include residues in IDCs 480 and 481.
WASTE STREAM SOURCE	IDC 480 is assigned to line- and nonline-generated light metals generated in Buildings 371, 374, 444, 559, 707, 771, 776, 777, 779, 865, and 991 (containers currently in WEMS these buildings). Light metals include aluminum, copper, iron, brass, bronze, galvanized metal, stainless steel, carbon steel, and other metal alloys contained in waste mechanical and electrical parts, tools, containers, scrap metals, piping, wire, cable, gauges, valves, foil, planchets, and a variety of other metal items. The maintenance operation was inextricably linked with the generation of the material that created this IDC. The maintenance-generated materials were generated throughout the entire facility. Backlog containers of this IDC may contain a matrix of all light metals listed above.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W109	Handling:	CH	NMVP #:	RF 117	Stream Name:	METAL/TRU	Inventory Date:	9/5/94
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	160.4	1.7	488.7
Aluminum-base Metal/Alloys:	20.2	0.2	61.6
Other Metals/Alloys:	7.6	0.0	23.3
Other Inorganic Material:	13.4	0.1	40.9
Vitrified:	0.0	0.0	0.0
Cellulosics:	2.5	0.0	7.6
Rubber:	2.9	0.0	8.9
Plastics:	21.2	0.2	64.7
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

RF 117

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	6.76E+00
Pu-240	2.84E-01
Pu-239	1.24E+00
Am-241	9.54E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

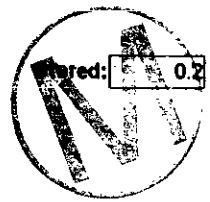
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2



WASTE STREAM DESCRIPTION	IDCs 480 and 481. This waste includes items such as gloveboxes and machinery, and empty containers. Items that are difficult to reduce to a size that would fit in a 55-gal. drum are placed in DOT 7A, Type A metal boxes. These drums are lined with a rigid polyethylene liner, fiberboard liner and several bag liners. The boxes are lined with a fiberboard and PVC liner. This waste also includes final form waste of classified metal (IDC Nos. 484, 485,486, 489) after processing to declassified form. Inventory data include residues in IDCs 480 and 481.
WASTE STREAM SOURCE	IDC 481 was assigned to light, nonspecial source metals. This material consisted primarily of stainless-steel and aluminum equipment used throughout the plant; this equipment was rinsed to remove plutonium contamination. This IDC is no longer active and has been replaced by IDC 480. The three containers in inventory were generated in Building 771, 776, and 777 in November 1984.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W109	Handling:	CH	NMVP #:	N/A	Stream Name:	METAL/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal

Inventory Date: 9/5/94

Waste Matrix Code: S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	6.76E+00
Pu-240	2.84E-01
Pu-239	1.24E+00
Am-241	9.54E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	5.2	0.0	0.0	0.0	0.0	5.2
Totals	5.2	0.0	0.0	0.0	0.0	5.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 5.2 Projected: 0.0 Total: 5.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	IDCs 480 and 481. This waste includes items such as gloveboxes and machinery, and empty containers. Items that are difficult to reduce to a size that would fit in a 55-gal. drum are placed in DOT 7A, Type A metal boxes. These drums are lined with a rigid polyethylene liner, fiberboard liner and several bag liners. The boxes are lined with a fiberboard and PVC liner. This waste also includes final form waste of classified metal (IDC Nos. 484, 485,486, 489) after processing to declassified form. Inventory data include residues in IDCs 480 and 481.
WASTE STREAM SOURCE	IDC 484 was assigned to classified non-nuclear material scrap metal shapes made primarily of stainless steel and aluminum. Prior to 1987, IDC 484 included beryllium shapes. These items were generated in Buildings 777 and 779 during disassembly operations of site-return units. Building 444, 707, and 883 generated rejected parts. Containers in inventory were generated from February 1983 to May 1991.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W109	Handling:	CH	NMVP #:	N/A	Stream Name:	METAL/TRU	Inventory Date:	9/5/94
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	6.76E+00
Pu-240	2.84E-01
Pu-239	1.24E+00
Am-241	9.54E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	0.0
Totals	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	IDCs 480 and 481. This waste includes items such as gloveboxes and machinery, and empty containers. Items that are difficult to reduce to a size that would fit in a 55-gal. drum are placed in DOT 7A, Type A metal boxes. These drums are lined with a rigid polyethylene liner, fiberboard liner and several bag liners. The boxes are lined with a fiberboard and PVC liner. This waste also includes final form waste of classified metal (IDC Nos. 484, 485,486, 489) after processing to declassified form. Inventory data include residues in IDCs 480 and 481.
WASTE STREAM SOURCE	IDC 485 was assigned to scrap D-38 classified metal shapes. Generation of this material occurred in Building 777 during disassembly of site-return units. Building 444 generated rejected parts. Containers in inventory were generated from July 1987 to August 1992.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W109	Handling:	CH	NMVP #:	N/A	Stream Name:	METAL/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal

Inventory Date: 9/5/94

Waste Matrix Code: S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	6.76E+00
Pu-240	2.84E-01
Pu-239	1.24E+00
Am-241	9.54E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	3.1	0.0	0.0	0.0	0.0	3.1
Totals	3.1	0.0	0.0	0.0	0.0	3.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 3.1 Projected: 0.0 Total: 3.1

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	IDCs 480 and 481. This waste includes items such as gloveboxes and machinery, and empty containers. Items that are difficult to reduce to a size that would fit in a 55-gal. drum are placed in DOT 7A, Type A metal boxes. These drums are lined with a rigid polyethylene liner, fiberboard liner and several bag liners. The boxes are lined with a fiberboard and PVC liner. This waste also includes final form waste of classified metal (IDC Nos. 484, 485,486, 489) after processing to declassified form. Inventory data include residues in IDCs 480 and 481.
WASTE STREAM SOURCE	IDC 486 was assigned to classified tooling for disposal. Generation of these tools ocurred in Buildings 707 and 777. The material consists primarily of obsolete tooling including pot chucks and inspection gauges. Containers in inventory were generated from October 1982 to December 1992.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W101	Handling:	CH	NMVP #:	None	Stream Name:	Combustibles/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Combustible

Inventory Date: 9/5/94

Waste Matrix Code: S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

None

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	4.86E+00
Pu-240	2.04E-01
Pu-239	8.90E-01
Am-241	9.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 2.1 Projected: 0.0 Total: 2.1

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills.
WASTE STREAM SOURCE	IDC 487 is classified plastic shapes used in handling and shipping. If TRU, shapes must be declassified prior to shipment. If LLW, IDC must be authorized by NTS prior to shipment. Classified Waste drums must be stenciled and handled according to Safeguards and Security procedures.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W109	Handling:	CH	NMVP #:	N/A	Stream Name:	METAL/TRU	Inventory Date:	9/5/94
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	6.76E+00
Pu-240	2.84E-01
Pu-239	1.24E+00
Am-241	9.54E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.8 Projected: 0.0 Total: 0.8

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	IDCs 480 and 481. This waste includes items such as gloveboxes and machinery, and empty containers. Items that are difficult to reduce to a size that would fit in a 55-gal. drum are placed in DOT 7A, Type A metal boxes. These drums are lined with a rigid polyethylene liner, fiberboard liner and several bag liners. The boxes are lined with a fiberboard and PVC liner. This waste also includes final form waste of classified metal (IDC Nos. 484, 485,486, 489) after processing to declassified form. Inventory data include residues in IDCs 480 and 481.
WASTE STREAM SOURCE	IDC 489 was assigned to scrap D-38 classified metal shapes generated in Buildings 777 and 779 during disassembly of site-return units. Containers in inventory were generated from February 1986 to September 1990.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W120	Handling: CH	NMVP #: RF 119	Stream Name: Filters & media/TRU		Inventory Date: 9/5/94
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Filter		Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	37.6	11.5	66.8
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	22.8	7.0	40.4
Vitrified:	0.0	0.0	0.0
Cellulosics:	13.9	0.0	27.8
Rubber:	0.2	0.0	0.3
Plastics:	0.3	0.0	0.6
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	146.7		
Packaging Material Plastic:	37.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

RF 119

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	3.32E+01
Pu-240	1.40E+00
Pu-239	6.10E+00
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	8.9	1.5	0.2	10.4	12.9	33.9
metal box / 4x4x7	9.5	0.0	0.0	0.0	0.0	9.5
Standard Waste Box /	13.2	0.0	0.0	0.0	0.0	13.2
Totals	31.7	1.5	0.2	10.4	12.9	56.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	8.9	1.5	0.2	10.4	12.9	33.9
Standard Waste Box	13.2	0.0	0.0	0.0	0.0	13.2
Totals	22.2	1.5	0.2	10.4	12.9	47.1

As-Generated Form:	Stored:	31.7	Projected:	25.0	Total:	56.6	Final Waste Form:	Stored:	22.2	Projected:	25.0	Total:	47.1

WASTE STREAM DESCRIPTION	This material consists of pieces ranging in size from 20" x 20" x 4" to 2" x 2" square pieces. These pieces are composed of glass fibers with a small percentage of asbestos. An organic binder, elastomeric adhesive, or polyurethane sealant was used during construction. The pieces also contain corrugated aluminum foil. The newer media consist of glass and aromatic polyamide fibers (Nomex) and luminum alloy metal coated wiht a thermoset vinyl or expoxy. Various sealants could be present. The material is not homogenous because of the different materials used and the different manufacturers of the filters. IDC 338 could also contain R-4 filters pads from the dicesium hexachloraplutonate (DCHP) process. The pads are about 12-inch diameter cloth filters.
WASTE STREAM SOURCE	The material in this IDC is HEPA filters in the ventilation systems at Rocky Flats. HEPA filters have been and are used in all of the buildings which contain plutonium processing activities. HEPA filters are used on gloveboxes and in large plenums that filter the room and glovebox air. Used filters were removed from their position in the ventilation system and packaged for further processing. The larger-sized filters used in filters plenums were identified and packaged as IDC 492 if acid contaminated. IDC 492 HEPA filters (24" x 24"), acid contaminated, are large HEPA filters (nominal 24" x 24" x 5" or 24" x 24" x 12") that were used in filter plenum racks. These filters consist of filter media contained within a wooden or metal frame. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation, Maintenance, Analytical Laboratories, R&D Laboratories, and D&D.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W120 | Handling: CH | NMVP #: RF 119 | Stream Name: Filters & media/TRU | Inventory Date: 9/5/94
Local ID: None | Type: TRU | Generator Site: RF | Final Waste Form: Filter | Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	19.0	0.0	38.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	11.5	0.0	23.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	47.6	0.0	99.1
Rubber:	0.6	0.0	1.1
Plastics:	1.0	0.0	2.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	187.1		
Packaging Material Plastic:	2.2		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

RF 119

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	3.32E+01
Pu-240	1.40E+00
Pu-239	6.10E+00
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	16.0	0.0	0.0	0.0	0.0	16.0
Totals	16.0	0.0	0.0	0.0	0.0	16.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	16.0	0.0	0.0	0.0	0.0	16.0
Totals	16.0	0.0	0.0	0.0	0.0	16.0

As-Generated Form: Stored: 16.0 Projected: 0.0 Total: 16.0

Final Waste Form: Stored: 16.0 Projected: 0.0 Total: 16.0

WASTE STREAM DESCRIPTION	This material consists of pieces ranging in size from 20" x 20" x 4" to 2" x 2" square pieces. These pieces are composed of glass fibers with a small percentage of asbestos. An organic binder, elastomeric adhesive, or polyurethane sealant was used during construction. The pieces also contain corrugated aluminum foil. The newer media consist of glass and aromatic polyamide fibers (Nomex) and luminum alloy metal coated wiht a thermoset vinyl or expoxy. Various sealants could be present. The material is not homogenous because of the different materials used and the different manufacturers of the filters. IDC 338 could also contain R-4 filters pads from the dicesium hexachloraplutonate (DCHP) process. The pads are about 12-inch diameter cloth filters.
WASTE STREAM SOURCE	The material in this IDC is a variety of plenum prefilters used in the ventilation systems at Rocky Flats. Plenum prefilters have been and are used in all of the buildings that contain plutonium processing activities. These prefilters are used in large plenums that filter the room and glovebox air. Used prefilters were removed from their position in the ventilation system and packaged for furtehr processing. IDC 491 plenum prefilters range from furnace-type filters to pleated fiberglass filters and can be as large as 24" x 24" x 12". The filter medium consists of fiberglass packing or paper which may be more or less dense, depending on filtering needs. Wire mesh can be used to hold the media in place. The frame material for these prefilters is cardboard. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data. This waste form is generated from Facility/Equipment Operation, Maintenance, Analytical Laboratories, R&D Laboratories, and D&D.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W118	Handling:	CH	NMVP #:	N/A	Stream Name:	Miscellaneous Liquids/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics

Inventory Date: 9/5/94

Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.00	0.0	0.0	0.0	0.0	0.00
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.00 Projected: 0.0 Total: 0.00

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	As result of the shutdown of plutonium operations at RFP in November, 1989, several hundred plastic bottles and several tanks of process liquids remained in storage.
WASTE STREAM SOURCE	IDC 508 is hydrochloric acid (HCl) containing plutonium generated by various process operations and glovebox-cleaning operations uing HCl. Process operations and glovebox-cleaning operations were definec based on preliminary analytical results. IDC 508 was generated in Cation Exchange in Building 771 from washing residual impurities from the resin with dilute nitric acid. Chemical Technology in Building 771 generated miscellaneous chloride acid solutions from Batch Chloride Dissolution. This process dissolved plutonium oxide with hydrochloric acid. Dicesium hexachloroplutonate (DCHP) preparation in Building 371 also generated IDC 508. This process produced DCHP, a salt used to remove americium from nonspecification and impure plutonium oxide. The oxide was dissolved in hydrochloric acid and filtered. The filtrate was then precipitated using cesium chloride and sodium nitrite in hydrochloric acid and then filtered again. Plutonium was recovered from the DCHP precipitation filtrate through chloride anion exchange. This was achieved by processing the solution through ion columns, and the plutonium loaded onto the anion exchange resin while most of the impurities stayed in the solution. This solution then left the column as effluent (IDC 501). The ion column was later washed to release the chloride eluate (IDC 508). Peroxide Precipitation in Building 779 reacted ion exchange effluent with hydrogen peroxide to produce plutonium peroxide, which was then calcined to produce plutonium oxide. The plutonium peroxide precipitate was filtered and washed. Residue Recovery Extraction in Building 779 recovered actinides using aqueous leaching techniques. Hydrofluoric acid solutions containing aluminium fluoride, cesium chloride, calcium fluoride, and sodium nitrate were generated. RE: Section 6.2.11, RFETS doesn't expect nitrates, sulfates, phosphates >1 wt%, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W118	Handling:	CH	NMVP #:	N/A	Stream Name:	Miscellaneous Liquids/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics

Inventory Date: 9/5/94

Waste Matrix Code:

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Bottle / 4-Liter	0.01	0.0	0.0	0.0	0.0	0.01
Totals	0.0	0.0	0.0	0.0	0.0	0.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 0.01 Projected: 0.0 Total: 0.01

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	As result of the shutdown of plutonium operations at RFP in November, 1989, several hundred plastic bottles and several tanks of process liquids remained in storage.
WASTE STREAM SOURCE	Item Description Code 541 Building 371 The Building 371 analytical laboratory receives liquid and solid samples from the entire plant site. Samples that are destined for Building 881 are analyzed in Building 371 to screen out those with high levels of radioactivity. Sludge and aqueous samples from Building 374 are analyzed for total alpha activity and plutonium, uranium, and americium content. Prior to analysis, the sludges are dissolved in nitric acid, hydrogen fluoride, or hydrochloric acid. Reagents are also used in sample preparation. Unused portions or excess prepared sample are placed in 4-liter plastic bottles. Building 559 The Building 559 analytical laboratory also receives liquid and solid samples from the entire plant site. Samples are analyzed for various ions, iron, silicon, isotopic composition, and americium, gallium, neptunium, plutonium, uranium, and other metals (Resource Conservation and Recovery Act [RCRA]-regulated and nonregulated). Solid samples are dissolved in a variety of acids, including nitric and hydrochloric. Other chemicals used in the laboratory include methanol, chloroform, and other organic solvents; titanium trichloride; ceric ammonium nitrate; sodium hydroxide; silver chloride; silver nitrate; and various metals standards. Unused portions or excess prepared samples are placed in 4-liter plastic bottles. Metal standards are also placed in the bottles. Building 771 The Building 771 analytical laboratory also receives liquid and solid samples from the entire plant site. Samples are analyzed for various metals and ions, pH, and radioactivity. The principal chemicals used in the lab include sodium hydroxide, hydrochloric acid, nitric acid, cyclohexane, trioctyl phosphine oxide, yttrium, and various metal standards. Unused portions or excess prepared samples are placed in 4-liter plastic bottles. Metal standards are also placed in the bottles.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W112	Handling:	CH	NMVP #:	RF 113	Stream Name:	Solidified Lab Waste/TRU	Inventory Date:	9/5/94
Local ID:	IDC 802	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	Z1110

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	847.2	303.9	985.1
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	190.3	68.4	221.5
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	112.0	40.1	130.1
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	64.8		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

RF 113

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	9.76E-01
Pu-240	4.10E-02
Pu-239	1.79E-01
Am-241	3.15E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	7.5	26.3	0.0	0.0	0.0	33.8
Totals	7.5	26.3	0.0	0.0	0.0	33.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	7.5	26.3	0.0	0.0	0.0	33.8
Totals	7.5	26.3	0.0	0.0	0.0	33.8

As-Generated Form: Stored: 7.5 Projected: 26.0 Total: 33.5

Final Waste Form: Stored: 7.5 Projected: 26.0 Total: 33.5

WASTE STREAM DESCRIPTION	IDC 802 is a cemented final waste form.
WASTE STREAM SOURCE	IDC No. 802. This waste stream is liquid waste solidified with Portland Cement. This waste consists of waste liquids from the analytical labs, research and development laboratories, and maintenance shops which are packaged and sent to Building 774 for immobilization with Portland cement and absorbent cement. These are wastes which are incompatible with the process collection system and the liquid waste treatment plant. Acidic wastes are neutralized before immobilization. Immobilization is done in 55-gallon drums. Approximately 21 gallons of waste are added to each drum prior to storage. This waste steam is newly identified since the Storage and Inventory Report.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W105	Handling:	CH	NMVP #:	RF 114	Stream Name:	Solidified Process Solids/TRU	Inventory Date:	9/5/94
Local ID:	IDC 806	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3150

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	489.0	376.2	635.7
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	135.8	104.5	176.5
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	73.1	56.2	95.1
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	64.8		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No.

Asbestos: No

PCBs: No

Source:

TRUCON CODE

RF 114

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.91E+02
Pu-240	8.01E+00
Pu-239	3.50E+01
Am-241	4.76E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

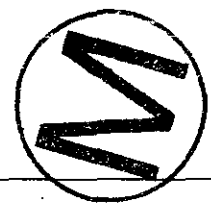
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.0	0.0	0.0	89.9	112.3	202.2
Totals	0.0	0.0	0.0	89.9	112.3	202.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	89.9	112.3	202.2
Totals	0.0	0.0	0.0	89.9	112.3	202.2

As-Generated Form: Stored: 0.0 Projected: 202.2 Total: 202.2

Final Waste Form: Stored: 0.0 Projected: 202.2 Total: 202.2



WASTE STREAM DESCRIPTION	Cemented final waste form.
WASTE STREAM SOURCE	This waste stream represents the solidified final form of all particulate and sludge type materials. Particulates and sludge type materials are immobilized with Portland cement. The cemented wastes are cast into 1-gallon molds and allowed to cure prior to packaging. This is the final waste form for Firebrick, Pulverized or Fines/TRM (RF-T036), Particulate Sludge/TRM (RF-T005), and Sand, Slag, and Crucible/TRM (RF-T059). IDC 806 - All inorganic particulate and inorganic sludge waste must be immobilized by processing into a solid and identified as IDC 806.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W122	Handling:	CH	NMVP #:	RF 126	Stream Name:	Organic Resins/TRU	Inventory Date:	9/5/94
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Organics	Waste Matrix Code:	

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	213.6	2.3	362.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	44.0	0.5	74.6
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	59.5	0.6	100.8
Cement (solidified):	32.0	0.4	54.3
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

RF 126

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	9.97E+00
Pu-240	4.19E-01
Pu-239	1.83E+00
Am-241	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.0	0.0	0.0	15.6	19.5	35.2
Totals	0.0	0.0	0.0	15.6	19.5	35.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	15.6	19.5	35.2
Totals	0.0	0.0	0.0	15.6	19.5	35.2

As-Generated Form: Stored: 0.0 Projected: 35.2 Total: 35.2

Final Waste Form: Stored: 0.0 Projected: 35.2 Total: 35.2

WASTE STREAM DESCRIPTION	It consists of unleached resin (IDC 430) and leached resin (IDC 431).
WASTE STREAM SOURCE	IDC 809 is leached ion column resin which has been cemented. Resin cannot be cemented into IDC 806 since it is organic.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Volumes include final form waste from treating the following streams: RF-TR0431, RF-TT0430, RF-TT0431, RF-TR0430.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W101	Handling:	CH	NMVP #:	N/A	Stream Name:	Combustibles/TRU	Inventory Date:	9/5/94
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.1	0.0	0.4
Vitrified:	0.0	0.0	0.0
Cellulosics:	67.4	1.4	289.5
Rubber:	6.4	0.1	27.7
Plastics:	19.6	0.4	84.2
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	4.86E+00
Pu-240	2.04E-01
Pu-239	8.90E-01
Am-241	9.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	12.5	8.8	6.7	22.2	18.3	68.4
Totals	12.5	8.8	6.7	22.2	18.3	68.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	12.5	11.6	6.7	22.2	19.8	72.7
Totals	12.5	11.6	6.7	22.2	19.8	72.7

As-Generated Form: Stored: 12.5 Projected: 56.0 Total: 68.4

Final Waste Form: Stored: 12.5 Projected: 59.7 Total: 72.2

WASTE STREAM DESCRIPTION	This waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills.
WASTE STREAM SOURCE	Item Description 821, dry combustibles such as paper, cloth, wood, etc. This stream is generated from Facility Operation, Analytical Laboratories, R&D Laboratories, and Spill Cleanups. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt. %, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W101	Handling:	CH	NMVP #:	RF 116	Stream Name:	Combustibles/TRU	Inventory Date:	9/5/94
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

RF 116

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	4.86E+00
Pu-240	2.04E-01
Pu-239	8.90E-01
Am-241	9.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	10.8	25.5	22.1	72.9	65.4	196.8
Totals	10.8	25.5	22.1	72.9	65.4	196.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	0.0	0.0	0.0
Totals	0.0	0.0	0.0	0.0	0.0	0.0

As-Generated Form: Stored: 10.8 Projected: 186.0 Total: 196.8

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills.
WASTE STREAM SOURCE	Wet combustible transuranic wastes, such as paper, cloth, and wood, which contain a discernible amount of moisture must be drained or wrung out prior to packaging to prevent accumulation of free liquid. These wastes are classified as IDC 822. This stream is generated from Facility Operation, Analytical Laboratories, R&D Laboratories, and Spill Cleanups. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt. %, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W100	Handling:	CH	NMVP #:	N/A	Stream Name:	Cemented Sludge/TRU	Inventory Date:	9/5/94
Local ID:	IDC 823	Type:	TRU	Generator Site:	RF	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	Z1110

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	29.3	0.7	98.7
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	10.5	0.2	35.5
Solidified Inorganic Material:	26.3	0.6	88.6
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	17.5	0.4	59.1
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	7.20E-01
Pu-240	3.02E-02
Pu-239	1.32E-01
Am-241	3.80E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	7.1	2.7	4.1	8.2	8.2	30.2
Totals	7.1	2.7	4.1	8.2	8.2	30.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	7.1	2.7	4.1	8.2	8.2	30.2
Totals	7.1	2.7	4.1	8.2	8.2	30.2

As-Generated Form: Stored: 7.1 Projected: 23.1 Total: 30.2

Final Waste Form: Stored: 7.1 Projected: 23.1 Total: 30.2

WASTE STREAM DESCRIPTION	This waste consists of cemented miscellaneous sludge (IDC 823)
WASTE STREAM SOURCE	IDC 823, cemented miscellaneous sludge, was generated when sludge designated as inorganic particulate and sludgy material that was below the economic discard limit (EDL) was placed in 1-gallon paint cans and covered with Portland cement or mixed with cement into a block. The first scenario was conducted in Building 771 and the second in Building 371. This could have included IDCs 290-299 and was done to meet the Waste Isolation Pilot Plant (WIPP) waste acceptance criteria. The material came primarily from Nash pumps in Building 771 and included vacuum grease and oily sludge. One drum of the material was apparently generated when the pit in front of Building 707 was cleaned out. However, the contents of the pit sludge could not be ascertained. One drum was generated in the Size Reduction Vault in Building 776. Six drums were generated in Bulding 774 and stored in Building 371.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W109	Handling:	CH	NMVP #:	RF 117	Stream Name:	METAL/TRU	Inventory Date:	9/5/94
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5111

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	169.4	1.7	365.2
Aluminum-base Metal/Alloys:	21.3	0.2	46.0
Other Metals/Alloys:	8.0	0.0	17.4
Other Inorganic Material:	14.2	0.1	30.6
Vitrified:	0.0	0.0	0.0
Cellulosics:	2.6	0.0	5.7
Rubber:	3.1	0.0	6.7
Plastics:	22.4	0.2	48.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

RF 117

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	6.76E+00
Pu-240	2.84E-01
Pu-239	1.24E+00
Am-241	9.54E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	9.8	4.1	1.6	8.6	5.4	29.5
Totals	9.8	4.1	1.6	8.6	5.4	29.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	9.8	4.1	1.6	8.6	5.4	29.5
Totals	9.8	4.1	1.6	8.6	5.4	29.5

As-Generated Form: Stored: 9.8 Projected: 19.8 Total: 29.5

Final Waste Form: Stored: 9.8 Projected: 19.8 Total: 29.5

WASTE STREAM DESCRIPTION	IDCs 480 and 481. This waste includes items such as gloveboxes and machinery, and empty containers. Items that are difficult to reduce to a size that would fit in a 55-gal. drum are placed in DOT 7A, Type A metal boxes. These drums are lined with a rigid polyethylene liner, fiberboard liner and several bag liners. The boxes are lined with a fiberboard and PVC liner. This waste also includes final form waste of classified metal (IDC Nos. 484, 485,486, 489) after processing to declassified form. Inventory data include residues in IDCs 480 and 481.
WASTE STREAM SOURCE	IDC 624 is assigned to transuranic light metals generated in Buildings 371, 559, 707, and 771 (containers currently in WEMS from these buildings). Light metals include aluminum, copper, iron, brass, bronze, galvanized metal, stainless steel, carbon steel, and other metal alloys contained in waste mechanical and electrical parts, tools, containers, scrap metals, piping, wire, cable, gauges, valves, foil, planchets, and a variety of other metal items.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W101	Handling:	CH	NMVP #:	RF 116	Stream Name:	Combustibles/TRU	Inventory Date:	9/4/94
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	25.7	0.7	56.8
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.1	0.0	0.3
Rubber:	1.7	0.0	3.8
Plastics:	42.0	1.2	92.7
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	51.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

RF 116

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	4.86E+00
Pu-240	2.04E-01
Pu-239	8.90E-01
Am-241	9.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	21.6	9.4	8.1	27.1	24.1	90.3
Totals	21.6	9.4	8.1	27.1	24.1	90.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	21.6	20.4	8.2	27.2	24.3	101.8
Totals	21.6	20.4	8.2	27.2	24.3	101.8

As-Generated Form: Stored: 21.6 Projected: 68.6 Total: 90.3

Final Waste Form: Stored: 21.6 Projected: 80.1 Total: 101.7

WASTE STREAM DESCRIPTION	This waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills.
WASTE STREAM SOURCE	IDC 825 is PVC sheeting, poly bottles, supplied-air suits, and other plastics. This stream is generated from Facility Operation, Analytical Laboratories, R&D Laboratories, and Spill Cleanups. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt. %, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Assume 70% of IDC 833 generation will be drum/55-gal based on current container distribution.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W101	Handling:	CH	NMVP #:	None	Stream Name:	Combustibles/TRU
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Combustible

Inventory Date: 9/5/94

Waste Matrix Code: S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

None

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	4.86E+00
Pu-240	2.04E-01
Pu-239	8.90E-01
Am-241	9.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	10.0	0.0	0.0	0.0	0.0	10.0
Standard waste box /	9.4	0.0	0.0	0.0	0.0	9.4
Totals	19.4	0.0	0.0	0.0	0.0	19.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 19.4 Projected: 0.0 Total: 19.4

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills.
WASTE STREAM SOURCE	IDC 831 is dry combustibles such as cloth, paper, and wood. This stream is generated from Facility Operation, Analytical Laboratories, R&D Laboratories, and Spill Cleanups. RE: Section 6.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt. %, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W101	Handling: CH	NMVP #: None	Stream Name: Combustibles/TRU		Inventory Date: 9/5/94
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Combustible		Waste Matrix Code: S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

None

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	4.86E+00
Pu-240	2.04E-01
Pu-239	8.90E-01
Am-241	9.77E-01

WASTE VOLUME DETAIL (cu. meters)

	As-Generated Waste Form Volumes						Final Waste Form Volumes						
Container	Stored	Pre-97	98-02	03-12	13-22	Totals	Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	66.1	0.0	0.0	0.0	0.0	66.1							
Totals	66.1	0.0	0.0	0.0	0.0	66.1							

As-Generated Form:	Stored:	66.1	Projected:	0.0	Total:	66.1	Final Waste Form:	Stored:	0.0	Projected: 0.0	Total:	0.0

WASTE STREAM DESCRIPTION	This waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills.
WASTE STREAM SOURCE	Wet combustibles are paper, cloth, etc., which contain a discernible amount of moisture and must be drained or wrung out prior to packaging to prevent an accumulation of free liquid. This stream is generated from Facility Operation, Analytical Laboratories, R&D Laboratories, and Spill Cleanups. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt. %, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W101	Handling:	CH	NMVP #:	None	Stream Name:	Combustibles/TRU	Inventory Date:	9/5/94
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Combustible	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

None

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	4.86E+00
Pu-240	2.04E-01
Pu-239	8.90E-01
Am-241	9.77E-01

WASTE VOLUME DETAIL (cu. meters)

Container	As-Generated Waste Form Volumes: Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	6.2	0.0	0.0	0.0	0.0	6.2
Totals	6.2	0.0	0.0	0.0	0.0	6.2

Container	Final Waste Form Volumes: Stored	Pre-97	98-02	03-12	13-22	Totals

As-Generated Form: Stored: 6.2 Projected: 0.0 Total: 6.2

Final Waste Form: Stored: 0.0 Projected: 0.0 Total: 0.0

WASTE STREAM DESCRIPTION	This waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills.
WASTE STREAM SOURCE	IDC 833 represents PVC sheeting, poly bottles, supplied-air suits, polyethylene, and other plastics. This stream is generated from Facility Operation, Analytical Laboratories, R&D Laboratories, and Spill Cleanups. RE: Section 8.2.11, RFETS doesn't expect nitrates, sulfates, phosphates > 1 wt. %, but has no supporting data.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RF-W103	Handling: CH	NMVP #: N/A	Stream Name: Misc Pu Recovery Byproducts/TRU		Inventory Date: 12/30/99
Local ID: None	Type: TRU	Generator Site: RF	Final Waste Form: Salt Waste		Waste Matrix Code: S3141

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	193.9	47.5	540.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	166.4	0.0	237.6
Vitrified:	0.0	0.0	0.0
Cellulosics:	176.1	140.4	211.7
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	34.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	2.03E+02
Pu-240	8.55E+00
Pu-239	3.73E+01
Am-241	4.23E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	7.2	0.0	112.1	140.1	259.4
Totals	0.0	7.2	0.0	112.1	140.1	259.4

As-Generated Form: Stored: 0.0 Projected: 0.0 Total: 0.0

Final Waste Form: Stored: 0.0 Projected: 259.4 Total: 259.4

WASTE STREAM DESCRIPTION	This waste is generated during plutonium recovery operations such as direct oxide reduction, molten salt extration, electrorefining, and salt scrub.
WASTE STREAM SOURCE	Oxidized salt, IDC 0999, is a projected waste form based on current plans for treatment of pyrochemical salts to meet the WIPP-WAC and DOT requirements. There will be no appreciable increase in the volume of these salts due to treatment (oxidation), but there will be a slight, as yet unquantified, mass increase due to the addition of oxidant.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W106	Handling:	CH	NMVP #:	RF-116	Stream Name:	Supercompacted Combustibles/TRU	Inventory Date:	9/5/94
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5330

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	375.7	251.3	483.0
Rubber:	35.9	24.0	46.1
Plastics:	108.1	72.3	139.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	301.0		
Packaging Material Plastic:	64.8		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

RF-116C

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	N/A
WASTE STREAM SOURCE	IDC 2116 is supercompacted combustible waste consisting of any combination of IDC 831, 832, or 835 waste.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W106	Handling:	CH	NMVP #:	RF-116	Stream Name:	Supercompacted Combustibles/TRU	Inventory Date:	9/5/94
Local ID:	None	Type:	TRU	Generator Site:	RF	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5330

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	257.7	33.4	380.1
Rubber:	24.6	3.2	36.3
Plastics:	74.2	9.6	109.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	301.0		
Packaging Material Plastic:	64.8		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Pollution Control or Waste Treatment Process

TRUCON CODE

RF-116C

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	3.7	0.0	0.0	0.0	0.0	3.7
Totals	3.7	0.0	0.0	0.0	0.0	3.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.7	0.0	0.0	0.0	0.0	3.7
Totals	3.7	0.0	0.0	0.0	0.0	3.7

As-Generated Form: Stored: 3.7 Projected: 0.0 Total: 3.7

Final Waste Form: Stored: 3.7 Projected: 0.0 Total: 3.7

WASTE STREAM DESCRIPTION	N/A
WASTE STREAM SOURCE	Soft wastes are inspected for rejectable items, including free liquids and metal, which are separated from the soft waste for further disposition. Soft wastes are moved to the precompactor where they are placed in an empty 35-gallon drum located in the precompactor. The soft waste is precompacted using a 30-ton precompactor. Once the drum is filled with precompacted waste, the lid is placed on the drum. The drum is transferred to the appropriate glovebox line for piercing. Prior to supercompaction, drums of soft waste are pierced with four holes to allow air to escape and to reduce the amount of "springback" during supercompaction. After piercing, the drums are moved to the supercompactor. A mold is lowered over the drum. Once the mold is in place, the supercompactor is lowered, compacting the drum. Liquid forced out of the waste during compaction is collected by the liquid waste collection system. After supercompaction, the pucks (supercompacted 35-gallon drums) are moved to staging. An operator selects from the available pucks to efficiently fill 55-gallow loadout drums.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RF-W011	Handling:	CH	NMVP #:	RF 117	Stream Name:	Metal/TRM
Local ID:	IDC 480	Type:	MTRU	Generator Site:	RF	Final Waste Form:	Uncategorized Metal

Inventory Date: 12/30/99

Waste Matrix Code: S5112

AS-GENERATED EPA CODES

D007, D002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

RF 117

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.10E+01
Pu-240	4.64E-01
Pu-239	2.03E+00
Am-241	1.84E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
As-Generated Form:	Stored: 0.0	Projected: 0.0			Total: 0.0	

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Final Waste Form:	Stored: 0.0	Projected: 0.0			Total: 0.0	

WASTE STREAM DESCRIPTION	This waste stream is metal tools, etc. generated during glovebox operations.
WASTE STREAM SOURCE	The one container of IDC 480, Light metal, in this waste form was generated in Building 707, Module K, in April 1991. The metal in this container is line generated material.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	EPA codes are assigned to this waste form for newly generated waste characterized by the generator using process knowledge. Discussion of these characterizations may be found in the appropriate WSRIC building book.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	Rocky Flats assays wastes to determine waste type instead of relying on process knowledge or historical data. For this reason, the potential for reclassification has not been analyzed. RFP has assumed this waste to be LDR based on process knowledge characterization. RFP currently manages all of its mixed waste as LDR storage prohibited, independent of its generation date. 1. Basis for determining LDR storage prohibition status is based primarily on process knowledge. Waste is packaged in 55 gallon DOT 7A Type A Drums. The drums are lined with one rigid polyethylene liner and several bag liners.
FINAL FORM COMMENTS	

HANFORD SITE

Location and Description

The Hanford Site (RL) is located north of the Tri Cities, Washington (Richland, Kennewick, and Pasco), on a 1450 square kilometer area of semiarid land within the Columbia River Basin in the southeastern corner of Washington State. Normal Columbia River elevations range from 119 meters, where the Columbia River enters RL near the Priest Rapids Dam, to 104 meters where it leaves the RL near the 300 area.

Activities at RL are centralized in numerically designated areas. The reactor facilities are located along the Columbia River in what is known as the 100-Area. The reactor fuel processing and waste management facilities are in the 200-Area. The 300-Area, located adjacent to, and north of, Richland, contains the reactor fuel manufacturing facilities and the research and development laboratories. The 400-Area, five miles northwest of the 300-Area, contains the Fast Flux Test Facility, a sodium-cooled fast breeder reactor. The 600-Area covers all locations not specifically given an area designation. Adjacent to, and north of, Richland, the 1100-Area contains facilities associated with administration, maintenance, transportation, and materials procurement and distribution. The 3000-Area, contains engineering and administrative offices. Administrative buildings, including the Federal Building, are located in the 700-Area, which is in downtown Richland.

RL is administered by the DOE Richland Operations Office. The current Management and Operating Contractor is Westinghouse Hanford Company.

Mission

The Hanford Site was acquired by the Federal Government in 1943 for the construction and operation of facilities to produce plutonium for the atomic weapons program during World War II. For more than 30 years, Hanford Site facilities were primarily dedicated to the production of plutonium for national defense and management of the wastes generated by chemical processing operations. In later years, programs at the Hanford Site became increasingly diverse, involving research and development for advanced reactors, renewable energy technologies, waste disposal technologies, and cleanup of contamination from past practices. The DOE has ended the production mission at the Hanford Site and is currently reorienting activities toward management of its wastes cleanup of the site. The mission now is one of environmental management, demonstration and application of advanced remediation technologies, and restoration of the Hanford Site.

During the wartime Manhattan Project, the town of Richland, Washington, was wholly-owned and controlled by the Government.

Waste Information

Processes

Retrievably stored, CH TRU waste has been received from 55 generating areas, buildings, and offsite facilities.

The Plutonium Finishing Plant (PFP) (Z Plant) is one of Hanford's waste generators and is the major source of CH TRU solid waste by volume (approximately 53.6%) The PFP where the Pu Reclamation Facility, Pu conversion, product handling, decontamination and decommissioning, analytical and chemical technology laboratories are located. Waste common to all of these are: surgical gloves, paper, glass, glovebox gloves, metal tools and equipment, and HEPA filters.

At the Pu Reclamation Facility, Pu was reclaimed from scrap solutions and solids. The scrap was treated in various ways to produce soluble and/or leachable forms of Pu for recovery. Waste generated included acid-soaked rags, liquid organics, and sludges.

Pu Conversion takes place at the Remote Mechanical C Line (RMC Line) where the Pu conversion processes received Pu nitrate as feed and converted it to either Pu oxide or metal. Waste generated included sludges, hydraulic oils, and acid-soaked rags.

Product handling includes receipt, shipment, repackaging, and nondestructive assay of special nuclear materials. Waste generated included damp rags, leather gloves, and empty metal cans used for shipping.

Decontamination and Decommissioning removed selected PFP facilities such as process gloveboxes and associated systems, ventilation systems, vacuum systems, and drain systems and dispose of them. Waste generated included damp rags, and building rubble (e.g., concrete, steel, wool, etc.).

Analytical and Chemical Technology Laboratories provide laboratory services to other PFP operations. Waste generated here included liquid organics, sludges, damp rags, and empty metal cans for shipping.

Another waste generator at Hanford was the Plutonium Uranium Extraction (PUREX) Plant. Products from this plant were weapons-grade plutonium, fuel-grade plutonium, depleted uranium, slightly enriched uranium, neptunium, and thorium. The plutonium conversion, process solution sampling, laboratory analyses, plant ventilation, and facility ventilation generated waste that was common to all these PUREX operations including surgical gloves, plastic (polyvinyl chloride and polyethylene), tape, paper, glass, glovebox gloves, and metal tools and equipment.

The overall PUREX Plant process consisted of seven fundamental interfacing processing units: feed preparation; solvent extraction, separation, and purification;
solvent recovery and treatment for recycling; backcycle waste system; acid recovery; waste treatment; offgas treatment; and conversion of plutonium nitrate to plutonium oxide.

Pu conversion operations received Pu nitrate as feed and converted the Pu to Pu oxide. Wastes generated were old and failed equipment, port covers, replaced windows, brackets and hardware, and acid-soaked rags.

Process solution sampling operations extract liquid samples from process control points to be used in system analysis and control. After use, all liquids are drained to the PUREX liquid waste system. Waste generated at this facility included broken glassware and plasticware, wet rags and paper, and piping and valving equipment.

Laboratory Analysis Operations were performed on liquid process samples used for system analysis and control. After use, all liquids were drained to the PUREX liquid waste system. Waste generated were broken glassware and plasticware, and wet rags and paper.

During Plant ventilation operations, air from contaminated areas was exhausted through HEPA filters to remove airborne contamination. TRU waste generated during these operations include contaminated HEPA filters. All HEPA filters are packaged as uncertified waste as there is no current technology available at PUREX to determine which HEPA filters meet the WIPP Waste Acceptance Criteria.

Facility Modification Operations were performed to improve overall plant performance. Modifications included the disposal of outdated and damaged equipment. Waste generated included tanks, process equipment and gloveboxes, and building materials.

Modifications/Assumptions/Development

New radionuclide data were submitted two days prior to going to print. The data were not reviewed by the technical team.

APPROACH

The approach used in preparing the RL waste stream profiles is as follows:

- Waste is divided between "past practice waste" (1970 through 1986) and currently-generated waste (1987 through 2028). Currently-generated waste includes projected waste generation.
- Past practice waste is grouped by generators, whereas currently-generated waste is grouped by waste matrix. The reasons for grouping the data in this manner are as follows: 1) the interim storage practice was changed from below ground surface (trenches) to above surface (storage buildings) in the 1986/1987 time period; 2) the By-Product Rule was issued by DOE on May 1, 1987, which compelled the hazardous components of TRU waste to be regulated by EPA under RCRA; 3) more detailed matrix information per container has been collected from the generator since 1987, and stored in the site's record waste tracking system; and 4) starting approximately 1986, waste generators began packaging the waste in accordance with the WIPP Waste Acceptance Criteria, thus reducing the need for additional waste processing prior to shipping to WIPP.
- Currently-generated waste streams were identified by reviewing each container record in the site's solid waste tracking system. Groups of containers that have similar physical characteristics and chemical contaminants (mixed only) were placed into a treatability group waste stream. The waste was then separated into drums, boxes, and RH canisters.

ASSUMPTIONS

The following assumptions were made by the site in repackaging the waste into the final waste form:

1. General

   A. A portion of the thermocouple assemblies, transfer pumps, mixing pumps, and other equipment in the single-shell and double-shell tanks will be removed, size-reduced, decontaminated, and assayed. Assay information will be used to designate the waste packages as low-level waste or TRU waste. The projection is that 10% of the equipment will be designated as RH-TRU, mixed waste and 90% will be designated as remote-handled, low level mixed waste. (WHC-EP 0768, Solid Waste 30-Year Volume Summary, p. 4-6, Table 4-1)

   B. TRU waste forecast volume data has been provided from the following off-site waste generators: AL, AE, BCL, LB, LL, and Santa Susana Field Laboratory (Rockwell, Canoga Park). The assumption is that TRU waste from these off-site waste generators will be received at RL for treatment in the Waste Receiving and Processing Facility (WRAP) and shipment to WIPP. (WHC-EP-0768, Solid Waste 30-Year Volume Summary)

   C. PUREX transition activities will generate 117 m^3 of CH-TRU and mixed TRU waste. The PUREX facility is currently undergoing transition activities towards decontamination and decommissioning. The facility transition activities at PUREX will provide a model for the subsequent transition of other canyon-type facilities in the future. Waste generation estimates from PUREX and other canyon type facilities have been included in the forecast. (WHC-EP-0768, Solid Waste 30-Year Volume Summary)

   D. Approximately 140 m^3 of spent research reactor fuel stored in trenches with the TRU waste is managed as TRU waste. Future evaluations may determine that this waste should be managed by the National Spent Fuel Program. (WHC-SD-SNF-TI-001, Revision 0)

2. Retrieval of Stored TRU Waste

   A. Stored TRU waste consists of existing TRU waste generated since May 1970 through December 1993. This waste does not include waste, originally designated as TRU waste, that has been assayed and redesignated as low-level waste during the calendar years (CY) 1986 to 1993.

   B. CH-TRU Waste

      - Of the TRU waste stored from May 1970 to December 1985 that has not been assayed and redesignated as low-level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. (WHC-EP-0225, Revision 1, Table 4-26)

- Waste is drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging the waste will result in a 35% increase in the volume of TRU-certified waste in drums. (WHC-SD-W026-SDRD-001, Revision 3)

- Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected.

- The site's solid waste tracking system does not distinguish between specific types of metals. If lead is present, then "other metals" is assumed to represent 100% of the metals in the container. Otherwise, iron-based metals is assumed to be 80% and aluminum-based metal is assumed to be 20% of the metal (reference: WHC-EP-225 Rev 1, TRU Waste Characterization Based on Current Records).

C. RH-TRU Waste

- No volume reduction is projected due to size reduction for transport in RH canisters.

3. Newly-generated TRU waste

A. This waste will be generated during the fiscal years 1994 through 2013.

B. CH-TRU Waste

- One hundred percent of the waste in drums will be managed as TRU waste with 10% considered noncertifiable and requiring treatment.

- All boxed waste (except waste in SWBs) will require size reduction in the WRAP facility.

C. RH-TRU Waste

- Newly-generated RH-TRU waste will be stored in shielded drums pending repackaging in RH-canisters in the WRAP facility.

- RH-TRU waste retrieved from the 618-11 burial ground will include some soil surrounding breached containers. It is assumed that this soil will increase the waste volume to be retrieved by 25%. No volume reduction is projected for treatment in the WRAP facility.

- A portion of the single-shell and double-shell tank equipment will be size-reduced and decontaminated, assayed, and shipped to WIPP as RH-TRU waste. The assumption is the 90% of the equipment will be classified as remote-handled, low level mixed waste and 10% will be RH-TRU, mixed waste.

- Most of the waste generated between 1987 and 1993 is debris waste. As such, projected RH-TRU waste is assumed to be debris waste.

- The mixed waste contaminants and radionuclide composition of projected RH-TRU waste are unknown.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W236	Handling:	CH	NMVP #:	N/A	Stream Name:	202A Bldg TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	619.3	0.0	0.0
Aluminum-base Metal/Alloys:	122.6	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	41.4	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	64.3	0.0	0.0
Rubber:	25.6	0.0	0.0
Plastics:	71.0	0.0	0.0
Solidified Inorganic Material:	10.4	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	10.2	0.0	0.0
Packaging Material Steel:	141.0		
Packaging Material Plastic:	21.4		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	4.76E-02
U-238	3.42E-13
U-235	1.57E-14
U-234	3.51E-13
Sr-90	4.76E-02
Pu-242	2.08E-05
Pu-241	9.32E+00
Pu-240	3.46E-01
Pu-239	1.54E+00
Pu-238	4.54E-02
Cs-137	5.08E-02
Ba-137m	4.68E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	247.6	0.0	0.0	0.0	0.0	247.6
Drum / 55-gallon	237.7	0.0	0.0	0.0	0.0	237.7
Totals	485.4	0.0	0.0	0.0	0.0	485.4

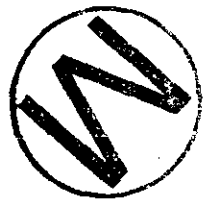
Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	320.9	0.0	0.0	0.0	0.0	320.9
Standard Waste Box	247.0	0.0	0.0	0.0	0.0	247.0
Totals	567.9	0.0	0.0	0.0	0.0	567.9

As-Generated Form: Stored: 485.4 Projected: 0.0 Total: 485.4

Final Waste Form: Stored: 567.9 Projected: 0.0 Total: 567.9

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



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W237	Handling:	CH	NMVP #:	N/A	Stream Name:	202-AL Bldg TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	553.5	0.0	0.0
Aluminum-base Metal/Alloys:	87.8	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	43.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	104.1	0.0	0.0
Rubber:	44.6	0.0	0.0
Plastics:	106.2	0.0	0.0
Solidified Inorganic Material:	14.9	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	17.8	0.0	0.0
Packaging Material Steel:	131.2		
Packaging Material Plastic:	36.7		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	6.61E-04
U-238	5.57E-09
U-235	2.57E-10
U-234	5.74E-09
Sr-90	6.61E-04
Pu-242	7.52E-10
Pu-241	3.36E-04
Pu-240	1.25E-05
Pu-239	5.58E-05
Pu-238	1.64E-06
Cs-137	7.06E-04
Ba-137m	6.49E-04

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	1.3	0.0	0.0	0.0	0.0	1.3
Drum / 55-gallon	146.8	0.0	0.0	0.0	0.0	146.8
Totals	148.1	0.0	0.0	0.0	0.0	148.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	198.2	0.0	0.0	0.0	0.0	198.2
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9
Totals	200.1	0.0	0.0	0.0	0.0	200.1

As-Generated Form: Stored: 148.1 Projected: 0.0 Total: 148.1

Final Waste Form: Stored: 200.1 Projected: 0.0 Total: 200.1

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

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W238	Handling:	CH	NMVP #:	N/A	Stream Name:	216-Z-9 Retrieved Soil	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Soils	Waste Matrix Code:	S4100

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	324	162.0	324.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	285.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	ci/m3
Y-90	2.29E-04
Sr-90	2.29E-04
Pu-242	6.33E-04
Pu-241	2.83E+02
Pu-240	1.05E+01
Pu-239	4.69E+01
Pu-238	1.38E+00
Cs-137	2.45E-04
Ba-137m	2.25E-04

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	73.8	0.0	0.0	0.0	0.0	73.8
Totals	73.8	0.0	0.0	0.0	0.0	73.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	99.6	0.0	0.0	0.0	0.0	99.6
Totals	99.6	0.0	0.0	0.0	0.0	99.6

As-Generated Form: Stored: 73.8 Projected: 0.0 Total: 73.8

Final Waste Form: Stored: 99.6 Projected: 0.0 Total: 99.6

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

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W239	Handling:	CH	NMVP #:	N/A	Stream Name:	221-T TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	552.0	0.0	0.0
Aluminum-base Metal/Alloys:	87.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	43.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	105.0	0.0	0.0
Rubber:	45.0	0.0	0.0
Plastics:	107.0	0.0	0.0
Solidified Inorganic Material:	15.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	18.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	9.26E-05
U-238	6.34E-09
U-235	2.92E-10
U-234	6.53E-09
Sr-90	9.26E-05
Pu-242	4.32E-08
Pu-241	1.93E-02
Pu-240	7.17E-04
Pu-239	3.19E-03
Pu-238	9.38E-05
Cs-137	9.89E-05
Ba-137m	9.10E-05

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	3.7	0.0	0.0	0.0	0.0	3.7
Totals	3.7	0.0	0.0	0.0	0.0	3.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	5.0	0.0	0.0	0.0	0.0	5.0
Totals	5.0	0.0	0.0	0.0	0.0	5.0

As-Generated Form: Stored: 3.7 Projected: 0.0 Total: 3.7

Final Waste Form: Stored: 5.0 Projected: 0.0 Total: 5.0

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

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W240	Handling:	CH	NMVP #:	N/A	Stream Name:	222-S TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	621.5	0.0	0.0
Aluminum-base Metal/Alloys:	123.8	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	41.4	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	63.0	0.0	0.0
Rubber:	24.9	0.0	0.0
Plastics:	69.8	0.0	0.0
Solidified Inorganic Material:	10.2	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	9.9	0.0	0.0
Packaging Material Steel:	141.3		
Packaging Material Plastic:	20.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	5.22E-04
U-238	6.16E-10
U-235	5.72E-08
U-234	5.57E-07
U-233	1.17E-02
Sr-90	5.22E-04
Pu-242	1.01E-06
Pu-241	4.53E-01
Pu-240	1.68E-02
Pu-239	7.51E-02
Pu-238	2.21E-03
Cs-137	5.58E-04
Ba-137m	5.13E-04
Am-241	1.72E-04

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	43.5	0.0	0.0	0.0	0.0	43.5
Drum / 55-gallon	32.9	0.0	0.0	0.0	0.0	32.9
Totals	76.4	0.0	0.0	0.0	0.0	76.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	44.3	0.0	0.0	0.0	0.0	44.3
Standard Waste Box	36.1	0.0	0.0	0.0	0.0	36.1
Totals	80.4	0.0	0.0	0.0	0.0	80.4

As-Generated Form: Stored: 76.4 Projected: 0.0 Total: 76.4

Final Waste Form: Stored: 80.4 Projected: 0.0 Total: 80.4

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

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W241	Handling:	CH	NMVP #:	N/A	Stream Name:	233-S TRU Waste
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous

Inventory Date: 12/31/94

Waste Matrix Code: S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	552.0	0.0	0.0
Aluminum-base Metal/Alloys:	87.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	43.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	105.0	0.0	0.0
Rubber:	45.0	0.0	0.0
Plastics:	107.0	0.0	0.0
Solidified Inorganic Material:	15.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	18.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	9.45E-05
Sr-90	9.45E-05
Pu-242	9.80E-06
Pu-241	4.40E+00
Pu-240	1.63E-01
Pu-239	7.28E-01
Pu-238	2.14E-02
Cs-137	1.01E-04
Ba-137m	9.28E-05

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	6.0	0.0	0.0	0.0	0.0	6.0
Totals	6.0	0.0	0.0	0.0	0.0	6.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	8.1	0.0	0.0	0.0	0.0	8.1
Totals	8.1	0.0	0.0	0.0	0.0	8.1

As-Generated Form: Stored: 6.0 Projected: 0.0 Total: 6.0

Final Waste Form: Stored: 8.1 Projected: 0.0 Total: 8.1

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

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W242	Handling:	CH	NMVP #:	N/A	Stream Name:	234-5Z TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	633.8	0.0	0.0
Aluminum-base Metal/Alloys:	130.3	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	41.1	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	55.5	0.0	0.0
Rubber:	21.4	0.0	0.0
Plastics:	63.2	0.0	0.0
Solidified Inorganic Material:	9.4	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	8.5	0.0	0.0
Packaging Material Steel:	143.2		
Packaging Material Plastic:	18.1		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	6.48E-03
U-238	5.70E-05
U-235	3.07E-06
U-234	1.37E-04
U-233	6.76E-05
Th-232	1.01E-08
Sr-90	6.48E-03
Pu-242	3.57E-05
Pu-241	1.59E+01
Pu-240	5.92E-01
Pu-239	2.65E+00
Pu-238	1.66E+01
Cs-137	6.92E-03
Ba-137m	6.36E-03
Am-241	6.48E-04

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	3246.5	0.0	0.0	0.0	0.0	3246.5
Drum / 55-gallon	2149.3	0.0	0.0	0.0	0.0	2149.3
Totals	5395.7	0.0	0.0	0.0	0.0	5395.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2901.4	0.0	0.0	0.0	0.0	2901.4
Standard Waste Box	3254.7	0.0	0.0	0.0	0.0	3254.7
Totals	6156.1	0.0	0.0	0.0	0.0	6156.1

As-Generated Form: Stored: 5395.7 Projected: 0.0 Total: 5395.7

Final Waste Form: Stored: 6156.1 Projected: 0.0 Total: 6156.1

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	This waste stream consists of TRU waste from the Plutonium Finishing Plant.
CURRENT CONTAINER COMMENTS	The volumes from "other containers" were combined with volumes in "boxes", and reported as "boxes". The average of the internal box volumes was computed and reported.
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.
ACCEPTANCE COMMENTS	The contact-handled TRU waste from Building 2345A was reported in Waste Nos. RL-T146 and RL-T150 in Revision 1 of the WTWBIR. This waste is reported in RL-T107 in Revision 2; RL-T146 and RL-T150 have been deleted in Revision 2.
FINAL FORM COMMENTS	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W243	Handling:	CH	NMVP #:	N/A	Stream Name:	Misc 200 West Area TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	700.0	0.0	0.0
Aluminum-base Metal/Alloys:	165.4	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	39.6	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	15.4	0.0	0.0
Rubber:	4.6	0.0	0.0
Plastics:	27.8	0.0	0.0
Solidified Inorganic Material:	4.9	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.8	0.0	0.0
Packaging Material Steel:	153.0		
Packaging Material Plastic:	2.7		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	1.09E-04
U-238	1.48E-07
U-235	6.79E-09
U-234	1.52E-07
Sr-90	1.09E-04
Pu-242	6.51E-07
Pu-241	2.91E-01
Pu-240	1.08E-02
Pu-239	4.82E-02
Pu-238	9.14E-02
Cs-137	1.17E-04
Ba-137m	1.07E-04

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	187.8	0.0	0.0	0.0	0.0	187.8
Drum / 55-gallon	6.0	0.0	0.0	0.0	0.0	6.0
Totals	193.9	0.0	0.0	0.0	0.0	193.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	8.3	0.0	0.0	0.0	0.0	8.3
Standard Waste Box	184.3	0.0	0.0	0.0	0.0	184.3
Totals	192.6	0.0	0.0	0.0	0.0	192.6

As-Generated Form: Stored: 193.9 Projected: 0.0 Total: 193.9

Final Waste Form: Stored: 192.6 Projected: 0.0 Total: 192.6

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

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W244	Handling:	CH	NMVP #:	N/A	Stream Name:	308 Bldg TRU Waste	Inventory Date:	12/19/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	641.4	0.0	0.0
Aluminum-base Metal/Alloys:	134.3	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	40.9	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	50.9	0.0	0.0
Rubber:	19.1	0.0	0.0
Plastics:	59.1	0.0	0.0
Solidified Inorganic Material:	8.9	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	7.6	0.0	0.0
Packaging Material Steel:	144.3		
Packaging Material Plastic:	16.3		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	5.81E-04
U-238	4.03E-04
U-235	1.57E-05
U-234	1.18E-03
U-233	5.54E-03
Sr-90	5.81E-04
Pu-242	8.43E-06
Pu-241	3.77E+00
Pu-240	1.40E-01
Pu-239	6.24E-01
Pu-238	1.84E-02
Cs-137	6.21E-04
Ba-137m	5.71E-04
Am-241	3.75E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	14.3	0.0	0.0	0.0	0.0	14.3
Drum / 55-gallon	6.2	0.0	0.0	0.0	0.0	6.2
Totals	20.5	0.0	0.0	0.0	0.0	20.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	8.3	0.0	0.0	0.0	0.0	8.3
Standard Waste Box	11.4	0.0	0.0	0.0	0.0	11.4
Totals	19.7	0.0	0.0	0.0	0.0	19.7

As-Generated Form: Stored: 20.5 Projected: 0.0 Total: 20.5

Final Waste Form: Stored: 19.7 Projected: 0.0 Total: 19.7

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

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W245	Handling:	CH	NMVP #:	N/A	Stream Name:	324, 325 and 327 Bldg Oper TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	592.5	0.0	0.0
Aluminum-base Metal/Alloys:	108.4	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	42.1	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	80.5	0.0	0.0
Rubber:	33.3	0.0	0.0
Plastics:	85.3	0.0	0.0
Solidified Inorganic Material:	12.2	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	13.3	0.0	0.0
Packaging Material Steel:	137.0		
Packaging Material Plastic:	27.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	1.13E-02
U-238	3.86E-04
U-235	1.33E-04
U-234	2.76E-03
U-233	2.30E-04
Th-232	5.17E-06
Sr-90	1.13E-02
Pu-242	3.86E-05
Pu-241	1.73E+01
Pu-240	6.41E-01
Pu-239	2.86E+00
Pu-238	1.40E-01
Cs-137	1.21E-02
Ba-137m	1.11E-02
Am-241	5.67E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	129.5	0.0	0.0	0.0	0.0	129.5
Drum / 55-gallon	270.2	0.0	0.0	0.0	0.0	270.2
Totals	399.7	0.0	0.0	0.0	0.0	399.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	364.8	0.0	0.0	0.0	0.0	364.8
Standard Waste Box	129.2	0.0	0.0	0.0	0.0	129.2
Totals	494.0	0.0	0.0	0.0	0.0	494.0

As-Generated Form: Stored: 399.7 Projected: 0.0 Total: 399.7

Final Waste Form: Stored: 494.0 Projected: 0.0 Total: 494.0

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	This waste stream consists of contact-handled TRU waste from the Chemical Materials Engineering Laboratory and Post Irradiation Test Laboratory.
CURRENT CONTAINER COMMENTS	N/A volumes from "other containers" were combined with volumes in "boxes", and reported as "boxes". The average of the internal box volumes was computed and reported.
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.
ACCEPTANCE COMMENTS	The contact-handled TRU waste from Building 327C was reported as Waste No. RL-T111A in Revision 1 of the WTWBIR. RL-T111A has been deleted in Revision 2 of the WTWBIR.
FINAL FORM COMMENTS	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W246	Handling:	CH	NMVP #:	N/A	Stream Name:	340 Bldg Oper and R&D TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	650.2	0.0	0.0
Aluminum-base Metal/Alloys:	139.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	40.7	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	45.6	0.0	0.0
Rubber:	16.6	0.0	0.0
Plastics:	54.5	0.0	0.0
Solidified Inorganic Material:	8.3	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	6.6	0.0	0.0
Packaging Material Steel:	145.6		
Packaging Material Plastic:	14.3		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	9.12E-04
U-238	2.32E-04
U-235	3.71E-04
U-234	5.34E-03
U-233	5.71E-05
Th-232	1.95E-06
Sr-90	9.12E-04
Pu-242	1.83E-05
Pu-241	8.21E+00
Pu-240	3.04E-01
Pu-239	1.36E+00
Pu-238	2.12E-01
Cs-137	9.74E-04
Ba-137m	8.96E-04
Am-241	4.46E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

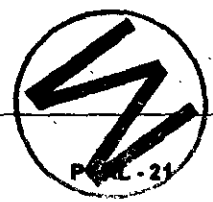
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	89.5	0.0	0.0	0.0	0.0	89.5
Drum / 55-gallon	37.2	0.0	0.0	0.0	0.0	37.2
Totals	126.8	0.0	0.0	0.0	0.0	126.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	50.3	0.0	0.0	0.0	0.0	50.3
Standard Waste Box	87.4	0.0	0.0	0.0	0.0	87.4
Totals	137.7	0.0	0.0	0.0	0.0	137.7

As-Generated Form: Stored: 126.8 Projected: 0.0 Total: 126.8

Final Waste Form: Stored: 137.7 Projected: 0.0 Total: 137.7



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

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W247	Handling:	CH	NMVP #:	N/A	Stream Name:	100 Areas and 200 Areas R&D TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	841.3	0.0	0.0
Aluminum-base Metal/Alloys:	134.3	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	40.9	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	51.0	0.0	0.0
Rubber:	19.2	0.0	0.0
Plastics:	59.2	0.0	0.0
Solidified Inorganic Material:	8.9	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	7.6	0.0	0.0
Packaging Material Steel:	144.3		
Packaging Material Plastic:	16.3		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	2.18E-04
Sr-90	2.18E-04
Pu-242	1.95E-07
Pu-241	8.71E-02
Pu-240	3.23E-03
Pu-239	1.44E-02
Pu-238	1.32E-03
Cs-137	2.32E-04
Ba-137m	2.14E-04

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	24.0	0.0	0.0	0.0	0.0	24.0
Drum / 55-gallon	13.3	0.0	0.0	0.0	0.0	13.3
Totals	37.3	0.0	0.0	0.0	0.0	37.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	18.1	0.0	0.0	0.0	0.0	18.1
Standard Waste Box	24.7	0.0	0.0	0.0	0.0	24.7
Totals	42.8	0.0	0.0	0.0	0.0	42.8

As-Generated Form: Stored: 37.3 Projected: 0.0 Total: 37.3

Final Waste Form: Stored: 42.8 Projected: 0.0 Total: 42.8

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

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W248	Handling:	CH	NMVP #:	N/A	Stream Name:	209 E Bldg TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	567.0	0.0	0.0
Aluminum-base Metal/Alloys:	94.9	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	42.7	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	95.9	0.0	0.0
Rubber:	40.7	0.0	0.0
Plastics:	99.0	0.0	0.0
Solidified Inorganic Material:	14.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	16.3	0.0	0.0
Packaging Material Steel:	133.2		
Packaging Material Plastic:	33.5		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	2.80E-03
Sr-90	2.80E-03
Pu-242	6.45E-05
Pu-241	2.89E+01
Pu-240	1.07E+00
Pu-239	4.78E+00
Pu-238	1.41E-01
Cs-137	2.99E-03
Ba-137m	2.75E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	3.2	0.0	0.0	0.0	0.0	3.2
Drum / 55-gallon	13.1	0.0	0.0	0.0	0.0	13.1
Totals	16.3	0.0	0.0	0.0	0.0	16.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	17.7	0.0	0.0	0.0	0.0	17.7
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9
Totals	19.6	0.0	0.0	0.0	0.0	19.6

As-Generated Form: Stored: 16.3 Projected: 0.0 Total: 16.3

Final Waste Form: Stored: 19.6 Projected: 0.0 Total: 19.6

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

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W249	Handling:	CH	NMVP #:	N/A	Stream Name:	231-Z Bldg TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	677.5	0.0	0.0
Aluminum-base Metal/Alloys:	153.5	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	40.1	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	29.0	0.0	0.0
Rubber:	8.7	0.0	0.0
Plastics:	39.8	0.0	0.0
Solidified Inorganic Material:	6.4	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	3.4	0.0	0.0
Packaging Material Steel:	149.7		
Packaging Material Plastic:	7.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Y-90	6.27E-05
U-238	4.45E-05
U-235	1.14E-06
U-234	4.03E-04
Th-232	4.35E-08
Sr-90	6.27E-05
Pu-242	4.97E-06
Pu-241	2.23E+00
Pu-240	8.25E-02
Pu-239	3.69E-01
Pu-238	1.08E-02
Cs-137	6.69E-05
Ba-137m	6.16E-05

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	832.3	0.0	0.0	0.0	0.0	832.3
Drum / 55-gallon	143.1	0.0	0.0	0.0	0.0	143.1
Totals	975.4	0.0	0.0	0.0	0.0	975.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	193.2	0.0	0.0	0.0	0.0	193.2
Standard Waste Box	832.2	0.0	0.0	0.0	0.0	832.2
Totals	1025.4	0.0	0.0	0.0	0.0	1025.4

As-Generated Form: Stored: 975.4 Projected: 0.0 Total: 975.4

Final Waste Form: Stored: 1025.4 Projected: 0.0 Total: 1025.4

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

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W250	Handling:	CH	NMVP #:	N/A	Stream Name:	303C Bldg TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	552.0	0.0	0.0
Aluminum-base Metal/Alloys:	87.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	43.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	105.0	0.0	0.0
Rubber:	45.0	0.0	0.0
Plastics:	107.0	0.0	0.0
Solidified Inorganic Material:	15.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	18.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	1.02E+00
U-238	5.64E-06
U-235	5.24E-04
U-234	5.10E-03
U-233	4.27E+00
Th-232	3.21E-03
Sr-90	1.02E+00
Pu-242	1.88E-04
Pu-241	8.43E+01
Pu-240	3.12E+00
Pu-239	1.39E+01
Pu-238	4.11E-01
Cs-137	1.09E+00
Ba-137m	1.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	8.1	0.0	0.0	0.0	0.0	8.1
Totals	8.1	0.0	0.0	0.0	0.0	8.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	11.0	0.0	0.0	0.0	0.0	11.0
Totals	11.0	0.0	0.0	0.0	0.0	11.0

As-Generated Form: Stored: 8.1 Projected: 0.0 Total: 8.1

Final Waste Form: Stored: 11.0 Projected: 0.0 Total: 11.0

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

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W251	Handling:	CH	NMVP #:	N/A	Stream Name:	300 Area R&D TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	572.2	0.0	0.0
Aluminum-base Metal/Alloys:	97.7	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	42.5	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	92.8	0.0	0.0
Rubber:	39.2	0.0	0.0
Plastics:	96.2	0.0	0.0
Solidified Inorganic Material:	13.6	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	15.7	0.0	0.0
Packaging Material Steel:	134.0		
Packaging Material Plastic:	32.3		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	1.64E-03
U-238	6.00E-04
U-235	6.33E-05
U-234	3.18E-03
U-233	9.48E-05
Th-232	1.26E-05
Sr-90	1.64E-03
Pu-242	7.85E-06
Pu-241	3.51E+00
Pu-240	1.30E-01
Pu-239	5.82E-01
Pu-238	1.38E-01
Cs-137	1.75E-03
Ba-137m	1.61E-03
Am-241	1.46E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	34.2	0.0	0.0	0.0	0.0	34.2
Drum / 55-gallon	168.7	0.0	0.0	0.0	0.0	168.7
Totals	202.9	0.0	0.0	0.0	0.0	202.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	227.8	0.0	0.0	0.0	0.0	227.8
Standard Waste Box	34.2	0.0	0.0	0.0	0.0	34.2
Totals	262.0	0.0	0.0	0.0	0.0	262.0

As-Generated Form: Stored: 202.9 Projected: 0.0 Total: 202.9

Final Waste Form: Stored: 262.0 Projected: 0.0 Total: 262.0

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	This waste stream consists of contact-handled TRU waste from the Radiological Calibrations Laboratory, Chemical Engineering Building, Radiochemistry Building laboratory and hot cells, and cesium recovery facility of the Radiochemistry Building, and Radioanalytical Laboratory.
CURRENT CONTAINER COMMENTS	The volumes from "other containers" were combined with volumes in "boxes", and reported as "boxes". The average of the internal box volumes was computed and reported.
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.
ACCEPTANCE COMMENTS	The contact-handled TRU waste from Building 318 was reported as Waste No. RL-T117 in Revision 1 of the WTWBIR. This waste is reported in RL-T118 in Revision 2; RL-T117 has been deleted.
FINAL FORM COMMENTS	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W252	Handling:	CH	NMVP #:	N/A	Stream Name:	TRU Construction Debris	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	655.2	0.0	0.0
Aluminum-base Metal/Alloys:	141.7	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	40.6	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	42.5	0.0	0.0
Rubber:	15.2	0.0	0.0
Plastics:	51.7	0.0	0.0
Solidified Inorganic Material:	7.9	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	6.0	0.0	0.0
Packaging Material Steel:	146.3		
Packaging Material Plastic:	13.1		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	5.71E-03
U-238	4.11E-09
U-235	1.89E-10
U-234	4.22E-09
Sr-90	5.71E-03
Pu-242	2.87E-06
Pu-241	1.28E+00
Pu-240	4.75E-02
Pu-239	2.12E-01
Pu-238	6.24E-03
Cs-137	6.10E-03
Ba-137m	5.61E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	87.2	0.0	0.0	0.0	0.0	87.2
Drum / 55-gallon	32.9	0.0	0.0	0.0	0.0	32.9
Totals	120.1	0.0	0.0	0.0	0.0	120.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	44.5	0.0	0.0	0.0	0.0	44.5
Standard Waste Box	89.3	0.0	0.0	0.0	0.0	89.3
Totals	133.8	0.0	0.0	0.0	0.0	133.8

As-Generated Form: Stored: 120.1 Projected: 0.0 Total: 120.1

Final Waste Form: Stored: 133.8 Projected: 0.0 Total: 133.8

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

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W253	Handling:	RH	NMVP #:	N/A	Stream Name:	105-KE Bldg TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	710.0	0.0	0.0
Aluminum-base Metal/Alloys:	164.5	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	41.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	22.5	0.0	0.0
Rubber:	6.6	0.0	0.0
Plastics:	34.6	0.0	0.0
Solidified Inorganic Material:	5.7	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	2.1	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	6.06E-01
Sr-90	6.06E-01
Pu-242	1.72E-06
Pu-241	3.86E+00
Pu-240	5.83E-02
Pu-239	1.17E-01
Pu-238	1.87E-02
Cs-137	6.47E-01
Ba-137m	5.96E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

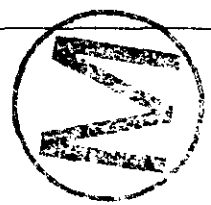
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	49.0	0.0	0.0	0.0	0.0	49.0
Drum / 55-gallon	4.6	0.0	0.0	0.0	0.0	4.6
Totals	53.6	0.0	0.0	0.0	0.0	53.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	53.4	0.0	0.0	0.0	0.0	53.4
Totals	53.4	0.0	0.0	0.0	0.0	53.4

As-Generated Form: Stored: 53.6 Projected: 0.0 Total: 53.6

Final Waste Form: Stored: 53.4 Projected: 0.0 Total: 53.4



WASTE STREAM DESCRIPTION	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	This waste stream consists of remote-handled TRU waste from the operation of the Fuel Storage Basins.
CURRENT CONTAINER COMMENTS	N/A volumes from "other containers" were combined with volumes in "boxes", and reported as "boxes". The average of the internal box volumes was computed and reported.
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.2A, Radioactive Waste Management. Upper and lower weights of final waste form are unknown.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Upper and lower weights of final waste form are unknown.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W254	Handling:	CH	NMVP #:	N/A	Stream Name:	105-C, 105KE, and 105-N Bldg TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	692.4	0.0	0.0
Aluminum-base Metal/Alloys:	161.3	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	39.7	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	20.0	0.0	0.0
Rubber:	4.4	0.0	0.0
Plastics:	31.8	0.0	0.0
Solidified Inorganic Material:	5.4	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	1.7	0.0	0.0
Packaging Material Steel:	151.9		
Packaging Material Plastic:	4.5		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	3.29E-01
U-238	5.52E-05
U-235	5.13E-03
U-234	4.98E-02
Th-232	3.78E-06
Sr-90	3.29E-01
Pu-242	2.50E-06
Pu-241	1.12E+00
Pu-240	4.17E-02
Pu-239	1.85E-01
Pu-238	5.47E-03
Cs-137	3.52E-01
Ba-137m	3.24E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	26.4	0.0	0.0	0.0	0.0	26.4
Drum / 55-gallon	2.1	0.0	0.0	0.0	0.0	2.1
Totals	28.5	0.0	0.0	0.0	0.0	28.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.7	0.0	0.0	0.0	0.0	2.7
Standard Waste Box	26.6	0.0	0.0	0.0	0.0	26.6
Totals	29.3	0.0	0.0	0.0	0.0	29.3

As-Generated Form: Stored: 28.5 Projected: 0.0 Total: 28.5

Final Waste Form: Stored: 29.3 Projected: 0.0 Total: 29.3

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	This waste stream consists of TRU waste from the operation of the reactors.
CURRENT CONTAINER COMMENTS	The volumes from "other containers" were combined with volumes in "boxes", and reported as "boxes". The average of the internal box volumes was computed and reported.
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 65% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W255	Handling:	CH	NMVP #:	N/A	Stream Name:	Argonne Nat Lab Type 1 TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	AE	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	552.0	0.0	0.0
Aluminum-base Metal/Alloys:	87.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	43.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	105.0	0.0	0.0
Rubber:	45.0	0.0	0.0
Plastics:	107.0	0.0	0.0
Solidified Inorganic Material:	15.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	18.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
U-238	1.06E-04
U-235	9.81E-03
U-234	9.56E-02
Th-232	1.44E-05
Pu-242	3.46E-04
Pu-241	1.55E+02
Pu-240	5.74E+00
Pu-239	2.55E+01
Pu-238	7.53E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.6 Projected: 0.0 Total: 0.6

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

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W256	Handling:	RH	NMVP #:	N/A	Stream Name:	Argonne Nat Lab Type II TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	AE	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	744.8	0.0	0.0
Aluminum-base Metal/Alloys:	117.6	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	57.5	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	141.3	0.0	0.0
Rubber:	60.3	0.0	0.0
Plastics:	144.7	0.0	0.0
Solidified Inorganic Material:	20.7	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	24.4	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	2.98E+01
U-233	2.03E-01
Th-232	1.56E-04
Sr-90	2.98E+01
Cs-137	3.19E+01
Ba-137m	2.93E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.9	0.0	0.0	0.0	0.0	0.9
Totals	0.9	0.0	0.0	0.0	0.0	0.9

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.9 Projected: 0.0 Total: 0.9

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.
WASTE STREAM SOURCE	This waste stream consists of remote-handled TRU waste from the Argonne National Laboratory-East.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.2A, Radioactive Waste Management. Upper and lower weights of final waste form are unknown.
ACCEPTANCE COMMENTS	This waste stream was erroneously identified as contact-handled TRU waste in Revision 1 of the WTWBIR. It has been reclassified as remote-handled waste in Revision 2 of the WTWBIR.
FINAL FORM COMMENTS	Upper and lower weights of final waste form are unknown.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W257	Handling:	CH	NMVP #:	N/A	Stream Name:	Argonne Nat Lab Type III TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	AE	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	552.0	0.0	0.0
Aluminum-base Metal/Alloys:	87.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	43.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	105.0	0.0	0.0
Rubber:	45.0	0.0	0.0
Plastics:	107.0	0.0	0.0
Solidified Inorganic Material:	15.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	18.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	2.81E+01
U-233	2.92E-01
Th-232	1.70E-04
Sr-90	2.81E+01
Pu-242	2.93E-10
Pu-241	1.32E-04
Pu-240	4.86E-06
Pu-239	2.17E-05
Pu-238	6.39E-07
Cs-137	3.00E+01
Ba-137m	2.76E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	11.2	0.0	0.0	0.0	0.0	11.2
Totals	11.2	0.0	0.0	0.0	0.0	11.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	15.2	0.0	0.0	0.0	0.0	15.2
Totals	15.2	0.0	0.0	0.0	0.0	15.2

As-Generated Form:	Stored:	11.2	Projected:	0.0	Total:	11.2	Final Waste Form:	Stored:	15.2	Projected:	0.0	Total:	15.2

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

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W258	Handling:	CH	NMVP #:	N/A	Stream Name:	Babcock Wilcox TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:		Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	617.3	0.0	0.0
Aluminum-base Metal/Alloys:	121.6	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	41.5	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	65.5	0.0	0.0
Rubber:	26.1	0.0	0.0
Plastics:	72.1	0.0	0.0
Solidified Inorganic Material:	10.5	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	10.4	0.0	0.0
Packaging Material Steel:	140.7		
Packaging Material Plastic:	21.9		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	3.44E-03
U-238	3.32E-05
U-235	5.96E-07
U-234	2.82E-04
Sr-90	3.44E-03
Pu-242	4.73E-05
Pu-241	2.12E+01
Pu-240	7.85E-01
Pu-239	3.51E+00
Pu-238	1.03E-01
Cs-137	3.67E-03
Ba-137m	3.38E-03
Am-241	1.15E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	118.8	0.0	0.0	0.0	0.0	118.8
Drum / 55-gallon	121.5	0.0	0.0	0.0	0.0	121.5
Totals	240.3	0.0	0.0	0.0	0.0	240.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	163.9	0.0	0.0	0.0	0.0	163.9
Standard Waste Box	119.7	0.0	0.0	0.0	0.0	119.7
Totals	283.6	0.0	0.0	0.0	0.0	283.6

As-Generated Form: Stored: 240.3 Projected: 0.0 Total: 240.3

Final Waste Form: Stored: 283.6 Projected: 0.0 Total: 283.6

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

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W259	Handling:	CH	NMVP #:	N/A	Stream Name:	Bartlesville TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:		Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	552.0	0.0	0.0
Aluminum-base Metal/Alloys:	87.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	43.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	105.0	0.0	0.0
Rubber:	45.0	0.0	0.0
Plastics:	107.0	0.0	0.0
Solidified Inorganic Material:	15.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	18.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	5.54E-02
Sr-90	5.54E-02
Pu-242	7.85E-10
Pu-241	3.51E-04
Pu-240	1.30E-05
Pu-239	5.81E-05
Pu-238	1.71E-06
H-3	1.13E+01
Cs-137	5.91E-02
C-14	2.67E+00
Ba-137m	5.44E-02
Am-241	1.72E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4

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

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W260	Handling:	CH	NMVP #:	N/A	Stream Name:	Battelle Columbus TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	BC	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	644.0	0.0	0.0
Aluminum-base Metal/Alloys:	135.7	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	40.9	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	49.3	0.0	0.0
Rubber:	18.4	0.0	0.0
Plastics:	57.7	0.0	0.0
Solidified Inorganic Material:	8.7	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	7.3	0.0	0.0
Packaging Material Steel:	144.7		
Packaging Material Plastic:	15.7		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	2.81E-03
U-238	5.74E-05
U-235	1.85E-05
U-234	2.67E-04
Sr-90	2.81E-03
Pu-242	6.40E-06
Pu-241	2.86E+00
Pu-240	1.06E-01
Pu-239	4.75E-01
Pu-238	4.70E+00
Cs-137	3.00E-03
Ba-137m	2.76E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	17.0	0.0	0.0	0.0	0.0	17.0
Drum / 55-gallon	8.7	0.0	0.0	0.0	0.0	8.7
Totals	25.7	0.0	0.0	0.0	0.0	25.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	11.6	0.0	0.0	0.0	0.0	11.6
Standard Waste Box	17.1	0.0	0.0	0.0	0.0	17.1
Totals	28.7	0.0	0.0	0.0	0.0	28.7

As-Generated Form:	Stored:	25.7	Projected:	0.0	Total:	25.7	Final Waste Form:	Stored:	28.7	Projected:	0.0	Total:	28.7

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	This waste stream consists of contact-handled TRU waste from Battelle Columbus Laboratory.
CURRENT CONTAINER COMMENTS	The average of the internal box volumes was computed and reported.
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.
ACCEPTANCE COMMENTS	The Type II Battelle Columbus waste reported as Waste No. RL-T130 in Revision 1 of the WTWBIR has been merged in Revision 2 with the Type I waste reported in RL-T129. RL-T130 has been replaced n Revision 2 of the WTWBIR with TRU waste generated by Bettis Atomic Power Laboratory.
FINAL FORM COMMENTS	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W261	Handling:	CH	NMVP #:	N/A	Stream Name:	Bettis TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	BC	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	552.0	0.0	0.0
Aluminum-base Metal/Alloys:	87.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	43.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	105.0	0.0	0.0
Rubber:	45.0	0.0	0.0
Plastics:	107.0	0.0	0.0
Solidified Inorganic Material:	15.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	18.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	4.32E-01
U-238	4.40E-07
U-235	4.09E-05
U-234	3.99E-04
Sr-90	4.32E-01
Pu-242	1.88E-06
Pu-241	8.43E-01
Pu-240	3.13E-02
Pu-239	1.40E-01
Pu-238	4.11E-03
Cs-137	4.61E-01
Ba-137m	4.24E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.
WASTE STREAM SOURCE	This waste stream consists of contact-handled TRU waste from Bettis Atomic Power Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.
ACCEPTANCE COMMENTS	The Type II Battelle Columbus waste reported as Waste No. RL-T130 in Revision 1 of the WTWBIR has been merged in Revision 2 with the Type I waste reported in RL-T129. RL-T130 has been replaced n Revision 2 of the WTWBIR with TRU waste generated by Bettis Atomic Power Laboratory.
FINAL FORM COMMENTS	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W262	Handling:	CH	NMVP #:	N/A	Stream Name:	Energy Systems Group TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:		Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	552.0	0.0	0.0
Aluminum-base Metal/Alloys:	87.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	43.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	105.0	0.0	0.0
Rubber:	45.0	0.0	0.0
Plastics:	107.0	0.0	0.0
Solidified Inorganic Material:	15.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	18.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	1.24E-02
U-238	5.71E-07
U-235	2.78E-05
U-234	2.73E-04
Sr-90	1.24E-02
Pu-242	1.27E-05
Pu-241	5.68E+00
Pu-240	2.10E-01
Pu-239	9.41E-01
Pu-238	2.77E-02
Cs-137	1.37E-02
Ba-137m	1.26E-02
Am-241	3.39E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	22.3	0.0	0.0	0.0	0.0	22.3
Totals	22.3	0.0	0.0	0.0	0.0	22.3

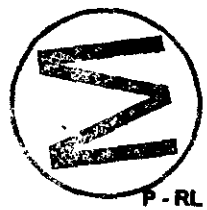
Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	30.2	0.0	0.0	0.0	0.0	30.2
Totals	30.2	0.0	0.0	0.0	0.0	30.2

As-Generated Form: Stored: 22.3 Projected: 0.0 Total: 22.3

Final Waste Form: Stored: 30.2 Projected: 0.0 Total: 30.2

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



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W263	Handling:	CH	NMVP #:	N/A	Stream Name:	Exxon TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:		Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	552.0	0.0	0.0
Aluminum-base Metal/Alloys:	87.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	43.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	105.0	0.0	0.0
Rubber:	45.0	0.0	0.0
Plastics:	107.0	0.0	0.0
Solidified Inorganic Material:	15.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	18.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	4.63E-03
U-238	8.30E-03
U-235	3.81E-04
U-234	8.54E-03
Sr-90	4.63E-03
Pu-242	1.32E-03
Pu-241	5.89E+02
Pu-240	2.19E+01
Pu-239	9.78E+01
Pu-238	2.87E+00
Cs-137	4.95E-03
Ba-137m	4.55E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	21.2	0.0	0.0	0.0	0.0	21.2
Totals	21.2	0.0	0.0	0.0	0.0	21.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	28.7	0.0	0.0	0.0	0.0	28.7
Totals	28.7	0.0	0.0	0.0	0.0	28.7

As-Generated Form: Stored: 21.2 Projected: 0.0 Total: 21.2

Final Waste Form: Stored: 28.7 Projected: 0.0 Total: 28.7

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

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W264	Handling:	CH	NMVP #:	N/A	Stream Name:	International Atomic Energy Agency TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:		Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	552.0	0.0	0.0
Aluminum-base Metal/Alloys:	87.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	43.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	105.0	0.0	0.0
Rubber:	45.0	0.0	0.0
Plastics:	107.0	0.0	0.0
Solidified Inorganic Material:	15.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	18.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Source Unknown

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	4.97E-03
Sr-90	4.97E-03
Pu-242	1.52E-04
Pu-241	6.81E+01
Pu-240	2.53E+00
Pu-239	1.13E+01
Pu-238	3.32E-01
Cs-137	5.31E-03
Ba-137m	4.88E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

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

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W265	Handling:	CH	NMVP #:	N/A	Stream Name:	Lawrence Berkeley Nat Lab TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	LB	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	552.0	0.0	0.0
Aluminum-base Metal/Alloys:	87.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	43.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	105.0	0.0	0.0
Rubber:	45.0	0.0	0.0
Plastics:	107.0	0.0	0.0
Solidified Inorganic Material:	15.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	18.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	3.99E+00
Sr-90	3.99E+00
Pu-242	7.85E-06
Pu-241	3.51E+00
Pu-240	1.30E-01
Pu-239	5.82E-01
Pu-238	1.71E-02
Cs-137	4.26E+00
Ba-137m	3.92E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

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

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W266	Handling:	CH	NMVP #:	N/A	Stream Name:	Lawrence Livermore TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	LL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	552.0	0.0	0.0
Aluminum-base Metal/Alloys:	87.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	43.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	105.0	0.0	0.0
Rubber:	45.0	0.0	0.0
Plastics:	107.0	0.0	0.0
Solidified Inorganic Material:	15.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	18.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	2.49E-04
U-238	1.11E-03
U-235	1.78E-05
U-234	9.97E-03
Sr-90	2.49E-04
Pu-242	1.83E-05
Pu-241	8.20E+00
Pu-240	3.04E-01
Pu-239	1.36E+00
Pu-238	4.00E-02
Cs-137	2.66E-04
Ba-137m	2.44E-04

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4

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

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W267	Handling:	CH	NMVP #:	N/A	Stream Name:	Kerr McGee TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:		Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	552.0	0.0	0.0
Aluminum-base Metal/Alloys:	87.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	43.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	105.0	0.0	0.0
Rubber:	45.0	0.0	0.0
Plastics:	107.0	0.0	0.0
Solidified Inorganic Material:	15.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	18.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	4.18E-03
U-238	3.99E-05
U-235	1.84E-06
U-234	4.11E-05
Sr-90	4.18E-03
Pu-242	6.32E-05
Pu-241	2.83E+01
Pu-240	1.05E+00
Pu-239	4.69E+00
Pu-238	1.38E-01
Cs-137	4.46E-03
Ba-137m	4.11E-03
Am-241	1.33E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	112.3	0.0	0.0	0.0	0.0	112.3
Totals	112.3	0.0	0.0	0.0	0.0	112.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	151.6	0.0	0.0	0.0	0.0	151.6
Totals	151.6	0.0	0.0	0.0	0.0	151.6

As-Generated Form: Stored: 112.3 Projected: 0.0 Total: 112.3

Final Waste Form: Stored: 151.6 Projected: 0.0 Total: 151.6

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

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W268	Handling:	CH	NMVP #:	N/A	Stream Name:	Rocky Flats TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	RF	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	552.0	0.0	0.0
Aluminum-base Metal/Alloys:	87.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	43.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	105.0	0.0	0.0
Rubber:	45.0	0.0	0.0
Plastics:	107.0	0.0	0.0
Solidified Inorganic Material:	15.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	18.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	8.29E-03
U-238	2.12E-02
U-235	3.54E-04
U-234	1.90E-01
Sr-90	8.29E-03
Pu-242	1.66E-05
Pu-241	7.45E+00
Pu-240	2.76E-01
Pu-239	1.23E+00
Pu-238	3.63E-02
Cs-137	8.85E-03
Ba-137m	8.14E-03
Am-241	7.39E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	102.3	0.0	0.0	0.0	0.0	102.3
Totals	102.3	0.0	0.0	0.0	0.0	102.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	138.1	0.0	0.0	0.0	0.0	138.1
Totals	138.1	0.0	0.0	0.0	0.0	138.1

As-Generated Form: Stored: 102.3 Projected: 0.0 Total: 102.3

Final Waste Form: Stored: 138.1 Projected: 0.0 Total: 138.1

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.
WASTE STREAM SOURCE	This waste stream consists of contact-handled TRU waste from Rocky Flats.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums is expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.
ACCEPTANCE COMMENTS	The Type II Rocky Flats waste reported as Waste No. RL-T141 in Revision 1 of the WTWBIR has been merged in Revision 2 with the Type I waste reported in RL-T140. RL-T141 has been deleted in Revision 2 of the WTWBIR.
FINAL FORM COMMENTS	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W269	Handling:	CH	NMVP #:	N/A	Stream Name:	GE San Jose and Vallecitos TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	GE	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	697.6	0.0	0.0
Aluminum-base Metal/Alloys:	164.1	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	39.6	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	16.9	0.0	0.0
Rubber:	2.9	0.0	0.0
Plastics:	29.1	0.0	0.0
Solidified Inorganic Material:	5.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	1.1	0.0	0.0
Packaging Material Steel:	152.6		
Packaging Material Plastic:	3.3		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	2.95E-04
U-238	6.69E-05
U-235	5.84E-06
U-234	9.55E-05
Sr-90	2.95E-04
Pu-242	2.25E-06
Pu-241	1.01E+00
Pu-240	3.74E-02
Pu-239	1.67E-01
Pu-238	4.92E-03
Cs-137	3.15E-04
Ba-137m	2.90E-04

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	384.4	0.0	0.0	0.0	0.0	384.4
Drum / 55-gallon	17.7	0.0	0.0	0.0	0.0	17.7
Totals	402.1	0.0	0.0	0.0	0.0	402.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	23.7	0.0	0.0	0.0	0.0	23.7
Standard Waste Box	380.0	0.0	0.0	0.0	0.0	380.0
Totals	403.7	0.0	0.0	0.0	0.0	403.7

As-Generated Form: Stored: 402.1 Projected: 0.0 Total: 402.1

Final Waste Form: Stored: 403.7 Projected: 0.0 Total: 403.7

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	This waste consists of typically contact-handled TRU waste from the General Electric Plants at San Jose and Vallecitos.
CURRENT CONTAINER COMMENTS	N/A average of the internal box volumes was computed and reported.
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.
ACCEPTANCE COMMENTS	The Type I and II GE Pleasanton waste reported in Waste Nos. RL-T138 and RL-T139 and RL-139, and the GE Vallecitos waste reported in RL-T144 in Revision 1 of the WTWBIR have been merged in Revision 2 with the waste reported in RL-T143. RL-T138, RL-T139, and RL-T144 have been deleted in Revision 2.
FINAL FORM COMMENTS	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W270	Handling:	CH	NMVP #:	N/A	Stream Name:	Ward TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:		Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	678.5	0.0	0.0
Aluminum-base Metal/Alloys:	154.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	40.1	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	28.5	0.0	0.0
Rubber:	8.4	0.0	0.0
Plastics:	39.3	0.0	0.0
Solidified Inorganic Material:	6.3	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	3.3	0.0	0.0
Packaging Material Steel:	149.8		
Packaging Material Plastic:	7.7		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	1.94E-03
U-238	1.75E-05
U-235	7.46E-06
U-234	1.26E-04
Th-232	1.37E-07
Sr-90	1.94E-03
Pu-242	3.64E-06
Pu-241	1.63E+00
Pu-240	6.03E-02
Pu-239	2.70E-01
Pu-238	7.94E-03
Cs-137	2.07E-03
Ba-137m	1.90E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	582.0	0.0	0.0	0.0	0.0	582.0
Drum / 55-gallon	96.1	0.0	0.0	0.0	0.0	96.1
Totals	678.1	0.0	0.0	0.0	0.0	678.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	129.8	0.0	0.0	0.0	0.0	129.8
Standard Waste Box	581.4	0.0	0.0	0.0	0.0	581.4
Totals	711.2	0.0	0.0	0.0	0.0	711.2

As-Generated Form: Stored: 678.1 Projected: 0.0 Total: 678.1

Final Waste Form: Stored: 711.2 Projected: 0.0 Total: 711.2

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	This waste stream consists of contact-handled TRU waste from the Westinghouse Advanced Reactor Division (WARD).
CURRENT CONTAINER COMMENTS	The average of the internal box volumes was computed and reported.
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.A, Radioactive Waste Management. Of the TRU waste stored from May 1970 to December 1986 that has not been assayed and redesignated as low level waste (by December 1993), 50% of the waste stored in 55-gallon drums, and 85% of the waste stored in boxes are expected to be TRU waste upon assaying. The remainder is expected to be low-level waste upon assaying. The reported volumes and radionuclides have been adjusted to take this assumption into account. Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Waste in boxes will be opened, and size-reduced to fit into TRUPACT-II SWBs. No volume reduction is projected. Upper and lower weights for final waste form are unknown.
ACCEPTANCE COMMENTS	The Ward waste reported in Waste Nos. RL-T144 in Revision 1 of the WTWBIR has been merged in Revision 2 with the waste reported in RL-T145. RL-T144 has been deleted in Revision 2.
FINAL FORM COMMENTS	Waste in drums will be opened, examined to remove non-certifiable waste, and then packaged into new drums. The projection is that repackaging will result in a 35% increase in the volume of TRU-certified wastes in drums (WHC-SD-W026-SDRD-001, Rev. 3). Upper and lower weights for final waste form are unknown.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W271	Handling:	RH	NMVP #:	N/A	Stream Name:	325 and 325B Bldg Op TRU Caisson Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	709.3	0.0	0.0
Aluminum-base Metal/Alloys:	165.4	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	40.7	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	20.1	0.0	0.0
Rubber:	5.5	0.0	0.0
Plastics:	32.4	0.0	0.0
Solidified Inorganic Material:	5.4	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	1.7	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	8.07E+01
U-238	3.23E-04
U-235	4.30E-03
U-234	4.41E-02
U-233	1.85E-02
Th-232	1.06E-05
Sr-90	8.07E+01
Pu-242	1.82E-04
Pu-241	3.89E+02
Pu-240	6.17E+00
Pu-239	1.24E+01
Pu-238	1.98E+00
Cs-137	8.62E+01
Ba-137m	7.93E+01
Am-241	3.62E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	26.2	0.0	0.0	0.0	0.0	26.2
Drum / 55-gallon	1.9	0.0	0.0	0.0	0.0	1.9
Totals	28.1	0.0	0.0	0.0	0.0	28.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	27.6	0.0	0.0	0.0	0.0	27.6
Totals	27.6	0.0	0.0	0.0	0.0	27.6

As-Generated Form: Stored: 28.1 Projected: 0.0 Total: 28.1

Final Waste Form: Stored: 27.6 Projected: 0.0 Total: 27.6

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	This waste stream consists of remote-handled TRU waste from the Radiochemistry Building and Shielded Laboratory Annex.
CURRENT CONTAINER COMMENTS	[redacted] volumes from "other containers" were combined with volumes in "boxes", and reported as "boxes". The average of the internal box volumes was computed and reported.
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.2A, Radioactive Waste Management. Upper and lower weights of final waste form are unknown.
ACCEPTANCE COMMENTS	The remote-handled TRU waste from Building 324 reported under Waste No. RL-T147 in Revision 1 of the WTWBIR has been merged with waste reported under RL-T148. This waste is reported in RL-T148 in Revision 2.
FINAL FORM COMMENTS	Upper and lower weights of final waste form are unknown.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W272	Handling:	RH	NMVP #:	N/A	Stream Name:	324 and 327C TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	737.6	0.0	0.0
Aluminum-base Metal/Alloys:	127.3	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	54.1	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	116.7	0.0	0.0
Rubber:	49.2	0.0	0.0
Plastics:	121.9	0.0	0.0
Solidified Inorganic Material:	17.6	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	19.8	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	1.78E+03
U-238	4.78E-04
U-235	6.66E-03
U-234	6.81E-02
U-233	1.12E-02
Th-232	5.37E-05
Sr-90	1.78E+03
Pu-242	2.29E-04
Pu-241	4.91E+02
Pu-240	7.78E+00
Pu-239	1.56E+01
Pu-238	2.50E+00
Cs-137	1.90E+03
Co-60	8.02E+01
Ba-137m	1.74E+03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	4.5	0.0	0.0	0.0	0.0	4.5
Drum / 55-gallon	19.3	0.0	0.0	0.0	0.0	19.3
Totals	23.8	0.0	0.0	0.0	0.0	23.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	24.0	0.0	0.0	0.0	0.0	24.0
Totals	24.0	0.0	0.0	0.0	0.0	24.0

As-Generated Form: Stored: 23.8 Projected: 0.0 Total: 23.8

Final Waste Form: Stored: 24.0 Projected: 0.0 Total: 24.0

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	This waste stream consists of typically remote-handled TRU waste from the Chemical Engineering Building and Post Irradiation Test Laboratory.
CURRENT CONTAINER COMMENTS	N/A volumes from "other containers" were combined with volumes in "boxes", and reported as "boxes". The average of the internal box volumes was computed and reported.
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.2A, Radioactive Waste Management. Upper and lower weights of final waste form are unknown.
ACCEPTANCE COMMENTS	The remote-handled TRU waste from Building 324 reported under Waste No. RL-T147 in Revision 1 of the WTWBIR has been merged with waste reported under RL-T148. This waste is reported in RL-T148 in Revision 2.
FINAL FORM COMMENTS	Upper and lower weights of final waste form are unknown.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W273	Handling:	RH	NMVP #:	N/A	Stream Name:	325A and 325B R&D TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	707.6	0.0	0.0
Aluminum-base Metal/Alloys:	167.8	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	39.9	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	14.1	0.0	0.0
Rubber:	2.8	0.0	0.0
Plastics:	26.8	0.0	0.0
Solidified Inorganic Material:	4.7	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.5	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	3.05E+01
U-238	7.13E-08
U-235	6.65E-06
U-234	6.48E-05
U-233	1.09E-01
Th-232	5.97E-04
Sr-90	3.05E+01
Pu-242	3.74E-07
Pu-241	8.02E-01
Pu-240	1.27E-02
Pu-239	2.55E-02
Pu-238	4.08E-03
Cs-137	3.12E+01
Ba-137m	2.92E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	68.0	0.0	0.0	0.0	0.0	68.0
Drum / 55-gallon	1.5	0.0	0.0	0.0	0.0	1.5
Totals	69.4	0.0	0.0	0.0	0.0	69.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	69.4	0.0	0.0	0.0	0.0	69.4
Totals	69.4	0.0	0.0	0.0	0.0	69.4

As-Generated Form: Stored: 69.4 Projected: 0.0 Total: 69.4

Final Waste Form: Stored: 69.4 Projected: 0.0 Total: 69.4

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	This waste stream consists of remote-handled TRU waste from the Cesium Recovery Facility and Shielded Laboratory Annex of the Radiochemistry Building.
CURRENT CONTAINER COMMENTS	N/A volumes from "other containers" were combined with volumes in "boxes", and reported as "boxes". The average of the internal box volumes was computed and reported.
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.2A, Radioactive Waste Management. Upper and lower weights of final waste form are unknown.
ACCEPTANCE COMMENTS	This waste stream has been expanded in Revision 2 of the WTWBIR to report remote-handled waste from both Buildings 325A and 325B.
FINAL FORM COMMENTS	Upper and lower weights of final waste form are unknown.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W274	Handling:	RH	NMVP #:	N/A	Stream Name:	202A Bldg Remote-Handled TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:		Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	725.8	0.0	0.0
Aluminum-base Metal/Alloys:	143.3	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	48.5	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	76.3	0.0	0.0
Rubber:	30.9	0.0	0.0
Plastics:	84.5	0.0	0.0
Solidified Inorganic Material:	12.5	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	12.2	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	1.50E-01
Sr-90	1.50E-01
Pu-242	1.98E-07
Pu-241	4.25E-01
Pu-240	6.73E-03
Pu-239	1.35E-02
Pu-238	2.16E-03
Cs-137	1.61E-01
Ba-137m	1.48E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	2.6	0.0	0.0	0.0	0.0	2.6
Drum / 55-gallon	2.7	0.0	0.0	0.0	0.0	2.7
Totals	5.3	0.0	0.0	0.0	0.0	5.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	5.3	0.0	0.0	0.0	0.0	5.3
Totals	5.3	0.0	0.0	0.0	0.0	5.3

As-Generated Form: Stored: 5.3 Projected: 0.0 Total: 5.3

Final Waste Form: Stored: 5.3 Projected: 0.0 Total: 5.3

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30 % of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Boxes typically contain whole and sectioned glove boxes, hoods, ducting, conduit, lathes, pumps, piping, fans, light fixture, instrumentation, tools, conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oils have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	This waste stream consists of remote-handled TRU waste from the Purex Canyon and Service Facility.
CURRENT CONTAINER COMMENTS	The average of the internal box volumes was computed and reported.
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.2A, Radioactive Waste Management. Upper and lower weights of final waste form are unknown.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Upper and lower weights of final waste form are unknown.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W275	Handling:	RH	NMVP #:	N/A	Stream Name:	202AL and 222S Bldg Remote-Handled TRU Waste	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:		Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5440

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	744.8	0.0	0.0
Aluminum-base Metal/Alloys:	117.6	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	57.5	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	141.3	0.0	0.0
Rubber:	60.3	0.0	0.0
Plastics:	144.7	0.0	0.0
Solidified Inorganic Material:	20.7	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	24	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Analytical Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	3.10E-01
U-238	8.87E-08
U-235	4.09E-09
U-234	9.14E-08
Sr-90	3.10E-01
Pu-242	5.87E-10
Pu-241	1.26E-03
Pu-240	1.99E-05
Pu-239	4.00E-05
Pu-238	6.40E-06
Cs-137	3.31E-01
Ba-137m	3.04E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	18.5	0.0	0.0	0.0	0.0	18.5
Totals	18.5	0.0	0.0	0.0	0.0	18.5

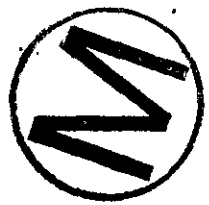
Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	18.7	0.0	0.0	0.0	0.0	18.7
Totals	18.7	0.0	0.0	0.0	0.0	18.7

As-Generated Form: Stored: 18.5 Projected: 0.0 Total: 18.5

Final Waste Form: Stored: 18.7 Projected: 0.0 Total: 18.7

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of waste in drums is combustible items such as wood, plastics, paper, absorbents, rubber, rags. Approximately 20 to 30% of waste in drums is noncombustible waste, such as failed machinery, tools, glass, concrete, plumbing and fixture and soil. Absorbed combustible liquids such as oils have also been placed in some drums. Drums are also used for disposal of high-efficiency particulate air filters.
WASTE STREAM SOURCE	This waste stream consists of remote-handled TRU waste from process analytical laboratories.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Inventory is from the site's record solid waste tracking system, a requirement of DOE Order 5820.2A, Radioactive Waste Management. Upper and lower weights of final form are unknown.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Upper and lower weights of final waste form are unknown.



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W276	Handling:	RH	NMVP #:	N/A	Stream Name:	ARGON Pb/Cd Met lead RH St MTRU	Inventory Date:	
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Lead/Cadmium Metal Waste	Waste Matrix Code:	X7210

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	66.4	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	310.4	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	202.7	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	526.0		
Packaging Material Plastic:	26.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	0.00E+00
Pu-240	0.00E+00
Pu-239	0.00E+00
Beta/Gamma	1.43E+03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.2	0.0	0.0	0.0	0.0	1.2
Totals	1.2	0.0	0.0	0.0	0.0	1.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister used to overpack 55 gallon drums	1.8	0.0	0.0	0.0	0.0	1.8
Totals	1.8	0.0	0.0	0.0	0.0	1.8

As-Generated Form: Stored: 1.2 Projected: 0.0 Total: 1.2

Final Waste Form: Stored: 1.8 Projected: 0.0 Total: 1.8

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS LEAD, METAL/IRON/GALVANIZED/SHEET, CEMENT.
WASTE STREAM SOURCE	This stream is lead cadmium metal remote handled State regulated mixed TRU waste from the Argonne National Laboratory - East
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W277	Handling:	CH	NMVP #:	N/A	Stream Name:	BATCO Pb/Cd Met lead CH RCRA MTRU w/ met	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Lead/Cadmium Metal Waste	Waste Matrix Code:	X7210

AS-GENERATED EPA CODES

P015, D008, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Am-241	0.00E+00
Pu-241	0.00E+00
Pu-240	0.00E+00
Pu-239	0.00E+00
Beta/Gamma	9.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 0.6 Projected: 0.0 Total: 0.6

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS LEAD, METAL/IRON/GALVANIZED/SHEET.
WASTE STREAM SOURCE	This stream is lead cadmium metal contact handled RCRA regulated mixed TRU waste with metal contaminants from the Battelle Columbus Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W278	Handling:	CH	NMVP #:	N/A	Stream Name:	ESG Comb debris CH RCRA MTRU w/ met
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Combustible

Inventory Date: 12/1/94

Waste Matrix Code: S5300

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	22.1	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	37.2	0.0	0.0
Other Inorganic Material:	9.7	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	56.3	0.0	0.0
Rubber:	52.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	30.5		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Am-241	0.00E+00
Pu-241	0.00E+00
Pu-240	0.00E+00
Pu-239	0.00E+00
Beta/Gamma	4.40E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS WOOD/LUMBER/PLYWOOD, RUBBER, DIRT/SOIL/DIATOMACEOUS EARTH, LEAD, METAL/IRON/GALVANIZED/SHEET, ABSORBENT/KITY LTR/VERMICULITE, PAPER/CARDBOARD, STAINLESS STEEL.
WASTE STREAM SOURCE	This stream is combustible contact handled RCRA regulated mixed TRU waste with metal contaminants from the Energy Systems Group.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W279	Handling:	CH	NMVP #:	N/A	Stream Name:	MCGEE Heter debris CH St MTRU	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	104.9	0.0	0.0
Aluminum-base Metal/Alloys:	1.8	0.0	0.0
Other Metals/Alloys:	0.2	0.0	0.0
Other Inorganic Material:	16.3	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	27.4	0.0	0.0
Rubber:	4.1	0.0	0.0
Plastics:	31.8	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	4.7	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	18.2	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	3.24E+00
Pu-240	1.20E-01
Pu-239	5.40E-01
Beta/Gamma	2.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	6.9	0.0	0.0	0.0	0.0	6.9
Totals	6.9	0.0	0.0	0.0	0.0	6.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	69.3	0.0	0.0	0.0	0.0	69.3
Totals	69.3	0.0	0.0	0.0	0.0	69.3

As-Generated Form: Stored: 6.9 Projected: 0.0 Total: 6.9

Final Waste Form: Stored: 69.3 Projected: 0.0 Total: 69.3

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS STAINLESS STEEL, PLASTIC/POLYURETHANE, PAPER/CARDBOARD, FILTERS, METAL/IRON/GALVANIZED/SHEET, SOLVENTS/THINNERS, RUBBER, CONCRETE, PAINTS/LUCITE, ABSORBENT/KITY LTR/VERMICULITE, WOOD/LUMBER/PLYWOOD, SLUDGES, SAND, ALUMIN.
WASTE STREAM SOURCE	This stream is hetergeneous contact handled State regulated mixed TRU waste from the Kerr-McGee.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W280	Handling:	CH	NMVP #:	N/A	Stream Name:	MCGEE Solidif org debris CH St MTRU	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Solidified Organics	Waste Matrix Code:	S3150

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	61.7	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	5.1	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	5.6	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	16.1	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	110.2	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	39.2	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	3.24E+00
Pu-240	1.20E-01
Pu-239	5.40E-01
Beta/Gamma	5.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 2.1 Projected: 0.0 Total: 2.1

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS METAL/IRON/GALVANIZED/SHEET, SLUDGES, WATER, SOLVENTS/THINNERS, PLASTIC/POLYURETHANE, FILTERS, PAINTS/LUCITE, CONCRETE.
WASTE STREAM SOURCE	This stream is solidified organics contact handled State regulated mixed TRU waste from the Kerr-McGee.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W281	Handling:	CH	NMVP #:	N/A	Stream Name:	183H Solidif inorg labpks CH RCRA MTRU w/ met lgn	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	X6200

AS-GENERATED EPA CODES

U123, P120, P106, P098, P030, P029, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	49.4	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.3	0.0	0.0
Solidified Inorganic Material:	617.8	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Am-241	0.00E+00
Pu-241	0.00E+00
Pu-240	0.00E+00
Pu-239	0.00E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.3	0.0	0.0	0.0	0.0	0.3
Totals	0.3	0.0	0.0	0.0	0.0	0.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.3	0.0	0.0	0.0	0.0	3.3
Totals	3.3	0.0	0.0	0.0	0.0	3.3

As-Generated Form:	Stored:	0.3	Projected:	0.0	Total:	0.3	Final Waste Form:	Stored:	3.3	Projected:	0.0	Total:	3.3

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS LIQUID, ABSORBENT/KITY LTR/VERMICULITE, PLASTIC/POLYURETHANE.
WASTE STREAM SOURCE	This stream is solidified inorganics contact handled RCRA regulated mixed TRU waste with metal ignitable contaminants from the Solidified dewatered fuel fabrication sludge.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W282	Handling:	CH	NMVP #:	N/A	Stream Name:	200W Solidif org debris CH St MTRU	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Solidified Organics	Waste Matrix Code:	S4000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	37.3	0.0	0.0
Rubber:	18.6	0.0	0.0
Plastics:	18.6	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	0.00E+00
Pu-240	0.00E+00
Pu-239	0.00E+00
Beta/Gamma	2.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.3	0.0	0.0	0.0	0.0	0.3
Totals	0.3	0.0	0.0	0.0	0.0	0.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.3	0.0	0.0	0.0	0.0	3.3
Totals	3.3	0.0	0.0	0.0	0.0	3.3

As-Generated Form: Stored: 0.3 Projected: 0.0 Total: 0.3

Final Waste Form: Stored: 3.3 Projected: 0.0 Total: 3.3

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS PLASTIC/POLYURETHANE, MISCELLANEOUS/UNKNOWN/OTHER, PAPER/CARDBOARD, RUBBER, CLOTH/RAGS/NYLON.
WASTE STREAM SOURCE	This stream is solidified organics contact handled State regulated mixed TRU waste from the Chemical Separations Area.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TWBIR ID: RL-W283

Appendix P

DOE/CAO-95-1121

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W283	Handling:	CH	NMVP #:	N/A	Stream Name:	201C Soils CH/r RCRA MTRU w/ met	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Soils	Waste Matrix Code:	S4000

AS-GENERATED EPA CODES

D010, D007

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	29.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	68.7	0.0	0.0
Rubber:	21.2	0.0	0.0
Plastics:	33.7	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.1	0.0	0.0
Packaging Material Steel:	428.7		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Am-241	2.47E+00
Pu-241	8.00E-02
Pu-240	0.00E+00
Pu-239	1.00E-02
Beta/Gamma	1.14E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	11.6	0.0	0.0	0.0	0.0	11.6
Totals	11.6	0.0	0.0	0.0	0.0	11.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	116.5	0.0	0.0	0.0	0.0	116.5
Totals	116.5	0.0	0.0	0.0	0.0	116.5

As-Generated Form: Stored: 11.6 Projected: 0.0 Total: 11.6

Final Waste Form: Stored: 116.5 Projected: 0.0 Total: 116.5

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS DIRT/SOIL/DIATOMACEOUS EARTH, WOOD/LUMBER/PLYWOOD, METAL/IRON/GALVANIZED/SHEET, PLASTIC/POLYURETHANE, HAZARDOUS CONSTITUENTS, RUBBER, FILTERS, ANIMAL WASTE.
WASTE STREAM SOURCE	This stream is soils contact handled packaged remote RCRA regulated mixed TRU waste with metal contaminants from the Demolition of the Semi-works facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W285	Handling:	CH	NMVP #:	N/A	Stream Name:	202A Solidif org debris CH RCRA MTRU w/ org ign	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Solidified Organics	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

F003, D019, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	74.3	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	11.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	61.6	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	8.27E+01
Pu-240	2.96E+00
Pu-239	1.31E+01
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.2	0.0	0.0	0.0	0.0	1.2
Totals	1.2	0.0	0.0	0.0	0.0	1.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	12.1	0.0	0.0	0.0	0.0	12.1
Totals	12.1	0.0	0.0	0.0	0.0	12.1

As-Generated Form: Stored: 1.2 Projected: 0.0 Total: 1.2

Final Waste Form: Stored: 12.1 Projected: 0.0 Total: 12.1

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS CONWEB PADS, METAL/IRON/GALVANIZED/SHEET, HAZARDOUS CONSTITUENTS, GLASS, PLASTIC/POLYURETHANE.
WASTE STREAM SOURCE	This stream is solidified organics contact handled RCRA regulated mixed TRU waste with organic ignitable contaminants from the Fuel Reprocessing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W286	Handling:	CH	NMVP #:	N/A	Stream Name:	MCGEE Solidif org inorg part CH St MTRU	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Solidified Organics	Waste Matrix Code:	S3110

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	162.3	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	1.5	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	8.7	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	3.24E+00
Pu-240	1.20E-01
Pu-239	5.40E-01
Beta/Gamma	1.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 2.1 Projected: 0.0 Total: 2.1

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS ABSORBENT/KITY LTR/VERMICULITE, OILS, PLASTIC/POLYURETHANE.
WASTE STREAM SOURCE	This stream is solidified organics contact handled State regulated mixed TRU waste from the Kerr-McGee.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W287	Handling:	CH	NMVP #:	N/A	Stream Name:	202A Pb/Cd Met debris CH RCRA MTRU w/ met cor	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Lead/Cadmium Metal Waste	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

D008, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	31.7	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	158.0	0.0	0.0
Other Inorganic Material:	13.3	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	4.1	0.0	0.0
Rubber:	62.0	0.0	0.0
Plastics:	81.6	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Am-241	0.00E+00
Pu-241	8.27E+01
Pu-240	2.96E+00
Pu-239	1.31E+01
Beta/Gamma	6.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.2	0.0	0.0	0.0	0.0	4.2
Totals	4.2	0.0	0.0	0.0	0.0	4.2

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 4.2 Projected: 0.0 Total: 4.2

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS PLASTIC/POLYURETHANE, RUBBER, LEAD, METAL/IRON/GALVANIZED/SHEET, CLOTH/RAGS/NYLON, ABSORBENT/KITY LTR/VERMICULITE, CHEMICALS.
WASTE STREAM SOURCE	This stream is lead cadmium metal contact handled RCRA regulated mixed TRU waste with metal corrosive contaminants from the Fuel Reprocessing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W288	Handling:	CH	NMVP #:	N/A	Stream Name:	202A Uncat met debris CH RCRA MTRU w/ met cor	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

D008, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	177.8	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	30.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	2.1	0.0	0.0
Rubber:	1.7	0.0	0.0
Plastics:	61.5	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	8.27E+01
Pu-240	2.96E+00
Pu-239	1.31E+01
Beta/Gamma	3.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0
Totals	1.0	0.0	0.0	0.0	0.0	1.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	10.4	0.0	0.0	0.0	0.0	10.4
Totals	10.4	0.0	0.0	0.0	0.0	10.4

As-Generated Form:	Stored:	1.0	Projected:	0.0	Total:	1.0	Final Waste Form:	Stored:	10.4	Projected:	0.0	Total:	10.4

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS PLASTIC/POLYURETHANE, METAL/IRON/GALVANIZED/SHEET, CLOTH/RAGS/NYLON, LEAD, RUBBER, CHEMICALS, HAZARDOUS CONSTITUENTS.
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled RCRA regulated mixed TRU waste with metal corrosive contaminants from the Fuel Reprocessing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W289	Handling:	CH	NMVP #:	N/A	Stream Name:	202A Comb debris CH RCRA MTRU w/ met cor	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Combustible	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

D008, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	46.4	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	48.6	0.0	0.0
Other Inorganic Material:	1.6	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	7.9	0.0	0.0
Rubber:	9.9	0.0	0.0
Plastics:	118.7	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	8.27E+01
Pu-240	2.96E+00
Pu-239	1.31E+01
Beta/Gamma	8.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	21.0	0.0	0.0	0.0	0.0	21.0
Totals	21.0	0.0	0.0	0.0	0.0	21.0

As-Generated Form: Stored: 2.1 Projected: 0.0 Total: 2.1

Final Waste Form: Stored: 21.0 Projected: 0.0 Total: 21.0

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS PLASTIC/POLYURETHANE, METAL/IRON/GALVANIZED/SHEET, RUBBER, STAINLESS STEEL, CLOTH/RAGS/NYLON, LEAD, GLASS, WOOD/LUMBER/PLYWOOD, PAPER/CARDBOARD, HAZARDOUS CONSTITUENTS.
WASTE STREAM SOURCE	This stream is combustible contact handled RCRA regulated mixed TRU waste with metal corrosive contaminants from the Fuel Reprocessing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W290	Handling:	CH	NMVP #:	N/A	Stream Name:	202A Pb/Cd Met debris CH RCRA MTRU w/ met	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Lead/Cadmium Metal Waste	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	4.8	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	191.9	0.0	0.0
Other Inorganic Material:	33.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	3.0	0.0	0.0
Rubber:	110.2	0.0	0.0
Plastics:	28.7	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Am-241	0.00E+00
Pu-241	8.27E+01
Pu-240	2.96E+00
Pu-239	1.31E+01
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.3	0.0	0.0	0.0	0.0	2.3
Totals	2.3	0.0	0.0	0.0	0.0	2.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	23.1	0.0	0.0	0.0	0.0	23.1
Totals	23.1	0.0	0.0	0.0	0.0	23.1

As-Generated Form: Stored: 2.3 Projected: 0.0 Total: 2.3

Final Waste Form: Stored: 23.1 Projected: 0.0 Total: 23.1

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS RUBBER, LEAD, PLASTIC/POLYURETHANE, ABSORBENT/KITY LTR/VERMICULITE, METAL/IRON/GALVANIZED/SHEET, CLOTH/RAGS/NYLON, GLASS.
WASTE STREAM SOURCE	This stream is lead cadmium metal contact handled RCRA regulated mixed TRU waste with metal contaminants from the Fuel Reprocessing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W291	Handling:	CH	NMVP #:	N/A	Stream Name:	202A Uncat met debris CH RCRA MTRU w/ met	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	61.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.7	0.0	0.0
Other Inorganic Material:	0.6	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	6.0	0.0	0.0
Rubber:	0.1	0.0	0.0
Plastics:	13.5	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Am-241	0.00E+00
Pu-241	8.27E+01
Pu-240	2.96E+00
Pu-239	1.31E+01
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Box	7.1	0.0	0.0	0.0	0.0	7.1
Totals	7.6	0.0	0.0	0.0	0.0	7.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.2	0.0	0.0	0.0	0.0	4.2
Standard Waste Box	7.6	0.0	0.0	0.0	0.0	7.6
Totals	11.7	0.0	0.0	0.0	0.0	11.7

As-Generated Form: Stored: 7.6 Projected: 0.0 Total: 7.6

Final Waste Form: Stored: 11.7 Projected: 0.0 Total: 11.7

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS METAL/IRON/GALVANIZED/SHEET, PLASTIC/POLYURETHANE, WOOD/LUMBER/PLYWOOD, PAPER/CARDBOARD, CONCRETE, CLOTH/RAGS/NYLON, LEAD, RUBBER.
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled RCRA regulated mixed TRU waste with metal contaminants from the Fuel Reprocessing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W292	Handling:	CH	NMVP #:	N/A	Stream Name:	202A Inorg non-met debris CH RCRA MTRU w/ met cor	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

D008, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	76.6	0.0	0.0
Other Inorganic Material:	78.2	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	7.0	0.0	0.0
Rubber:	47.6	0.0	0.0
Plastics:	38.1	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Am-241	0.00E+00
Pu-241	8.27E+01
Pu-240	2.96E+00
Pu-239	1.31E+01
Beta/Gamma	1.30E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 2.1 Projected: 0.0 Total: 2.1

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS RUBBER, PLASTIC/POLYURETHANE, ABSORBENT/KITY LTR/VERMICULITE, LEAD, CLOTH/RAGS/NYLON, CHEMICALS.
WASTE STREAM SOURCE	This stream is inorganic non-metal contact handled RCRA regulated mixed TRU waste with metal corrosive contaminants from the Fuel Reprocessing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W293	Handling:	CH	NMVP #:	N/A	Stream Name:	202A Comb debris CH RCRA MTRU w/ met	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Combustible	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	20.9	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	53.0	0.0	0.0
Other Inorganic Material:	0.3	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	12.6	0.0	0.0
Rubber:	81.6	0.0	0.0
Plastics:	73.5	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	8.27E+01
Pu-240	2.96E+00
Pu-239	1.31E+01
Beta/Gamma	6.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.3	0.0	0.0	0.0	0.0	1.3
Totals	1.3	0.0	0.0	0.0	0.0	1.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	12.7	0.0	0.0	0.0	0.0	12.7
Totals	12.7	0.0	0.0	0.0	0.0	12.7

As-Generated Form: Stored: 1.3 Projected: 0.0 Total: 1.3

Final Waste Form: Stored: 12.7 Projected: 0.0 Total: 12.7

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS RUBBER, PLASTIC/POLYURETHANE, METAL/IRON/GALVANIZED/SHEET, LEAD, STAINLESS STEEL, WOOD/LUMBER/PLYWOOD, CLOTH/RAGS/NYLON, PAPER/CARDBOARD, GLASS.
WASTE STREAM SOURCE	This stream is combustible contact handled RCRA regulated mixed TRU waste with metal contaminants from the Fuel Reprocessing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W294	Handling:	CH	NMVP #:	N/A	Stream Name:	202A Heter debris CH RCRA MTRU w/ met(Hg)	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

D009, D008, D006, D005

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	15.1	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	55.0	0.0	0.0
Other Inorganic Material:	36.3	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	8.1	0.0	0.0
Rubber:	32.1	0.0	0.0
Plastics:	50.8	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	8.27E+01
Pu-240	2.96E+00
Pu-239	1.31E+01
Beta/Gamma	1.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.0	0.0	0.0	0.0	0.0	1.0
Totals	1.0	0.0	0.0	0.0	0.0	1.0

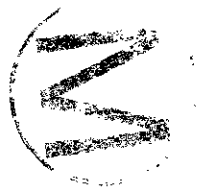
Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	10.4	0.0	0.0	0.0	0.0	10.4
Totals	10.4	0.0	0.0	0.0	0.0	10.4

As-Generated Form: Stored: 1.0 Projected: 0.0 Total: 1.0

Final Waste Form: Stored: 10.4 Projected: 0.0 Total: 10.4

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS PLASTIC/POLYURETHANE, RUBBER, LEAD, FILTERS, ABSORBENT/KITY LTR/VERMICULITE, METAL/IRON/GALVANIZED/SHEET, GLASS, WOOD/LUMBER/PLYWOOD, CLOTH/RAGS/NYLON, BATTERIES.
WASTE STREAM SOURCE	This stream is hetergeneous contact handled RCRA regulated mixed TRU waste with metal (Hg) contaminants from the Fuel Reprocessing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W295	Handling:	CH	NMVP #:	N/A	Stream Name:	202A Uncat debris CH RCRA MTRU w/ cor	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	100.7	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	5.5	0.0	0.0
Other Inorganic Material:	0.6	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	15.7	0.0	0.0
Rubber:	22.9	0.0	0.0
Plastics:	55.2	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	8.27E+01
Pu-240	2.96E+00
Pu-239	1.31E+01
Beta/Gamma	2.40E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.9	0.0	0.0	0.0	0.0	1.9
Totals	1.9	0.0	0.0	0.0	0.0	1.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	18.9	0.0	0.0	0.0	0.0	18.9
Totals	18.9	0.0	0.0	0.0	0.0	18.9

As-Generated Form: Stored: 1.9 Projected: 0.0 Total: 1.9

Final Waste Form: Stored: 18.9 Projected: 0.0 Total: 18.9

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS PLASTIC/POLYURETHANE, METAL/IRON/GALVANIZED/SHEET, STAINLESS STEEL, RUBBER, CLOTH/RAGS/NYLON, LEAD, GLASS, WOOD/LUMBER/PLYWOOD, PAPER/CARDBOARD.
WASTE STREAM SOURCE	This stream is uncategorized contact handled RCRA regulated mixed TRU waste with corrosive contaminants from the Fuel Reprocessing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W296	Handling:	CH	NMVP #:	N/A	Stream Name:	202A Comb debris CH RCRA MTRU w/ cor	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Combustible	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	29.5	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	7.4	0.0	0.0
Other Inorganic Material:	0.4	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	11.0	0.0	0.0
Rubber:	55.0	0.0	0.0
Plastics:	71.5	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	8.27E+01
Pu-240	2.96E+00
Pu-239	1.31E+01
Beta/Gamma	2.00E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.1	0.0	0.0	0.0	0.0	3.1
Totals	3.1	0.0	0.0	0.0	0.0	3.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	31.6	0.0	0.0	0.0	0.0	31.6
Totals	31.6	0.0	0.0	0.0	0.0	31.6

As-Generated Form: Stored: 3.1 Projected: 0.0 Total: 3.1

Final Waste Form: Stored: 31.6 Projected: 0.0 Total: 31.6

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS PLASTIC/POLYURETHANE, RUBBER, CLOTH/RAGS/NYLON, METAL/IRON/GALVANIZED/SHEET, STAINLESS STEEL, LEAD, GLASS, WOOD/LUMBER/PLYWOOD, PAPER/CARDBOARD.
WASTE STREAM SOURCE	This stream is combustible contact handled RCRA regulated mixed TRU waste with corrosive contaminants from the Fuel Reprocessing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W297	Handling:	CH	NMVP #:	N/A	Stream Name:	202A Uncat met debris CH St MTRU	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	115.4	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	4.4	0.0	0.0
Other Inorganic Material:	11.3	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	12.9	0.0	0.0
Rubber:	28.3	0.0	0.0
Plastics:	39.3	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	8.27E+01
Pu-240	2.96E+00
Pu-239	1.31E+01
Beta/Gamma	2.10E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.7	0.0	0.0	0.0	0.0	1.7
Totals	1.7	0.0	0.0	0.0	0.0	1.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	16.8	0.0	0.0	0.0	0.0	16.8
Totals	16.8	0.0	0.0	0.0	0.0	16.8

As-Generated Form: Stored: 1.7 Projected: 0.0 Total: 1.7

Final Waste Form: Stored: 16.8 Projected: 0.0 Total: 16.8

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS PLASTIC/POLYURETHANE, STAINLESS STEEL, METAL/IRON/GALVANIZED/SHEET, RUBBER, PAPER/CARDBOARD, BRICK/FIREBRICK, CLOTH/RAGS/NYLON, LEAD, WOOD/LUMBER/PLYWOOD, COPPER METAL.
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled State regulated mixed TRU waste from the Fuel Reprocessing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W298	Handling:	CH	NMVP #:	N/A	Stream Name:	202A Comb debris CH St MTRU	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Combustible	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	21.4	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	6.7	0.0	0.0
Other Inorganic Material:	0.3	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	7.6	0.0	0.0
Rubber:	35.8	0.0	0.0
Plastics:	45.5	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	8.27E+01
Pu-240	2.96E+00
Pu-239	1.31E+01
Beta/Gamma	1.10E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	10.9	0.4	0.0	0.0	0.0	11.3
Box	5.0	0.0	0.0	0.0	0.0	5.0
Totals	16.0	0.4	0.0	0.0	0.0	16.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	109.2	0.4	0.0	0.0	0.0	109.6
Standard Waste Box	5.7	0.0	0.0	0.0	0.0	5.7
Totals	114.9	0.4	0.0	0.0	0.0	115.3

As-Generated Form: Stored: 16.0 Projected: 0.0 Total: 16.0

Final Waste Form: Stored: 114.9 Projected: 0.4 Total: 115.3

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS PLASTIC/POLYURETHANE, FILTERS, RUBBER, METAL/IRON/GALVANIZED/SHEET, CLOTH/RAGS/NYLON, STAINLESS STEEL, LEAD, WOOD/LUMBER/PLYWOOD, COPPER METAL, GLASS, PAPER/CARDBOARD, LEATHER, ALUMINUM.
WASTE STREAM SOURCE	This stream is combustible contact handled State regulated mixed TRU waste from the Fuel Reprocessing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W299	Handling:	CH	NMVP #:	N/A	Stream Name:	202AL Uncat met debris CH RCRA MTRU w/ met cor	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

D008, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	258.5	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	46.8	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.7	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	104.6	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Analytical Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	9.82E+01
Pu-240	3.65E+00
Pu-239	1.63E+01
Beta/Gamma	1.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	6.2	0.0	0.0	0.0	0.0	6.2
Totals	6.2	0.0	0.0	0.0	0.0	6.2

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 6.2 Projected: 0.0 Total: 6.2

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS PLASTIC/POLYURETHANE, METAL/IRON/GALVANIZED/SHEET, LEAD, CLOTH/RAGS/NYLON.
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled RCRA regulated mixed TRU waste with metal corrosive contaminants from the Fuel Reprocessing Facility Support Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W300	Handling:	CH	NMVP #:	N/A	Stream Name:	202AL Comb debris CH RCRA MTRU w/ met	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:		Final Waste Form:	Combustible	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	23.2	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	185.5	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	283.8	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Analytical Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	9.82E+01
Pu-240	3.65E+00
Pu-239	1.63E+01
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.2	0.0	0.0	0.0	0.0	4.2
Totals	4.2	0.0	0.0	0.0	0.0	4.2

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 4.2 Projected: 0.0 Total: 4.2

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS PLASTIC/POLYURETHANE, LEAD, METAL/IRON/GALVANIZED/SHEET.
WASTE STREAM SOURCE	This stream is combustible contact handled RCRA regulated mixed TRU waste with metal contaminants from the Fuel Reprocessing Facility Support Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W301	Handling:	CH	NMVP #:	N/A	Stream Name:	209E Heter lead CH RCRA MTRU w/ met
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Heterogeneous

Inventory Date: 12/1/94

Waste Matrix Code: X7210

AS-GENERATED EPA CODES

D008, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	118.9	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	237.1	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	45.0	0.0	0.0
Rubber:	12.1	0.0	0.0
Plastics:	16.8	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	1.72E+02
Pu-240	6.35E+00
Pu-239	2.83E+01
Beta/Gamma	8.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	6.2	0.0	0.0	0.0	0.0	6.2
Totals	6.2	0.0	0.0	0.0	0.0	6.2

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 6.2 Projected: 0.0 Total: 6.2

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS METAL/IRON/GALVANIZED/SHEET, CADMIUM, LEAD, PLASTIC/POLYURETHANE, RUBBER, CLOTH/RAGS/NYLON, PAPER/CARDBOARD, FIBERGLASS.
WASTE STREAM SOURCE	This stream is hetergeneous contact handled RCRA regulated mixed TRU waste with metal contaminants from the Facility/Equipment O&M Waste.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W302	Handling:	CH	NMVP #:	N/A	Stream Name:	222S Heter debris CH RCRA MTRU w/ met	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

D008, D007

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	2.9	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	479.2	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	56.9	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	74.9	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	28.7		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Analytical Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	1.84E+00
Pu-241	0.00E+00
Pu-240	0.00E+00
Pu-239	0.00E+00
Beta/Gamma	2.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.2	0.0	0.0	0.0	0.0	4.2
Totals	4.2	0.0	0.0	0.0	0.0	4.2

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 4.2 Projected: 0.0 Total: 4.2

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS CONWEB PADS, FILTERS, WOOD/LUMBER/PLYWOOD, PLASTIC/POLYURETHANE, DIRT/SOIL/DIATOMACEOUS EARTH, LEAD, METAL/IRON/GALVANIZED/SHEET, PAPER/CARDBOARD, CLOTH/RAGS/NYLON.
WASTE STREAM SOURCE	This stream is hetergeneous contact handled RCRA regulated mixed TRU waste with metal contaminants from the Process Analytical Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W303	Handling:	CH	NMVP #:	N/A	Stream Name:	224T Heter debris CH St MTRU	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	15.7	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	42.8	0.0	0.0
Rubber:	21.5	0.0	0.0
Plastics:	45.4	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	31.7		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	0.00E+00
Pu-240	1.14E+00
Pu-239	7.45E+00
Beta/Gamma	2.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 2.1 Projected: 0.0 Total: 2.1

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS PLASTIC/POLYURETHANE, PAPER/CARDBOARD, DIRT/SOIL/DIATOMACEOUS EARTH, RUBBER, GLASS, MISCELLANEOUS/UNKNOWN/OTHER, CONCRETE, CORK, CLOTH/RAGS/NYLON.
WASTE STREAM SOURCE	This stream is heterogeneous contact handled State regulated mixed TRU waste from the Transuranic Assaying and Storage Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W304	Handling:	CH	NMVP #:	N/A	Stream Name:	231Z Heter debris CH St MTRU	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	14.2	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	22.5	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	3.3	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	1.10E-01
Pu-241	1.80E+00
Pu-240	6.00E-02
Pu-239	2.80E-01
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

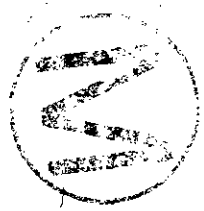
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Box	1.9	0.0	0.0	0.0	0.0	1.9
Totals	2.5	0.0	0.0	0.0	0.0	2.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	6.2	0.0	0.0	0.0	0.0	6.2
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9
Totals	8.1	0.0	0.0	0.0	0.0	8.1

As-Generated Form: Stored: 2.5 Projected: 0.0 Total: 2.5

Final Waste Form: Stored: 8.1 Projected: 0.0 Total: 8.1



WASTE STREAM DESCRIPTION	THE STREAM CONTAINS FILTERS, FIBERGLASS, WOOD/LUMBER/PLYWOOD, METAL/IRON/GALVANIZED/SHEET, PLASTIC/POLYURETHANE, ABSORBENT/KITY LTR/VERMICULITE, HAZARDOUS CONSTITUENTS.
WASTE STREAM SOURCE	This stream is heterogeneous contact handled State regulated mixed TRU waste from the PNL Materials Engineering Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are complied from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W305	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Comb debris CH RCRA MTRU w/ org met	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Combustible	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

D019, D011, D010, D008, D007, D006, D005, D004

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	12.1	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	49.1	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	23.3	0.0	0.0
Rubber:	105.4	0.0	0.0
Plastics:	70.5	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	3.5	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	31.6		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	1.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	1.7	2.1	2.5	2.1	10.4
Totals	2.1	1.7	2.1	2.5	2.1	10.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	1.7	2.1	2.5	2.1	10.4
Totals	2.1	1.7	2.1	2.5	2.1	10.4

As-Generated Form: Stored: 2.1 Projected: 8.3 Total: 10.4

Final Waste Form: Stored: 2.1 Projected: 8.3 Total: 10.4

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS RUBBER, PLASTIC/POLYURETHANE, HAZARDOUS CONSTITUENTS, DIRT/SOIL/DIATOMACEOUS EARTH, LEAD, CEMENT, PAPER/CARDBOARD, METAL/IRON/GALVANIZED/SHEET, CLOTH/RAGS/NYLON, WOOD/LUMBER/PLYWOOD, CHEMICALS.
WASTE STREAM SOURCE	This stream is combustible contact handled RCRA regulated mixed TRU waste with organic metal contaminants from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W306	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Pb/Cd Met debris CH RCRA MTRU w/ org met	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Lead/Cadmium Metal Waste	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

D019, D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	37.8	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	64.3	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	40.8	0.0	0.0
Rubber:	90.1	0.0	0.0
Plastics:	66.1	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	39.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.8	0.8	1.0	0.4	0.0	3.1
Totals	0.8	0.8	1.0	0.4	0.0	3.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	8.3	0.8	1.0	0.4	0.0	10.6
Totals	8.3	0.8	1.0	0.4	0.0	10.6

As-Generated Form: Stored: 0.8 Projected: 0.0 Total: 0.8

Final Waste Form: Stored: 8.3 Projected: 2.3 Total: 10.6

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS RUBBER, PLASTIC/POLYURETHANE, HAZARDOUS CONSTITUENTS, DIRT/SOIL/DIATOMACEOUS EARTH, PAPER/CARDBOARD, METAL/IRON/GALVANIZED/SHEET, LEAD, CLOTH/RAGS/NYLON.
WASTE STREAM SOURCE	This stream is lead cadmium metal contact handled RCRA regulated mixed TRU waste with organic metal contaminants from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W307	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Uncat met debris CH RCRA MTRU w/ org met cor	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

D019, D011, D008, D007, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	236.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	55.8	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	15.0	0.0	0.0
Plastics:	62.6	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	2.0	0.0	0.0	0.0	0.0	2.0
Totals	2.0	0.0	0.0	0.0	0.0	2.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9
Totals	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated Form: Stored: 2.0 Projected: 0.0 Total: 2.0

Final Waste Form: Stored: 1.9 Projected: 0.0 Total: 1.9

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS METAL/IRON/GALVANIZED/SHEET, HAZARDOUS CONSTITUENTS, ASBESTOS, PLASTIC/POLYURETHANE, RUBBER, ANTI-CORROSIVE RADPAD.
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled RCRA regulated mixed TRU waste with organic metal corrosive contaminants from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W308	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Uncat met debris CH RCRA MTRU w/ org
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal

Inventory Date: 12/1/94

Waste Matrix Code: S5400

AS-GENERATED EPA CODES

D019

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	137.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	14.9	0.0	0.0
Rubber:	96.1	0.0	0.0
Plastics:	67.3	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	21.6		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.2	0.0	0.0	0.0	0.6
Totals	0.4	0.2	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.2	0.0	0.0	0.0	0.6
Totals	0.4	0.2	0.0	0.0	0.0	0.6

As-Generated Form: Stored: 0.4 Projected: 0.2 Total: 0.6

Final Waste Form: Stored: 0.4 Projected: 0.2 Total: 0.6

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS METAL/IRON/GALVANIZED/SHEET, RUBBER, PLASTIC/POLYURETHANE, DIRT/SOIL/DIATOMACEOUS EARTH, PAPER/CARDBOARD, WOOD/LUMBER/PLYWOOD, CLOTH/RAGS/NYLON, HAZARDOUS CONSTITUENTS.
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled RCRA regulated mixed TRU waste with organic contaminants from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W309	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Comb debris CH RCRA MTRU w/ org	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Combustible	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

D019

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	144.2	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	25.1	0.0	0.0
Rubber:	4.8	0.0	0.0
Plastics:	177.9	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	27.4		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 2.1 Projected: 0.0 Total: 2.1

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS PLASTIC/POLYURETHANE, METAL/IRON/GALVANIZED/SHEET, DIRT/SOIL/DIATOMACEOUS EARTH, CLOTH/RAGS/NYLON, WOOD/LUMBER/PLYWOOD, RUBBER, PAPER/CARDBOARD, HAZARDOUS CONSTITUENTS.
WASTE STREAM SOURCE	This stream is combustible contact handled RCRA regulated mixed TRU waste with organic contaminants from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W310	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Soil debris CH RCRA MTRU w/ org lgn	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Soils	Waste Matrix Code:	S4200

AS-GENERATED EPA CODES

F003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	34.3	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	81.3	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	82.3		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.3	0.3	0.0	0.0	0.0	0.6
Totals	0.3	0.3	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.9	0.2	0.0	0.0	0.0	3.1
Totals	2.9	0.2	0.0	0.0	0.0	3.1

As-Generated Form: Stored: 0.3 Projected: 0.0 Total: 0.3

Final Waste Form: Stored: 2.9 Projected: 0.2 Total: 3.1

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS DIRT/SOIL/DIATOMACEOUS EARTH, PLASTIC/POLYURETHANE, CONWEB PADS, ORGANICS, WOOD/LUMBER/PLYWOOD.
WASTE STREAM SOURCE	This stream is solls contact handled RCRA regulated mixed TRU waste with organic ignitable contaminants from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W311	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Pb/Cd Met debris CH RCRA MTRU w/ met
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Lead/Cadmium Metal Waste

Inventory Date: 12/1/94

Waste Matrix Code: S5300

AS-GENERATED EPA CODES

D008, D007, D006, D005

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	13.4	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	150.5	0.0	0.0
Other Inorganic Material:	5.1	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	10.9	0.0	0.0
Rubber:	76.9	0.0	0.0
Plastics:	32.7	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	27.3		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.4	3.6	4.2	3.4	2.1	17.6
Totals	4.4	3.6	4.2	3.4	2.1	17.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.4	3.5	4.2	3.3	2.1	17.5
Totals	4.4	3.5	4.2	3.3	2.1	17.5

As-Generated Form: Stored: 4.4 Projected: 13.2 Total: 17.6

Final Waste Form: Stored: 4.4 Projected: 13.1 Total: 17.5

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS LEAD, RUBBER, PLASTIC/POLYURETHANE, DIRT/SOIL/DIATOMACEOUS EARTH, METAL/IRON/GALVANIZED/SHEET, HAZARDOUS CONSTITUENTS, LEAD SHIELDING, PAPER/CARDBOARD, GLASS, WOOD/LUMBER/PLYWOOD, CLOTH/RAGS/NYLON.
WASTE STREAM SOURCE	This stream is lead cadmium metal contact handled RCRA regulated mixed TRU waste with metal contaminants from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W312	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Pb/Cd Met debris CH RCRA MTRU w/ met cor	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Lead/Cadmium Metal Waste	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

D008, D007, D006, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	17.2	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	218.8	0.0	0.0
Other Inorganic Material:	0.7	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	15.7	0.0	0.0
Rubber:	125.5	0.0	0.0
Plastics:	44.9	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	25.5		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	1.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.3	1.9	2.1	2.5	2.1	10.9
Totals	2.3	1.9	2.1	2.5	2.1	10.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.3	1.9	2.1	2.5	2.1	10.8
Totals	2.3	1.9	2.1	2.5	2.1	10.8

As-Generated Form: Stored: 2.3 Projected: 8.6 Total: 10.9

Final Waste Form: Stored: 2.3 Projected: 8.5 Total: 10.8

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS RUBBER, LEAD, PLASTIC/POLYURETHANE, DIRT/SOIL/DIATOMACEOUS EARTH, LEAD SHIELDING, METAL/IRON/GALVANIZED/SHEET, CLOTH/RAGS/NYLON, PAPER/CARDBOARD, WOOD/LUMBER/PLYWOOD, LEATHER, GLASS, BATTERIES, STAINLESS STEEL, HAZARDOUS
WASTE STREAM SOURCE	This stream is lead cadmium metal contact handled RCRA regulated mixed TRU waste with metal corrosive contaminants from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W313	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Uncat met debris CH RCRA MTRU w/ met	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

D008, D007, D006, D004

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	59.1	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	6.9	0.0	0.0
Other Inorganic Material:	0.1	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	11.1	0.0	0.0
Rubber:	4.7	0.0	0.0
Plastics:	12.3	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	4.7		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.7	1.7	2.1	2.5	2.1	10.0
Box	7.5	7.5	7.5	0.0	0.0	22.5
Totals	9.2	9.2	9.6	2.5	2.1	32.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.7	1.7	2.1	2.5	2.1	10.0
Standard Waste Box	7.6	3.8	3.8	0.0	0.0	15.1
Totals	9.2	5.4	5.9	2.5	2.1	25.1

As-Generated Form: Stored: 9.2 Projected: 23.4 Total: 32.6

Final Waste Form: Stored: 9.2 Projected: 15.9 Total: 25.1

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS METAL/IRON/GALVANIZED/SHEET, PLASTIC/POLYURETHANE, LEAD, WOOD/LUMBER/PLYWOOD, PAPER/CARDBOARD, DIRT/SOIL/DIATOMACEOUS EARTH, HAZARDOUS CONSTITUENTS, RUBBER, CLOTH/RAGS/NYLON, GLASS, LEATHER.
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled RCRA regulated mixed TRU waste with metal contaminants from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W314	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Comb debris CH RCRA MTRU w/ met	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Combustible	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

D010, D008, D007, D006, D004

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	14.4	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	24.9	0.0	0.0
Other Inorganic Material:	3.1	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	23.5	0.0	0.0
Rubber:	61.4	0.0	0.0
Plastics:	53.8	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	1.6	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	18.7		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	1.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.6	3.8	4.2	5.0	4.2	21.7
Totals	4.6	3.8	4.2	5.0	4.2	21.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.6	3.7	4.2	5.0	4.2	21.6
Totals	4.6	3.7	4.2	5.0	4.2	21.6

As-Generated Form: Stored: 4.6 Projected: 17.1 Total: 21.7

Final Waste Form: Stored: 4.6 Projected: 17.1 Total: 21.6

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS PLASTIC/POLYURETHANE, RUBBER, PAPER/CARDBOARD, METAL/IRON/GALVANIZED/SHEET, DIRT/SOIL/DIATOMACEOUS EARTH, LEAD, CLOTH/RAGS/NYLON, HAZARDOUS CONSTITUENTS, GLASS, GROUT, ANTI-CORROSIVE RADPAD, STAINLESS STEEL, CONWEB PADS,
WASTE STREAM SOURCE	This stream is combustible contact handled RCRA regulated mixed TRU waste with metal contaminants from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W315	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Inorg non-met debris CH RCRA MTRU w/ met lgn	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

D008, D007, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	2.4	0.0	0.0
Other Inorganic Material:	64.6	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	1.9	0.0	0.0
Rubber:	1.2	0.0	0.0
Plastics:	166.9	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	50.2		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	1.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.4	0.0	0.0	0.0	0.8
Totals	0.4	0.4	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.2	0.4	0.0	0.0	0.0	4.6
Totals	4.2	0.4	0.0	0.0	0.0	4.6

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 4.2 Projected: 0.4 Total: 4.6

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS PLASTIC/POLYURETHANE, ASBESTOS, DIRT/SOIL/DIATOMACEOUS EARTH, CONWEB PADS, HAZARDOUS CONSTITUENTS, LEAD, RUBBER, CLOTH/RAGS/NYLON.
WASTE STREAM SOURCE	This stream is inorganic non-metal contact handled RCRA regulated mixed TRU waste with metal ignitable contaminants from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W316	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Soils CH RCRA MTRU w/ met cor	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Soils	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

D008, D007, D006, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	1.5	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.2	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.3	0.0	0.0
Rubber:	56.4	0.0	0.0
Plastics:	31.6	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	91.9		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 2.1 Projected: 0.0 Total: 2.1

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS RUBBER, PLASTIC/POLYURETHANE, HAZARDOUS CONSTITUENTS, DIRT/SOIL/DIATOMACEOUS EARTH, METAL/IRON/GALVANIZED/SHEET, CLOTH/RAGS/NYLON, GLASS.
WASTE STREAM SOURCE	This stream is soils contact handled RCRA regulated mixed TRU waste with metal corrosive contaminants from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W317	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Pb/Cd met unk form CH RCRA MTRU w/ met(Hg)	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Lead/Cadmium Metal Waste	Waste Matrix Code:	U9999

AS-GENERATED EPA CODES

D009, D008, D007, D006, D005

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	3.6	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	23.5	0.0	0.0
Other Inorganic Material:	1.5	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	4.2	0.0	0.0
Rubber:	105.1	0.0	0.0
Plastics:	26.7	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	42.0		
Packaging Material Plastic:	0.8		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.0	0.8	1.0	0.4	0.0	3.3
Totals	1.0	0.8	1.0	0.4	0.0	3.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	10.4	0.8	1.0	0.4	0.0	12.7
Totals	10.4	0.8	1.0	0.4	0.0	12.7

As-Generated Form: Stored: 1.0 Projected: 0.0 Total: 1.0

Final Waste Form: Stored: 10.4 Projected: 2.3 Total: 12.7

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS RUBBER, HAZARDOUS CONSTITUENTS, PLASTIC/POLYURETHANE, LEAD, DIRT/SOIL/DIATOMACEOUS EARTH, PAPER/CARDBOARD, GLASS, WOOD/LUMBER/PLYWOOD, METAL/IRON/GALVANIZED/SHEET, CLOTH/RAGS/NYLON.
WASTE STREAM SOURCE	This stream is lead cadmium metal contact handled RCRA regulated mixed TRU waste with metal (Hg) contaminants from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W318	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Pb/Cd met debris CH RCRA MTRU w/ met(Hg) cor	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Lead/Cadmium Metal Waste	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

D009, D008, D007, D006, D005, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	3.6	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	40.1	0.0	0.0
Other Inorganic Material:	1.1	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	15.0	0.0	0.0
Rubber:	105.4	0.0	0.0
Plastics:	27.2	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	47.4		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	1.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.7	1.7	2.1	2.5	2.1	10.0
Totals	1.7	1.7	2.1	2.5	2.1	10.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.7	1.7	2.1	2.5	2.1	10.0
Totals	1.7	1.7	2.1	2.5	2.1	10.0

As-Generated Form: Stored: 1.7 Projected: 8.4 Total: 10.0

Final Waste Form: Stored: 1.7 Projected: 8.3 Total: 10.0

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS RUBBER, HAZARDOUS CONSTITUENTS, PLASTIC/POLYURETHANE, DIRT/SOIL/DIATOMACEOUS EARTH, CLOTH/RAGS/NYLON, LEAD, WOOD/LUMBER/PLYWOOD, METAL/IRON/GALVANIZED/SHEET, GLASS, PAPER/CARDBOARD.
WASTE STREAM SOURCE	This stream is lead cadmium metal contact handled RCRA regulated mixed TRU waste with metal (Hg) corrosive contaminants from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W319	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Uncat met debris CH RCRA MTRU w/ met(Hg)	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5110

AS-GENERATED EPA CODES

D009, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	248.6	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	5.6	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	13.5	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	7.1	0.0	0.0	0.0	0.0	7.1
Totals	7.1	0.0	0.0	0.0	0.0	7.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	7.6	0.0	0.0	0.0	0.0	7.6
Totals	7.6	0.0	0.0	0.0	0.0	7.6

As-Generated Form: Stored: 7.1 Projected: 0.0 Total: 7.1

Final Waste Form: Stored: 7.6 Projected: 0.0 Total: 7.6

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS METAL/IRON/GALVANIZED/SHEET, PLASTIC/POLYURETHANE, WOOD/LUMBER/PLYWOOD, CLOTH/RAGS/NYLON.
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled RCRA regulated mixed TRU waste with metal (Hg) contaminants from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W320	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Uncat met debris CH RCRA MTRU w/ met(Hg) cor
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal

Inventory Date: 12/1/94

Waste Matrix Code: S5300

AS-GENERATED EPA CODES

D009, D008, D007, D006, D005, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	9.3	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	193.8	0.0	0.0
Other Inorganic Material:	7.6	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	6.0	0.0	0.0
Rubber:	113.7	0.0	0.0
Plastics:	36.3	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	32.9		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	1.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.7	1.7	2.1	2.5	2.1	10.0
Totals	1.7	1.7	2.1	2.5	2.1	10.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.7	1.7	2.1	2.5	2.1	10.0
Totals	1.7	1.7	2.1	2.5	2.1	10.0

As-Generated Form: Stored: 1.7 Projected: 8.4 Total: 10.0

Final Waste Form: Stored: 1.7 Projected: 8.3 Total: 10.0

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS RUBBER, LEAD, PLASTIC/POLYURETHANE, DIRT/SOIL/DIATOMACEOUS EARTH, METAL/IRON/GALVANIZED/SHEET, LEAD SHIELDING, GLASS, CLOTH/RAGS/NYLON, HAZARDOUS CONSTITUENTS, PAPER/CARDBOARD, WOOD/LUMBER/PLYWOOD, MERCURY.
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled RCRA regulated mixed TRU waste with metal (Hg) corrosive contaminants from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W321	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Comb debris CH RCRA MTRU w/ met(Hg)	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Combustible	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

D009, D008, D007, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	16.4	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.2	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	4.4	0.0	0.0
Rubber:	102.7	0.0	0.0
Plastics:	73.5	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	38.1		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 2.1 Projected: 0.0 Total: 2.1

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS RUBBER, HAZARDOUS CONSTITUENTS, PLASTIC/POLYURETHANE, DIRT/SOIL/DIATOMACEOUS EARTH, METAL/IRON/GALVANIZED/SHEET, CLOTH/RAGS/NYLON, WOOD/LUMBER/PLYWOOD, GLASS, PAPER/CARDBOARD.
WASTE STREAM SOURCE	This stream is combustible contact handled RCRA regulated mixed TRU waste with metal (Hg) contaminants from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W322	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Comb debris CH RCRA MTRU w/ met(Hg) cor	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Combustible	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

D009, D008, D007, D006, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	2.4	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	2.2	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	8.1	0.0	0.0
Rubber:	17.4	0.0	0.0
Plastics:	46.8	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	6.8		
Packaging Material Plastic:	0.6		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.8	0.8	1.0	0.4	0.0	3.1
Totals	0.8	0.8	1.0	0.4	0.0	3.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	8.3	0.8	1.0	0.4	0.0	10.6
Totals	8.3	0.8	1.0	0.4	0.0	10.6

As-Generated Form: Stored: 0.8 Projected: 0.0 Total: 0.8

Final Waste Form: Stored: 8.3 Projected: 2.3 Total: 10.6

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS PLASTIC/POLYURETHANE, CONWEB PADS, HAZARDOUS CONSTITUENTS, RUBBER, DIRT/SOIL/DIATOMACEOUS EARTH, PAPER/CARDBOARD, ABSORBENT/KITY LTR/VERMICULITE, ACID, METAL/IRON/GALVANIZED/SHEET, CLOTH/RAGS/NYLON, MERCURY.
WASTE STREAM SOURCE	This stream is combustible contact handled RCRA regulated mixed TRU waste with metal (Hg) corrosive contaminants from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W323	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Soils debris CH RCRA MTRU w/ met(Hg)	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Soils	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

D009, D008, D007, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	29.1	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	2.8	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	21.8	0.0	0.0
Rubber:	38.6	0.0	0.0
Plastics:	19.4	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	61.4		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.6	1.0	0.4	0.0	2.7
Totals	0.6	0.6	1.0	0.4	0.0	2.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	6.2	0.6	1.0	0.4	0.0	8.3
Totals	6.2	0.6	1.0	0.4	0.0	8.3

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 6.2 Projected: 2.1 Total: 8.3

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS RUBBER, HAZARDOUS CONSTITUENTS, DIRT/SOIL/DIATOMACEOUS EARTH, PLASTIC/POLYURETHANE, METAL/IRON/GALVANIZED/SHEET, CLOTH/RAGS/NYLON, WOOD/LUMBER/PLYWOOD, GLASS, PAPER/CARDBOARD.
WASTE STREAM SOURCE	This stream is soils contact handled RCRA regulated mixed TRU waste with metal (Hg) contaminants from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W324	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Uncat met debris CH RCRA MTRU w/ cor	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	214.1	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	1.1	0.0	0.0
Rubber:	0.9	0.0	0.0
Plastics:	27.4	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	3.2	0.0	0.0	0.0	0.0	3.2
Totals	3.2	0.0	0.0	0.0	0.0	3.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8
Totals	3.8	0.0	0.0	0.0	0.0	3.8

As-Generated Form: Stored: 3.2 Projected: 0.0 Total: 3.2

Final Waste Form: Stored: 3.8 Projected: 0.0 Total: 3.8

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS PLASTIC/POLYURETHANE, METAL/IRON/GALVANIZED/SHEET, PAPER/CARDBOARD, RUBBER, CLOTH/RAGS/NYLON.
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled RCRA regulated mixed TRU waste with corrosive contaminants from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W325	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Comb debris CH RCRA MTRU w/ cor	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Combustible	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	10.5	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	65.9	0.0	0.0
Rubber:	14.3	0.0	0.0
Plastics:	16.7	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	23.9		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.4	0.4	0.4	0.0	1.7
Totals	0.4	0.4	0.4	0.4	0.0	1.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.4	0.4	0.4	0.0	1.7
Totals	0.4	0.4	0.4	0.4	0.0	1.7

As-Generated Form: Stored: 0.4 Projected: 1.3 Total: 1.7

Final Waste Form: Stored: 0.4 Projected: 1.2 Total: 1.7

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS CLOTH/RAGS/NYLON, PAPER/CARDBOARD, PLASTIC/POLYURETHANE, CHEMICALS, RUBBER, DIRT/SOIL/DIATOMACEOUS EARTH, METAL/IRON/GALVANIZED/SHEET, HAZARDOUS CONSTITUENTS.
WASTE STREAM SOURCE	This stream is combustible contact handled RCRA regulated mixed TRU waste with corrosive contaminants from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W326	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Solidif org labpacks CH RCRA MTRU w/ org ign	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Solidified Organics	Waste Matrix Code:	X6100

AS-GENERATED EPA CODES

D019, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	*0.0*	*0.0*	*0.0*
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	98.6	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	47.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	*0.0*	*0.0*	*0.0*
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	2.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.9	1.7	2.1	2.5	2.1	10.2
Totals	1.9	1.7	2.1	2.5	2.1	10.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.9	1.7	2.1	2.5	2.1	10.2
Totals	1.9	1.7	2.1	2.5	2.1	10.2

As-Generated Form: Stored: 1.9 Projected: 8.3 Total: 10.2

Final Waste Form: Stored: 1.9 Projected: 8.3 Total: 10.2

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS HAZARDOUS CONSTITUENTS, GLASS, ABSORBENT/KITY LTR/VERMICULITE, PLASTIC/POLYURETHANE, CONWEB PADS, ANTI-CORROSIVE RADPAD.
WASTE STREAM SOURCE	This stream is solidified organics contact handled RCRA regulated mixed TRU waste with organic ignitable contaminants from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W330	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Uncat met debris CH St MTRU	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	94.1	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	63.4	0.0	0.0
Rubber:	0.2	0.0	0.0
Plastics:	42.1	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	5.4		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

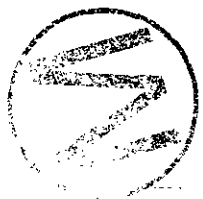
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	32.1	48.2	80.3	32.1	0.0	192.7
Totals	32.1	48.2	80.3	32.1	0.0	192.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	32.1	11.3	18.9	7.6	0.0	69.9
Totals	32.1	11.3	18.9	7.6	0.0	69.9

As-Generated Form: Stored: 32.1 Projected: 160.6 Total: 192.7

Final Waste Form: Stored: 32.1 Projected: 37.8 Total: 69.9



WASTE STREAM DESCRIPTION	THE STREAM CONTAINS METAL/IRON/GALVANIZED/SHEET, PLASTIC/POLYURETHANE, PAPER/CARDBOARD, WOOD/LUMBER/PLYWOOD, CLOTH/RAGS/NYLON, DIRT/SOIL/DIATOMACEOUS EARTH, HAZARDOUS CONSTITUENTS, RUBBER.
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled State regulated mixed TRU waste from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W331	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Comb debris CH St MTRU
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Combustible

Inventory Date: 12/1/94

Waste Matrix Code: S5300

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	21.7	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.1	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	45.5	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	21.4	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.1	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	7.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.5	2.7	3.1	2.9	2.1	14.4
Box	47.5	47.5	79.2	74.0	52.8	301.1
Totals	51.1	50.2	82.4	76.9	54.9	315.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.5	2.7	3.1	2.9	2.1	14.4
Standard Waste Box	47.3	17.0	28.3	26.5	18.9	138.0
Totals	50.8	19.7	31.5	29.4	21.0	152.3

As-Generated Form: Stored: 51.1 Projected: 264.4 Total: 315.5

Final Waste Form: Stored: 50.8 Projected: 101.5 Total: 152.3

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS WOOD/LUMBER/PLYWOOD, PLASTIC/POLYURETHANE, PAPER/CARDBOARD, METAL/IRON/GALVANIZED/SHEET, DIRT/SOIL/DIATOMACEOUS EARTH, FILTERS, HAZARDOUS CONSTITUENTS, PLEXIGLASS, ABSORBENT/KITY LTR/VERMICULITE, CEMENT, ANTI-CORROSIVE R
WASTE STREAM SOURCE	This stream is combustible contact handled State regulated mixed TRU waste from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W335	Handling:	CH	NMVP #:	N/A	Stream Name:	2718E Comb debris CH St MTRU	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Combustible	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	47.6	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	3.8	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Am-241	0.00E+00
Pu-241	0.00E+00
Pu-240	1.00E-02
Pu-239	7.00E-02
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Box	2.3	0.0	0.0	0.0	0.0	2.3
Totals	2.5	0.0	0.0	0.0	0.0	2.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9
Totals	4.0	0.0	0.0	0.0	0.0	4.0

As-Generated Form: Stored: 2.5 Projected: 0.0 Total: 2.5

Final Waste Form: Stored: 4.0 Projected: 0.0 Total: 4.0

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS FILTERS, PLASTIC/POLYURETHANE.
WASTE STREAM SOURCE	This stream is combustible contact handled State regulated mixed TRU waste from the PNL Critical Mass Storage Facility
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W336	Handling:	CH	NMVP #:	N/A	Stream Name:	318 Inorg non-met part CH St MTRU	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3110

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	19.7	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	46.5	0.0	0.0
Other Inorganic Material:	164.3	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	0.00E+00
Pu-240	0.00E+00
Pu-239	0.00E+00
Beta/Gamma	2.40E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.2	0.0	0.0	0.0	0.0	4.2
Totals	4.2	0.0	0.0	0.0	0.0	4.2

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 4.2 Projected: 0.0 Total: 4.2

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS ABSORBENT/KITY LTR/VERMICULITE, LEAD, METAL/IRON/GALVANIZED/SHEET, STAINLESS STEEL.
WASTE STREAM SOURCE	This stream is inorganic non-metal contact handled State regulated mixed TRU waste from the PNL Radiological Calibrations Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RL-W337 | Handling: RH | NMVP #: N/A | Stream Name: 324 Pb/Cd met RH St MTRU | Inventory Date: 12/1/94
Local ID: | Type: MTRU | Generator Site: RL | Final Waste Form: Lead/Cadmium Metal Waste | Waste Matrix Code: X7210

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	7.1	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	585.3	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	8.80E-01
Pu-240	1.00E-02
Pu-239	3.00E-02
Beta/Gamma	4.38E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.8	12.2	20.3	14.6	8.1	55.9
Totals	0.8	12.2	20.3	14.6	8.1	55.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.9	13.3	22.2	16.0	8.9	61.4
Totals	0.9	13.3	22.2	16.0	8.9	61.4

As-Generated Form: Stored: 0.8 Projected: 55.1 Total: 55.9

Final Waste Form: Stored: 0.9 Projected: 60.5 Total: 61.4

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS LEAD, ZIRCOLOY, METAL/IRON/GALVANIZED/SHEET.
WASTE STREAM SOURCE	This stream is lead cadmium metal remote handled State regulated mixed TRU waste from the PNL Chemical Engineering Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RL-W338
Local ID:

Handling: CH | NMVP #: N/A | Stream Name: 325 Solidif org CH RCRA MTRU w/ org met ign/cor | Inventory Date: 12/1/94
Type: MTRU | Generator Site: RL | Final Waste Form: Solidified Organics | Waste Matrix Code: S5300

AS-GENERATED EPA CODES

F003, D007, D002, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	121.8	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	78.1	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	18.7	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	9.00E-02
Pu-241	3.80E-01
Pu-240	1.00E-02
Pu-239	2.00E-02
Beta/Gamma	2.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS CONWEB PADS, ABSORBENT/KITY LTR/VERMICULITE, GLASS, LIQUID.
WASTE STREAM SOURCE	This stream is solidified organics contact handled RCRA regulated mixed TRU waste with organic metal ign/cor contaminants from the PNL Radiochemistry Building.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W339	Handling:	CH	NMVP #:	N/A	Stream Name:	325 Pb/Cd met lead CH RCRA MTRU w/ met(Hg)	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Lead/Cadmium Metal Waste	Waste Matrix Code:	X7210

AS-GENERATED EPA CODES

D009, D008, D006

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	585.4	0.0	0.0
Other Inorganic Material:	26.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	26.5	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	9.2	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	9.00E-02
Pu-241	3.80E-01
Pu-240	1.00E-02
Pu-239	2.00E-02
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.2	0.0	0.0	0.0	0.0	4.2
Totals	4.2	0.0	0.0	0.0	0.0	4.2

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 4.2 Projected: 0.0 Total: 4.2

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS LEAD, WOOD/LUMBER/PLYWOOD, GLASS, PLASTIC/POLYURETHANE, ABSORBENT/KITY LTR/VERMICULITE.
WASTE STREAM SOURCE	This stream is lead cadmium metal contact handled RCRA regulated mixed TRU waste with metal (Hg) contaminants from the PNL Radiochemistry Building.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W340	Handling:	CH	NMVP #:	N/A	Stream Name:	325 Comb debris CH RCRA MTRU w/ cor	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Combustible	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	21.9	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	80.8	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	2.4	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope (Ci/m3)	
Am-241	9.00E-02
Pu-241	3.80E-01
Pu-240	1.00E-02
Pu-239	2.00E-02
Beta/Gamma	7.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 2.1 Projected: 0.0 Total: 2.1

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS CONWEB PADS, PLASTIC/POLYURETHANE, ABSORBENT/KITY LTR/VERMICULITE, GLASS, LIQUID.
WASTE STREAM SOURCE	This stream is combustible contact handled RCRA regulated mixed TRU waste with cor contaminants from the PNL Radiochemistry Building.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W341	Handling:	CH	NMVP #:	N/A	Stream Name:	325A Uncat mt debris CH/r RCRA MTRU w/ org met(Hg)	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

F005, F004, F003, F002, F001, D009, D008, D007, D006, D005, D004

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	96.1	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	19.2	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	24.0	0.0	0.0
Rubber:	4.8	0.0	0.0
Plastics:	9.6	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.00E-02
Pu-241	5.00E-02
Pu-240	0.00E+00
Pu-239	0.00E+00
Beta/Gamma	3.97E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 2.1 Projected: 0.0 Total: 2.1

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS CLOTH/RAGS/NYLON, GLASS, METAL/IRON/GALVANIZED/SHEET, PLASTIC/POLYURETHANE, RUBBER.
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled packaged remote RCRA regulated mixed TRU waste with organic metal (Hg) contaminants from the PNL Cesium Recovery Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W342	Handling:	CH	NMVP #:	N/A	Stream Name:	325A Inorg n-mt debr CH/r RCRA MTRU w/org met(Hg)	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

F005, F004, F003, F002, F001, D009, D008, D007, D006, D005, D004

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	3.6	0.0	0.0
Aluminum-base Metal/Alloys:	0.6	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	117.7	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	28.8	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	40.2	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.00E-02
Pu-241	5.00E-02
Pu-240	0.00E+00
Pu-239	0.00E+00
Beta/Gamma	2.48E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	8.3	0.0	0.0	0.0	0.0	8.3
Totals	8.3	0.0	0.0	0.0	0.0	8.3

As-Generated Form: Stored: 0.8 Projected: 0.0 Total: 0.8

Final Waste Form: Stored: 8.3 Projected: 0.0 Total: 8.3

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS CLOTH/RAGS/NYLON, GLASS, PLASTIC/POLYURETHANE, CERAMICS, METAL/IRON/GALVANIZED/SHEET, ABSORBENT/KITY LTR/VERMICULITE, ALUMINUM.
WASTE STREAM SOURCE	This stream is inorganic non-metal contact handled packaged remote RCRA regulated mixed TRU waste with organic metal (Hg) contaminants from the PNL Cesium Recovery Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W343	Handling:	CH	NMVP #:	N/A	Stream Name:	325A Comb debris CH/r RCRA MTRU w/ org met(Hg)	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Combustible	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

F005, F004, F003, F002, F001, D009, D008, D007, D006, D005, D004

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	2.4	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	32.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	64.8	0.0	0.0
Rubber:	3.2	0.0	0.0
Plastics:	17.6	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.00E-02
Pu-241	5.00E-02
Pu-240	0.00E+00
Pu-239	0.00E+00
Beta/Gamma	1.63E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	6.2	0.0	0.0	0.0	0.0	6.2
Totals	6.2	0.0	0.0	0.0	0.0	6.2

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 6.2 Projected: 0.0 Total: 6.2

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS CLOTH/RAGS/NYLON, GLASS, PLASTIC/POLYURETHANE, CERAMICS, METAL/IRON/GALVANIZED/SHEET, RUBBER.
WASTE STREAM SOURCE	This stream is combustible contact handled packaged remote RCRA regulated mixed TRU waste with organic metal (Hg) contaminants from the PNL Cesium Recovery Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W344	Handling:	CH	NMVP #:	N/A	Stream Name:	340 Solidif org debris CH/r RCRA MTRU w/ org	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Solidified Organics	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

F005, F004, F003, F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	9.6	0.0	0.0
Rubber:	7.2	0.0	0.0
Plastics:	7.2	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	4.8		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	6.00E-02
Pu-241	5.00E-02
Pu-240	0.00E+00
Pu-239	0.00E+00
Beta/Gamma	1.84E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 2.1 Projected: 0.0 Total: 2.1

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS CLOTH/RAGS/NYLON, PLASTIC/POLYURETHANE, RUBBER, DIRT/SOIL/DIATOMACEOUS EARTH.
WASTE STREAM SOURCE	This stream is solidified organics contact handled packaged remote RCRA regulated mixed TRU waste with organic contaminants from the Waste Loadout Building.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RL-W345	Handling: CH	NMVP #: N/A	Stream Name: 2345Z Solidif org debris CH St MTRU		Inventory Date: 12/1/94
Local ID:	Type: MTRU	Generator Site: RL	Final Waste Form: Solidified Organics		Waste Matrix Code: S5300

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	29.3	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	48.4	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	126.5	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.00E-02
Pu-241	1.25E+01
Pu-240	4.20E-01
Pu-239	1.86E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.6	0.4	0.0	0.0	3.1
Totals	2.1	0.6	0.4	0.0	0.0	3.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.6	0.4	0.0	0.0	3.1
Totals	2.1	0.6	0.4	0.0	0.0	3.1

As-Generated Form:	Stored:	2.1	Projected:	1.0	Total:	3.1	Final Waste Form:	Stored:	2.1	Projected:	1.0	Total:	3.1

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS PLASTIC/POLYURETHANE, CONWEB PADS, ORGANICS, WOOD/LUMBER/PLYWOOD, ABSORBENT/KITY LTR/VERMICULITE.
WASTE STREAM SOURCE	This stream is solidified organics contact handled State regulated mixed TRU waste from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W346	Handling:	CH	NMVP #:	N/A	Stream Name:	308 Uncat mt debris CH RCRA MTRU w/ met	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	146.3	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	55.2	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	19.2	0.0	0.0
Rubber:	18.6	0.0	0.0
Plastics:	62.2	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	7.60E-01
Pu-241	2.33E+00
Pu-240	1.60E-01
Pu-239	6.10E-01
Beta/Gamma	1.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.2	0.0	0.0	0.0	0.0	4.2
Totals	4.2	0.0	0.0	0.0	0.0	4.2

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 4.2 Projected: 0.0 Total: 4.2

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS PLASTIC/POLYURETHANE, METAL/IRON/GALVANIZED/SHEET, EQUIPMENT, RUBBER, PAPER/CARDBOARD, STAINLESS STEEL, 10 MIL LINER, LEATHER.
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled RCRA regulated mixed TRU waste with metal contaminants from the Fuels Development Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W347	Handling:	CH	NMVP #:	N/A	Stream Name:	308 Combus debris CH RCRA MTRU w/ met(Hg)	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Combustible	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

D009

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	57.3	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	28.8	0.0	0.0
Rubber:	81.7	0.0	0.0
Plastics:	40.6	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	7.60E-01
Pu-241	2.33E+00
Pu-240	1.60E-01
Pu-239	6.10E-01
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 2.1 Projected: 0.0 Total: 2.1

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS PLASTIC/POLYURETHANE, METAL/IRON/GALVANIZED/SHEET, RUBBER, STAINLESS STEEL, CLOTH/RAGS/NYLON, PAPER/CARDBOARD, 10 MIL LINER.
WASTE STREAM SOURCE	This stream is combustible contact handled RCRA regulated mixed TRU waste with metal (Hg) contaminants from the Fuels Development Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W348	Handling:	CH	NMVP #:	N/A	Stream Name:	308 Solid org debris CH RCRA MTRU w/ met(Hg) cor	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Solidified Organics	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

D009, D002

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	1.0	0.0	0.0
Other Inorganic Material:	1.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	4.3	0.0	0.0
Plastics:	10.6	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	88.9	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	7.60E-01
Pu-241	2.33E+00
Pu-240	1.60E-01
Pu-239	6.10E-01
Beta/Gamma	2.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 2.1 Projected: 0.0 Total: 2.1

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS ANIMAL WASTE, 10 MIL LINER, RUBBER, BATTERIES, GLASS.
WASTE STREAM SOURCE	This stream is solidified organics contact handled RCRA regulated mixed TRU waste with metal (Hg) cor contaminants from the Fuels Development Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W349	Handling:	CH	NMVP #:	N/A	Stream Name:	308 inorg non-met CH RCRA MTRU w/ met	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Lead/Cadmium Metal Waste	Waste Matrix Code:	X7210

AS-GENERATED EPA CODES

D008

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	1380.9	0.0	0.0
Other Inorganic Material:	38.4	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	87.9	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	91.7	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	7.60E-01
Pu-241	2.33E+00
Pu-240	1.60E-01
Pu-239	6.10E-01
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 2.1 Projected: 0.0 Total: 2.1

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS LEAD, CLOTH/RAGS/NYLON, 10 MIL LINER, GLASS.
WASTE STREAM SOURCE	This stream is inorganic non-metal contact handled RCRA regulated mixed TRU waste from the Fuels Development Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W350	Handling:	CH	NMVP #:	N/A	Stream Name:	308 Uncat met debris CH St MTRU	Inventory Date:	12/1/94
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	62.8	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	18.6	0.0	0.0
Other Inorganic Material:	44.6	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	19.4	0.0	0.0
Rubber:	26.9	0.0	0.0
Plastics:	43.9	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	7.60E-01
Pu-241	2.33E+00
Pu-240	1.60E-01
Pu-239	6.10E-01
Beta/Gamma	2.40E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 2.1 Projected: 0.0 Total: 2.1

WASTE STREAM DESCRIPTION	THE STREAM CONTAINS PLASTIC/POLYURETHANE, STAINLESS STEEL, RUBBER, CERAMICS, PAPER/CARDBOARD, GLASS, CLOTH/RAGS/NYLON, LEAD, ABSORBENT/KITY LTR/VERMICULITE.
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled State regulated mixed TRU waste from the Fuels Development Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W351	Handling:	CH	NMVP #:	N/A	Stream Name:	CUPRC Soil CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Soils	Waste Matrix Code:	S4300

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	4.8	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	3.9	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	23.4	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	256.4		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	0.00E+00
Pu-240	0.00E+00
Pu-239	0.00E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS ROCK/GRAVEL, PLASTIC/POLYURETHANE, METAL/IRON/GALVANIZED/SHEET, ABSORBENT/KITY LTR/VERMICULITE.
WASTE STREAM SOURCE	This stream is soils contact handled non-mixed TRU waste from the Ceer University Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W352	Handling:	CH	NMVP #:	N/A	Stream Name:	CUPRC Inorg non-met debris CH TRU
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Inorganic Non-Metal

Inventory Date: 12/1/94

Waste Matrix Code: S5120

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	23.7	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	463.5	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	0.00E+00
Pu-240	0.00E+00
Pu-239	0.00E+00
Beta/Gamma	2.40E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS CONCRETE, METAL/IRON/GALVANIZED/SHEET.
WASTE STREAM SOURCE	This stream is inorganic non-metal contact handled non-mixed TRU waste from the Ceer University Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are complied from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W353	Handling:	CH	NMVP #:	N/A	Stream Name:	ESG Inorg non-met part CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3110

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	8.9	0.0	0.0
Aluminum-base Metal/Alloys:	2.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	164.2	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	12.7	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No.

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	2.91E+01
Pu-240	1.08E+00
Pu-239	4.82E+00
Beta/Gamma	2.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

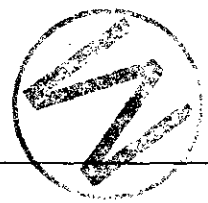
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.8	0.0	0.0	0.0	0.0	0.8
Totals	0.8	0.0	0.0	0.0	0.0	0.8

As-Generated Form: Stored: 0.8 Projected: 0.0 Total: 0.8

Final Waste Form: Stored: 0.8 Projected: 0.0 Total: 0.8



WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS ABSORBENT/KITY LTR/VERMICULITE, PAPER/CARDBOARD, METAL/IRON/GALVANIZED/SHEET, GLASS, ALUMINUM.
WASTE STREAM SOURCE	This stream is inorganic non-metal contact handled non-mixed TRU waste from the Energy Systems Group.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W354	Handling:	CH	NMVP #:	N/A	Stream Name:	ESG Soil CH/r TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Soils	Waste Matrix Code:	S4000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	17.4	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	138.2	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	185.2		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	2.91E+01
Pu-240	1.08E+00
Pu-239	4.82E+00
Beta/Gamma	1.71E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS DIRT/SOIL/DIATOMACEOUS EARTH, CEMENT, ABSORBENT/KITY LTR/VERMICULITE.
WASTE STREAM SOURCE	This stream is soils contact handled packaged remote non-mixed TRU waste from the Energy Systems Group.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W355	Handling:	CH	NMVP #:	N/A	Stream Name:	ESG Uncat met debris CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5110

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	268.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.2	0.0	0.0
Other Metals/Alloys:	1.0	0.0	0.0
Other Inorganic Material:	17.7	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	2.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	2.1	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	2.91E+01
Pu-240	1.08E+00
Pu-239	4.82E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.0	0.0	0.0	0.0	2.1
Totals	2.1	0.0	0.0	0.0	0.0	2.1

As-Generated Form: Stored: 2.1 Projected: 0.0 Total: 2.1

Final Waste Form: Stored: 2.1 Projected: 0.0 Total: 2.1

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS STAINLESS STEEL, METAL/IRON/GALVANIZED/SHEET, GRAPHITE, FILTERS, PLASTIC/POLYURETHANE, COPPER METAL, GLASS, ALUMINUM.
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled non-mixed TRU waste from the Energy Systems Group.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W356	Handling:	CH	NMVP #:	N/A	Stream Name:	ESG Comb debris CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Combustible	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	10.0	0.0	0.0
Aluminum-base Metal/Alloys:	4.9	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	67.3	0.0	0.0
Rubber:	68.8	0.0	0.0
Plastics:	14.6	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	7.5	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	2.91E+01
Pu-240	1.08E+00
Pu-239	4.82E+00
Beta/Gamma	1.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.3	0.0	0.0	0.0	0.0	1.3
Totals	1.3	0.0	0.0	0.0	0.0	1.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.2	0.0	0.0	0.0	0.0	1.2
Totals	1.2	0.0	0.0	0.0	0.0	1.2

As-Generated Form: Stored: 1.3 Projected: 0.0 Total: 1.3

Final Waste Form: Stored: 1.2 Projected: 0.0 Total: 1.2

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS RUBBER, COTTON/KOTEX, WOOD/LUMBER/PLYWOOD, PLASTIC/POLYURETHANE, CLOTH/RAGS/NYLON, PAPER/CARDBOARD, PAINTS/LUCITE, ALUMINUM, METAL/IRON/GALVANIZED/SHEET, STAINLESS STEEL.
WASTE STREAM SOURCE	This stream is combustible contact handled non-mixed TRU waste from the Energy Systems Group.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W358	Handling:	CH	NMVP #:	N/A	Stream Name:	MCGEE Inorg non-met debris CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	59.5	0.0	0.0
Aluminum-base Metal/Alloys:	3.9	0.0	0.0
Other Metals/Alloys:	1.0	0.0	0.0
Other Inorganic Material:	174.5	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	14.2	0.0	0.0
Rubber:	2.5	0.0	0.0
Plastics:	16.7	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	1.74E+00
Pu-240	6.00E-02
Pu-239	2.90E-01
Beta/Gamma	2.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.5	0.0	0.0	0.0	0.0	2.5
Totals	2.5	0.0	0.0	0.0	0.0	2.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.5	0.0	0.0	0.0	0.0	2.5
Totals	2.5	0.0	0.0	0.0	0.0	2.5

As-Generated Form: Stored: 2.5 Projected: 0.0 Total: 2.5

Final Waste Form: Stored: 2.5 Projected: 0.0 Total: 2.5

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS CONCRETE, ABSORBENT/KITY LTR/VERMICULITE, STAINLESS STEEL, FILTERS, PLASTIC/POLYURETHANE, SAND, METAL/IRON/GALVANIZED/SHEET, WOOD/LUMBER/PLYWOOD, ALUMINUM, RUBBER, PAPER/CARDBOARD, COPPER METAL.
WASTE STREAM SOURCE	This stream is inorganic non-metal contact handled non-mixed TRU waste from the Kerr-McGee.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W359	Handling:	CH	NMVP #:	N/A	Stream Name:	MCGEE Uncat met debris CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	156.1	0.0	0.0
Aluminum-base Metal/Alloys:	4.0	0.0	0.0
Other Metals/Alloys:	0.6	0.0	0.0
Other Inorganic Material:	9.8	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	13.7	0.0	0.0
Rubber:	3.1	0.0	0.0
Plastics:	32.7	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	3.5	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	1.74E+00
Pu-240	6.00E-02
Pu-239	2.90E-01
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	16.6	0.0	0.0	0.0	0.0	16.6
Totals	16.6	0.0	0.0	0.0	0.0	16.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	16.6	0.0	0.0	0.0	0.0	16.6
Totals	16.6	0.0	0.0	0.0	0.0	16.6

As-Generated Form: Stored: 16.6 Projected: 0.0 Total: 16.6

Final Waste Form: Stored: 16.6 Projected: 0.0 Total: 16.6

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS STAINLESS STEEL, PLASTIC/POLYURATHENE, METAL/IRON/GALVANIZED/SHEET, FILTERS, PAPER/CARDBOARD, ALUMINUM, RUBBER, WOOD/LUMBER/PLYWOOD, CONCRETE, ABSORBENT/KITY LTR/VERMICULITE, RESINS, SAND, COPPER METAL, FIBERGLASS, FLOO
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled non-mixed TRU waste from the Kerr-McGee.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W360	Handling:	CH	NMVP #:	N/A	Stream Name:	MCGEE Comb debris CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Combustible	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	37.3	0.0	0.0
Aluminum-base Metal/Alloys:	0.8	0.0	0.0
Other Metals/Alloys:	0.2	0.0	0.0
Other Inorganic Material:	20.1	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	12.5	0.0	0.0
Rubber:	1.1	0.0	0.0
Plastics:	97.1	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	7.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	6.4	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	1.74E+00
Pu-240	6.00E-02
Pu-239	2.90E-01
Beta/Gamma	1.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.8	0.0	0.0	0.0	0.0	4.8
Totals	4.8	0.0	0.0	0.0	0.0	4.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.8	0.0	0.0	0.0	0.0	4.8
Totals	4.8	0.0	0.0	0.0	0.0	4.8

As-Generated Form: Stored: 4.8 Projected: 0.0 Total: 4.8

Final Waste Form: Stored: 4.8 Projected: 0.0 Total: 4.8

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS PLASTIC/POLYURETHANE, STAINLESS STEEL, WOOD/LUMBER/PLYWOOD, FILTERS, METAL/IRON/GALVANIZED/SHEET, CONCRETE, SLUDGES, PAPER/CARDBOARD, ABSORBENT/KITY LTR/VERMICULITE, RESINS, RUBBER, ALUMINUM, FIBERGLASS, GLASS, COPPER M
WASTE STREAM SOURCE	This stream is combustible contact handled non-mixed TRU waste from the Kerr-McGee.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W361	Handling:	CH	NMVP #:	N/A	Stream Name:	MCGEE Solidif org CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Solidified Organics	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	18.1	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	20.6	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	42.3	0.0	0.0
Rubber:	1.8	0.0	0.0
Plastics:	15.1	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	137.2	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	1.74E+00
Pu-240	6.00E-02
Pu-239	2.90E-01
Beta/Gamma	2.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

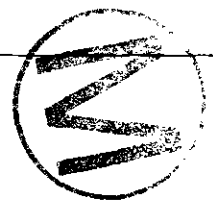
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 0.6 Projected: 0.0 Total: 0.6



WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS FILTERS, RESINS, WOOD/LUMBER/PLYWOOD, ABSORBENT/KITY LTR/VERMICULITE, PLASTIC/POLYURETHANE, METAL/IRON/GALVANIZED/SHEET, STAINLESS STEEL, RUBBER.
WASTE STREAM SOURCE	This stream is solidified organics contact handled non-mixed TRU waste from the Kerr-McGee.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RL-W362 | Handling: CH | NMVP #: N/A | Stream Name: 202A Uncat met debris CH TRU | Inventory Date: 12/1/94
Local ID: | Type: TRU | Generator Site: RL | Final Waste Form: Uncategorized Metal | Waste Matrix Code: S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	142.8	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	49.8	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	9.0	0.0	0.0
Rubber:	2.4	0.0	0.0
Plastics:	51.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	1.00E-02
Pu-241	4.05E+01
Pu-240	1.32E+00
Pu-239	5.70E+00
Beta/Gamma	3.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.9	2.1	0.0	0.0	0.0	5.0
Totals	2.9	2.1	0.0	0.0	0.0	5.0

As-Generated Form: Stored: 2.9 Projected: 2.1 Total: 5.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.9	2.1	0.0	0.0	0.0	5.0
Totals	2.9	2.1	0.0	0.0	0.0	5.0

Final Waste Form: Stored: 2.9 Projected: 2.1 Total: 5.0

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS PLASTIC/POLYURETHANE, METAL/IRON/GALVANIZED/SHEET, ABSORBENT/KITY LTR/VERMICULITE, CLOTH/RAGS/NYLON, PAPER/CARDBOARD, RUBBER, GLASS, WOOD/LUMBER/PLYWOOD.
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled non-mixed TRU waste from the Fuel Reprocessing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W363	Handling:	CH	NMVP #:	N/A	Stream Name:	202A Pb/Cd met unk form CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	U9999

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	98.7	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	10.8	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	1.00E-02
Pu-241	4.05E+01
Pu-240	1.32E+00
Pu-239	5.70E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.2	0.0	0.0	0.0	0.4
Totals	0.2	0.2	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.2	0.0	0.0	0.0	0.4
Totals	0.2	0.2	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.2 Total: 0.4

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS EQUIPMENT, FILTERS.
WASTE STREAM SOURCE	This stream is lead cadmium metal contact handled non-mixed TRU waste from the Fuel Reprocessing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W364	Handling:	CH	NMVP #:	N/A	Stream Name:	202A Inorg non-met debris CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	21.9	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	61.9	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	22.6	0.0	0.0
Rubber:	2.0	0.0	0.0
Plastics:	26.9	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	1.00E-02
Pu-241	4.05E+01
Pu-240	1.32E+00
Pu-239	5.70E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	1.5	0.0	0.0	0.0	3.6
Totals	2.1	1.5	0.0	0.0	0.0	3.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	1.5	0.0	0.0	0.0	3.5
Totals	2.1	1.5	0.0	0.0	0.0	3.5

As-Generated Form: Stored: 2.1 Projected: 0.0 Total: 2.1

Final Waste Form: Stored: 2.1 Projected: 1.5 Total: 3.5

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS PLASTIC/POLYURETHANE, PAPER/CARDBOARD, GLASS, METAL/IRON/GALVANIZED/SHEET, ABSORBENT/KITY LTR/VERMICULITE, RUBBER, CLOTH/RAGS/NYLON, WOOD/LUMBER/PLYWOOD, COTTON/KOTEX, CORK.
WASTE STREAM SOURCE	This stream is inorganic non-metal contact handled non-mixed TRU waste from the Fuel Reprocessing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W365	Handling:	CH	NMVP #:	N/A	Stream Name:	202A Comb debris CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Combustible	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	12.2	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.1	0.0	0.0
Other Inorganic Material:	17.6	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	42.9	0.0	0.0
Rubber:	8.5	0.0	0.0
Plastics:	60.3	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	1.00E-02
Pu-241	4.05E+01
Pu-240	1.32E+00
Pu-239	5.70E+00
Beta/Gamma	9.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	11.8	8.0	0.0	0.0	0.0	19.7
Totals	11.8	8.0	0.0	0.0	0.0	19.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	11.9	7.9	0.0	0.0	0.0	19.8
Totals	11.9	7.9	0.0	0.0	0.0	19.8

As-Generated Form: Stored: 11.8 Projected: 0.0 Total: 11.8

Final Waste Form: Stored: 11.9 Projected: 7.9 Total: 19.8

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS PLASTIC/POLYURETHANE, PAPER/CARDBOARD, GLASS, RUBBER, CLOTH/RAGS/NYLON, METAL/IRON/GALVANIZED/SHEET, WOOD/LUMBER/PLYWOOD, ABSORBENT/KITY LTR/VERMICULITE, STAINLESS STEEL, LEATHER, COTTON/KOTEX, CORK, LEAD.
WASTE STREAM SOURCE	This stream is combustible contact handled non-mixed TRU waste from the Fuel Reprocessing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W367	Handling:	CH	NMVP #:	N/A	Stream Name:	202AL Inorg non-met debris CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	14.8	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	52.2	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	21.6	0.0	0.0
Rubber:	1.0	0.0	0.0
Plastics:	24.7	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Analytical Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	4.58E+00
Pu-240	1.70E-01
Pu-239	7.60E-01
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

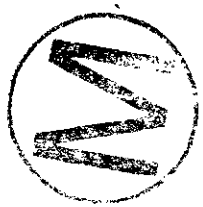
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.9	2.1	0.0	0.0	0.0	5.0
Totals	2.9	2.1	0.0	0.0	0.0	5.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.9	2.1	0.0	0.0	0.0	5.0
Totals	2.9	2.1	0.0	0.0	0.0	5.0

As-Generated Form: Stored: 2.9 Projected: 0.0 Total: 2.9

Final Waste Form: Stored: 2.9 Projected: 2.1 Total: 5.0



WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS PLASTIC/POLYURETHANE, PAPER/CARDBOARD, GLASS, METAL/IRON/GALVANIZED/SHEET, RUBBER, CLOTH/RAGS/NYLON.
WASTE STREAM SOURCE	This stream is inorganic non-metal contact handled non-mixed TRU waste from the Fuel Reprocessing Facility Support Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W368	Handling:	CH	NMVP #:	N/A	Stream Name:	202AL Comb debris CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Combustible	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	7.8	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	23.7	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	23.0	0.0	0.0
Rubber:	1.0	0.0	0.0
Plastics:	30.4	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Analytical Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	4.58E+00
Pu-240	1.70E-01
Pu-239	7.60E-01
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.6	0.0	0.0	0.0	1.3
Totals	0.6	0.6	0.0	0.0	0.0	1.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.6	0.0	0.0	0.0	1.2
Totals	0.6	0.6	0.0	0.0	0.0	1.2

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 0.6 Projected: 0.6 Total: 1.2

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS PLASTIC/POLYURETHANE, PAPER/CARDBOARD, GLASS, METAL/IRON/GALVANIZED/SHEET, RUBBER.
WASTE STREAM SOURCE	This stream is combustible contact handled non-mixed TRU waste from the Fuel Reprocessing Facility Support Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RL-W369 | Handling: CH | NMVP #: N/A | Stream Name: 209E Uncat met debris CH TRU | Inventory Date: 12/1/94
Local ID: | Type: TRU | Generator Site: RL | Final Waste Form: Uncategorized Metal | Waste Matrix Code: S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	81.1	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.3	0.0	0.0
Other Inorganic Material:	0.7	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	4.4	0.0	0.0
Rubber:	1.1	0.0	0.0
Plastics:	14.3	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	1.20E-01
Pu-241	2.49E+01
Pu-240	9.10E-01
Pu-239	3.96E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	10.8	34.0	50.2	46.6	35.8	177.4
Box	22.4	0.0	0.0	0.0	0.0	22.4
Totals	33.1	34.0	50.2	46.6	35.8	199.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	10.8	4.0	5.8	5.4	4.2	30.2
Standard Waste Box	22.7	0.0	0.0	0.0	0.0	22.7
Totals	33.5	4.0	5.8	5.4	4.2	52.8

As-Generated Form: Stored: 33.1 Projected: 166.6 Total: 199.8

Final Waste Form: Stored: 33.5 Projected: 19.3 Total: 52.8

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS METAL/IRON/GALVANIZED/SHEET, PLASTIC/POLYURETHANE, CLOTH/RAGS/NYLON, PAPER/CARDBOARD, PLEXIGLASS, FOAM/STYROFOAM/PYROFOAM, RUBBER, GLASS, STAINLESS STEEL, FIBERGLASS, WOOD/LUMBER/PLYWOOD, BRASS METAL.
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled non-mixed TRU waste from the Facility/Equipment O&M Waste.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W370	Handling:	CH	NMVP #:	N/A	Stream Name:	209E Uncat met debris CH/r TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	146.3	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	31.6	0.0	0.0
Rubber:	20.6	0.0	0.0
Plastics:	19.8	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	1.20E-01
Pu-241	2.49E+01
Pu-240	9.10E-01
Pu-239	3.96E+00
Beta/Gamma	5.10E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS STAINLESS STEEL, METAL/IRON/GALVANIZED/SHEET, CLOTH/RAGS/NYLON, PLASTIC/POLYURETHANE, RUBBER, PAPER/CARDBOARD.
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled packaged remote non-mixed TRU waste from the Facility/Equipment O&M Waste.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W371	Handling:	CH	NMVP #:	N/A	Stream Name:	209E Comb debris CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Combustible	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	3.5	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	14.1	0.0	0.0
Rubber:	11.0	0.0	0.0
Plastics:	39.5	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	1.20E-01
Pu-241	2.49E+01
Pu-240	9.10E-01
Pu-239	3.96E+00
Beta/Gamma	5.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.3	0.8	1.0	0.4	0.0	4.6
Box	3.2	0.0	0.0	0.0	0.0	3.2
Totals	5.5	0.8	1.0	0.4	0.0	7.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.3	0.8	1.0	0.4	0.0	4.6
Standard Waste Box	3.8	0.0	0.0	0.0	0.0	3.8
Totals	6.1	0.8	1.0	0.4	0.0	8.4

As-Generated Form:	Stored:	5.5	Projected:	2.3	Total:	7.8	Final Waste Form:	Stored:	6.1	Projected:	2.3	Total:	8.4

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS PLASTIC/POLYURETHANE, CLOTH/RAGS/NYLON, RUBBER, FOAM/STYROFOAM/PYROFOAM, FIBERGLASS, PAPER/CARDBOARD, WOOD/LUMBER/PLYWOOD, STAINLESS STEEL, METAL/IRON/GALVANIZED/SHEET.
WASTE STREAM SOURCE	This stream is combustible contact handled non-mixed TRU waste from the Facility/Equipment O&M Waste.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W372	Handling:	CH	NMVP #:	N/A	Stream Name:	209E Comb debris CH/r TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Combustible	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	38.3	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	103.0	0.0	0.0
Rubber:	3.6	0.0	0.0
Plastics:	5.1	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	1.20E-01
Pu-241	2.49E+01
Pu-240	9.10E-01
Pu-239	3.96E+00
Beta/Gamma	2.90E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS PAPER/CARDBOARD, CLOTH/RAGS/NYLON, METAL/IRON/GALVANIZED/SHEET, STAINLESS STEEL, PLASTIC/POLYURETHANE, RUBBER.
WASTE STREAM SOURCE	This stream is combustible contact handled packaged remote non-mixed TRU waste from the Facility/Equipment O&M Waste.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W373	Handling:	CH	NMVP #:	N/A	Stream Name:	231Z Uncat met unk form CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	U9999

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	68.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.1	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	4.3	0.0	0.0
Rubber:	1.0	0.0	0.0
Plastics:	13.4	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	1.00E-02
Pu-241	4.80E-01
Pu-240	2.00E-02
Pu-239	7.00E-02
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.8	0.6	0.6	0.0	0.0	2.1
Box	78.4	0.0	0.0	0.0	0.0	78.4
Totals	79.2	0.6	0.6	0.0	0.0	80.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.8	0.6	0.6	0.0	0.0	2.1
Standard Waste Box	79.4	0.0	0.0	0.0	0.0	79.4
Totals	80.2	0.6	0.6	0.0	0.0	81.5

As-Generated Form: Stored: 79.2 Projected: 0.0 Total: 79.2

Final Waste Form: Stored: 80.2 Projected: 1.2 Total: 81.5

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS AIR, METAL/IRON/GALVANIZED/SHEET, PLASTIC/POLYURETHANE, WOOD/LUMBER/PLYWOOD, RUBBER, GLASS, ABSORBENT/KITY LTR/VERMICULITE, LIQUID, CLOTH/RAGS/NYLON, DIRT/SOIL/DIATOMACEOUS EARTH.
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled non-mixed TRU waste from the PNL Materials Engineering Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RL-W374 | Handling: CH | NMVP #: N/A | Stream Name: 2345Z Uncat met debris CH TRU | Inventory Date: 12/1/94
Local ID: | Type: TRU | Generator Site: RL | Final Waste Form: Uncategorized Metal | Waste Matrix Code: S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	45.4	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.2	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	9.3	0.0	0.0
Rubber:	4.8	0.0	0.0
Plastics:	17.3	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.1	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	5.2		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	9.00E-02
Pu-241	2.11E+01
Pu-240	7.60E-01
Pu-239	3.37E+00
Beta/Gamma	2.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	74.7	48.0	67.8	75.5	60.5	326.6
Box	107.6	33.6	0.0	215.2	269.0	625.3
Totals	182.3	81.6	67.8	290.7	329.5	952.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	74.7	47.8	67.6	75.3	60.3	325.7
Standard Waste Box	107.7	9.4	0.0	60.5	75.6	253.3
Totals	182.4	57.3	67.6	135.8	135.9	579.0

As-Generated Form: Stored: 182.3 Projected: 769.7 Total: 952.0

Final Waste Form: Stored: 182.4 Projected: 396.6 Total: 579.0

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS METAL/IRON/GALVANIZED/SHEET, PLASTIC/POLYURETHANE, PAPER/CARDBOARD, DIRT/SOIL/DIATOMACEOUS EARTH, RUBBER, CLOTH/RAGS/NYLON, WOOD/LUMBER/PLYWOOD, GLASS, STAINLESS STEEL, PPE CLOTHING (PAPER/PLASTIC), CERAMICS, CONWEB PAD
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled non-mixed TRU waste from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W375	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Uncat met debris CH/r TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	44.3	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	12.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	19.8	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	9.00E-02
Pu-241	2.11E+01
Pu-240	7.60E-01
Pu-239	3.37E+00
Beta/Gamma	1.38E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.8	0.6	1.0	0.4	0.0	2.9
Box	21.1	10.6	0.0	84.4	105.5	221.6
Totals	21.9	11.2	1.0	84.8	105.5	224.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.8	0.6	1.0	0.4	0.0	2.9
Standard Waste Box	20.8	1.9	0.0	15.1	18.9	56.7
Totals	21.6	2.5	1.0	15.5	18.9	59.6

As-Generated Form:	Stored:	21.9	Projected:	202.5	Total:	224.5	Final Waste Form:	Stored:	21.6	Projected:	38.0	Total:	59.6

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS METAL/IRON/GALVANIZED/SHEET, PLASTIC/POLYURETHANE, PAPER/CARDBOARD, CLOTH/RAGS/NYLON, WOOD/LUMBER/PLYWOOD, RUBBER, DIRT/SOIL/DIATOMACEOUS EARTH.
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled packaged remote non-mixed TRU waste from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W376	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Inorg non-met debris CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	10.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	134.8	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	16.5	0.0	0.0
Rubber:	11.7	0.0	0.0
Plastics:	31.9	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	19.3		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	9.00E-02
Pu-241	2.11E+01
Pu-240	7.60E-01
Pu-239	3.37E+00
Beta/Gamma	1.00E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	16.1	10.5	14.6	15.9	12.6	69.7
Totals	16.1	10.5	14.6	15.9	12.6	69.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	16.2	10.4	14.6	15.8	12.5	69.5
Totals	16.2	10.4	14.6	15.8	12.5	69.5

As-Generated Form:	Stored:	16.1	Projected:	53.6	Total:	69.7	Final Waste Form:	Stored:	16.2	Projected:	53.2	Total:	69.5

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS GLASS, CONCRETE, PLASTIC/POLYURETHANE, PAPER/CARDBOARD, DIRT/SOIL/DIATOMACEOUS EARTH, RUBBER, METAL/IRON/GALVANIZED/SHEET, CLOTH/RAGS/NYLON, ASBESTOS, CERAMICS, WOOD/LUMBER/PLYWOOD.
WASTE STREAM SOURCE	This stream is inorganic non-metal contact handled non-mixed TRU waste from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RL-W377 | Handling: CH | NMVP #: N/A | Stream Name: 2345Z Comb debris CH TRU | Inventory Date: 12/1/94
Local ID: | Type: TRU | Generator Site: RL | Final Waste Form: Combustible | Waste Matrix Code: S5300

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	16.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	3.8	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	44.2	0.0	0.0
Rubber:	20.0	0.0	0.0
Plastics:	51.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.3	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	12.7		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	9.00E-02
Pu-241	2.11E+01
Pu-240	7.60E-01
Pu-239	3.37E+00
Beta/Gamma	6.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	292.4	187.7	264.8	296.8	238.3	1279.9
Box	10.5	3.5	0.0	28.1	35.1	77.3
Totals	302.9	191.2	264.8	324.9	273.4	1357.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55-Gallon Drum	292.4	186.8	263.5	295.4	237.1	1275.2
Standard Waste Box	11.3	1.9	0.0	15.1	18.9	47.2
Totals	303.8	188.7	263.5	310.5	256.0	1322.5

As-Generated Form: Stored: 302.9 | Projected: 1054.3 | Total: 1357.2

Final Waste Form: Stored: 303.8 | Projected: 1018.7 | Total: 1322.5

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS PLASTIC/POLYURETHANE, PAPER/CARDBOARD, CLOTH/RAGS/NYLON, RUBBER, METAL/IRON/GALVANIZED/SHEET, DIRT/SOIL/DIATOMACEOUS EARTH, GLASS, PPE CLOTHING (PAPER/PLASTIC), WOOD/LUMBER/PLYWOOD, STAINLESS STEEL, CONWEB PADS, SLUDGES
WASTE STREAM SOURCE	This stream is combustible contact handled non-mixed TRU waste from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W378	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Comb debris CH/r TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Combustible	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	24.2	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.1	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.8	0.0	0.0
Rubber:	0.5	0.0	0.0
Plastics:	36.3	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.2		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	9.00E-02
Pu-241	2.11E+01
Pu-240	7.60E-01
Pu-239	3.37E+00
Beta/Gamma	1.03E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.7	1.3	2.1	2.5	2.1	9.6
Box	14.1	14.1	0.0	112.8	141.0	282.0
Totals	15.8	15.4	2.1	115.3	143.1	291.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.7	1.2	2.1	2.5	2.1	9.6
Standard Waste Box	15.1	1.9	0.0	15.1	18.9	51.0
Totals	16.8	3.1	2.1	17.6	21.0	60.6

As-Generated Form:	Stored:	15.8	Projected:	275.8	Total:	291.6	Final Waste Form:	Stored:	16.8	Projected:	43.8	Total:	60.6

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS PLASTIC/POLYURETHANE, METAL/IRON/GALVANIZED/SHEET, CLOTH/RAGS/NYLON, RUBBER, PAPER/CARDBOARD, DIRT/SOIL/DIATOMACEOUS EARTH, GLASS, WOOD/LUMBER/PLYWOOD.
WASTE STREAM SOURCE	This stream is combustible contact handled packaged remote non-mixed TRU waste from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W379	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Heter debris CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	35.6	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	2.7	0.0	0.0
Rubber:	12.6	0.0	0.0
Plastics:	42.5	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	331.6	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	26.8		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	9.00E-02
Pu-241	2.11E+01
Pu-240	7.60E-01
Pu-239	3.37E+00
Beta/Gamma	2.40E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS CEMENT, PLASTIC/POLYURETHANE, METAL/IRON/GALVANIZED/SHEET, DIRT/SOIL/DIATOMACEOUS EARTH, RUBBER, CLOTH/RAGS/NYLON.
WASTE STREAM SOURCE	This stream is hetergeneous contact handled non-mixed TRU waste from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W380	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Solidif org debris CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Solidified Organics	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	9.6	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	28.8	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	96.2	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	134.6	0.0	0.0
Packaging Material Steel:	28.8		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	9.00E-02
Pu-241	2.11E+01
Pu-240	7.60E-01
Pu-239	3.37E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS PLASTIC/POLYURETHANE, WAX, DIRT/SOIL/DIATOMACEOUS EARTH, CLOTH/RAGS/NYLON, METAL/IRON/GALVANIZED/SHEET, PAPER/CARDBOARD.
WASTE STREAM SOURCE	This stream is solidified organics contact handled non-mixed TRU waste from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TWBIR ID: **RL-W381**

Appendix P

TRU WASTE BASELINE INVENTORY WASTE PROFILE

DOE/CAO-95-112

HQ ID: RL-W381
Local ID:

Handling: CH
Type: TRU

NMVP #: N/A
Generator Site: RL

Stream Name: 2345Z Soil debris CH TRU
Final Waste Form: Soils

AS-GENERATED EPA CODES
N/A

TRUCON CODE
N/A

Inventory Date: 12/1/94
Waste Matrix Code: S5300

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	12.7	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	15.6	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	28.0	0.0	0.0
Rubber:	14.4	0.0	0.0
Plastics:	30.8	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	49.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	9.00E-02
Pu-241	2.11E+01
Pu-240	7.60E-01
Pu-239	3.37E+00
Beta/Gamma	7.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	6.3	3.8	6.3	7.5	6.3	30.1
Totals	6.3	3.8	6.3	7.5	6.3	30.1

As-Generated Form: Stored: 6.3 Projected: 23.8 Total: 30.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	6.2	3.7	6.2	7.5	6.2	30.0
Totals	6.2	3.7	6.2	7.5	6.2	30.0

Final Waste Form: Stored: 6.2 Projected: 23.7 Total: 30.0

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS DIRT/SOIL/DIATOMACEOUS EARTH, PLASTIC/POLYURETHANE, PAPER/CARDBOARD, GLASS, RUBBER, METAL/IRON/GALVANIZED/SHEET, CLOTH/RAGS/NYLON, PPE CLOTHING (PAPER/PLASTIC), CORK, WOOD/LUMBER/PLYWOOD.
WASTE STREAM SOURCE	This stream is soils contact handled non-mixed TRU waste from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W383	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Solidif inorg labpacks CH/r TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	34.6	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	21.7	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	17.4	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	13.1	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.6	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	9.00E-02
Pu-241	2.11E+01
Pu-240	7.60E-01
Pu-239	3.37E+00
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box	9.6	0.0	0.0	0.0	0.0	9.6
Totals	9.6	0.0	0.0	0.0	0.0	9.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	9.4	0.0	0.0	0.0	0.0	9.4
Totals	9.4	0.0	0.0	0.0	0.0	9.4

As-Generated Form: Stored: 9.6 Projected: 0.0 Total: 9.6

Final Waste Form: Stored: 9.4 Projected: 0.0 Total: 9.4

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS ABSORBENT/KITY LTR/VERMICULITE, METAL/IRON/GALVANIZED/SHEET, WOOD/LUMBER/PLYWOOD, PLASTIC/POLYURETHANE, OILS.
WASTE STREAM SOURCE	This stream is solidified inorganics contact handled packaged remote non-mixed TRU waste from the Plutonium Recovery and Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W384	Handling:	CH	NMVP #:	N/A	Stream Name:	2718E Comb debris CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Combustible	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	4.8	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	56.0	0.0	0.0
Rubber:	67.2	0.0	0.0
Plastics:	49.6	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Am-241	5.70E-01
Pu-241	5.38E+00
Pu-240	2.20E-01
Pu-239	9.20E-01
Beta/Gamma	2.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 0.6 Projected: 0.0 Total: 0.6

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS PLASTIC/POLYURETHANE, PAPER/CARDBOARD, RUBBER, CLOTH/RAGS/NYLON, METAL/IRON/GALVANIZED/SHEET.
WASTE STREAM SOURCE	This stream is combustible contact handled non-mixed TRU waste from the PNL Critical Mass Storage Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W385	Handling:	CH	NMVP #:	N/A	Stream Name:	308 Uncat met debris CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	227.9	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	6.1	0.0	0.0
Other Inorganic Material:	2.1	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	22.3	0.0	0.0
Rubber:	3.2	0.0	0.0
Plastics:	42.3	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	2.50E-01
Pu-241	2.20E+01
Pu-240	9.00E-01
Pu-239	3.56E+00
Beta/Gamma	1.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	8.2	0.6	0.0	0.0	0.0	8.8
Totals	8.2	0.6	0.0	0.0	0.0	8.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	8.1	0.6	0.0	0.0	0.0	8.7
Totals	8.1	0.6	0.0	0.0	0.0	8.7

As-Generated Form: Stored: 8.2 Projected: 0.0 Total: 8.2

Final Waste Form: Stored: 8.1 Projected: 0.6 Total: 8.7

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS METAL/IRON/GALVANIZED/SHEET, PLASTIC/POLYURETHANE, PAPER/CARDBOARD, WOOD/LUMBER/PLYWOOD, ORGANICS, RUBBER, CHEMICALS, CLOTH/RAGS/NYLON, STAINLESS STEEL, EQUIPMENT, MISCELLANEOUS/UNKNOWN/OTHER, COTTON/KOTEX, INSULATION
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled non-mixed TRU waste from the Fuels Development Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RL-W386	Handling: CH	NMVP #: N/A	Stream Name: 308 Uncat met debris CH/r TRU		Inventory Date: 12/1/94
Local ID:	Type: TRU	Generator Site: RL	Final Waste Form: Uncategorized Metal		Waste Matrix Code: S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	178.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	3.3	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	32.9	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	2.50E-01
Pu-241	2.20E+01
Pu-240	9.00E-01
Pu-239	3.56E+00
Beta/Gamma	6.75E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS METAL/IRON/GALVANIZED/SHEET, PLASTIC/POLYURETHANE, PAPER/CARDBOARD, WOOD/LUMBER/PLYWOOD.
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled packaged remote non-mixed TRU waste from the Fuels Development Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W387	Handling:	CH	NMVP #:	N/A	Stream Name:	308 Inorg non-met debris CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	17.6	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	290.4	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	8.1	0.0	0.0
Rubber:	1.4	0.0	0.0
Plastics:	37.5	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.7	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	1.5	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	2.50E-01
Pu-241	2.20E+01
Pu-240	9.00E-01
Pu-239	3.56E+00
Beta/Gamma	1.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.5	0.2	0.0	0.0	0.0	1.7
Totals	1.5	0.2	0.0	0.0	0.0	1.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.5	0.2	0.0	0.0	0.0	1.7
Totals	1.5	0.2	0.0	0.0	0.0	1.7

As-Generated Form: Stored: 1.5 Projected: 0.0 Total: 1.5

Final Waste Form: Stored: 1.5 Projected: 0.2 Total: 1.7

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS CONCRETE, PLASTIC/POLYURETHANE, ABSORBENT/KITY LTR/VERMICULITE, METAL/IRON/GALVANIZED/SHEET, CLOTH/RAGS/NYLON, PAPER/CARDBOARD, OILS, RUBBER, WATER, 90 MIL LINER.
WASTE STREAM SOURCE	This stream is inorganic non-metal contact handled non-mixed TRU waste from the Fuels Development Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W388	Handling:	CH	NMVP #:	N/A	Stream Name:	308 Comb debris CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Combustible	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	6.6	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.1	0.0	0.0
Other Inorganic Material:	0.6	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	9.5	0.0	0.0
Rubber:	3.8	0.0	0.0
Plastics:	18.2	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	2.50E-01
Pu-241	2.20E+01
Pu-240	9.00E-01
Pu-239	3.56E+00
Beta/Gamma	1.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	7.3	0.6	0.0	0.0	0.0	8.0
Box	9.6	0.0	0.0	0.0	0.0	9.6
Totals	16.9	0.6	0.0	0.0	0.0	17.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	7.3	0.6	0.0	0.0	0.0	7.9
Standard Waste Box	9.4	0.0	0.0	0.0	0.0	9.4
Totals	16.7	0.6	0.0	0.0	0.0	17.4

As-Generated Form: Stored: 16.9 Projected: 0.0 Total: 16.9

Final Waste Form: Stored: 16.7 Projected: 0.6 Total: 17.4

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS FILTERS, PLASTIC/POLYURETHANE, WOOD/LUMBER/PLYWOOD, PAPER/CARDBOARD, METAL/IRON/GALVANIZED/SHEET, RUBBER, CLOTH/RAGS/NYLON, GLASS, CERAMICS, EQUIPMENT, STAINLESS STEEL, ABSORBENT/KITY LTR/VERMICULITE, 10 MIL LINER, CHEM
WASTE STREAM SOURCE	This stream is combustible contact handled non-mixed TRU waste from the Fuels Development Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W389	Handling:	CH	NMVP #:	N/A	Stream Name:	308 Comb debris CH/r TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Combustible	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	23.7	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	25.3	0.0	0.0
Rubber:	18.0	0.0	0.0
Plastics:	87.9	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	2.50E-01
Pu-241	2.20E+01
Pu-240	9.00E-01
Pu-239	3.56E+00
Beta/Gamma	9.29E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS PLASTIC/POLYURETHANE, PAPER/CARDBOARD, METAL/IRON/GALVANIZED/SHEET, RUBBER.
WASTE STREAM SOURCE	This stream is combustible contact handled packaged remote non-mixed TRU waste from the Fuels Development Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W390	Handling:	CH	NMVP #:	N/A	Stream Name:	308 Pb/Cd met unk form CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	U9999

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	26.9	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	442.2	0.0	0.0
Other Inorganic Material:	24.8	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	6.6	0.0	0.0
Rubber:	1.0	0.0	0.0
Plastics:	14.9	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	2.50E-01
Pu-241	2.20E+01
Pu-240	9.00E-01
Pu-239	3.56E+00
Beta/Gamma	4.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 0.6 Projected: 0.0 Total: 0.6

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS EQUIPMENT, CHEMICALS, PLASTIC/POLYURETHANE, METAL/IRON/GALVANIZED/SHEET, CERAMICS, PAPER/CARDBOARD, RUBBER, CLOTH/RAGS/NYLON, PLEXIGLASS, GLASS, 10 MIL LINER.
WASTE STREAM SOURCE	This stream is lead cadmium metal contact handled non-mixed TRU waste from the Fuels Development Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

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TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W392	Handling:	CH	NMVP #:	N/A	Stream Name:	324 Inorg non-met part CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3110

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	14.2	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	181.1	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	2.10E-01
Pu-240	1.00E-02
Pu-239	3.00E-02
Beta/Gamma	2.40E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS ABSORBENT/KITY LTR/VERMICULITE, METAL/IRON/GALVANIZED/SHEET, GLASS.
WASTE STREAM SOURCE	This stream is inorganic non-metal contact handled non-mixed TRU waste from the PNL Chemical Engineering Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RL-W393	Handling: CH	NMVP #: N/A	Stream Name: 325 Inorg non-met debris CH TRU		Inventory Date: 12/1/94
Local ID:	Type: TRU	Generator Site: RL	Final Waste Form: Inorganic Non-Metal		Waste Matrix Code: S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	46.7	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	3.2	0.0	0.0
Other Inorganic Material:	116.2	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	11.7	0.0	0.0
Rubber:	5.8	0.0	0.0
Plastics:	27.8	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.9	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.1		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	1.89E+00
Pu-241	2.16E+01
Pu-240	7.50E-01
Pu-239	2.08E+00
Beta/Gamma	4.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	5.4	2.1	2.7	2.5	2.1	14.8
Totals	5.4	2.1	2.7	2.5	2.1	14.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	5.4	2.1	2.7	2.5	2.1	14.8
Totals	5.4	2.1	2.7	2.5	2.1	14.8

As-Generated Form:	Stored:	5.4	Projected:	9.4	Total:	14.8	Final Waste Form:	Stored:	5.4	Projected:	9.4	Total:	14.8

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS ABSORBENT/KITY LTR/VERMICULITE, PLASTIC/POLYURETHANE, METAL/IRON/GALVANIZED/SHEET, GLASS, PAPER/CARDBOARD, CERAMICS, RUBBER, CLOTH/RAGS/NYLON, CONCRETE, EQUIPMENT, INSULATION NON-ASBESTOS, MISCELLANEOUS/UNKNOWN/OTHER.
WASTE STREAM SOURCE	This stream is inorganic non-metal contact handled non-mixed TRU waste from the PNL Radiochemistry Building.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W394	Handling:	CH	NMVP #:	N/A	Stream Name:	325 Solidif inorg part CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3110

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	32.1	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	30.6	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	1.2	0.0	0.0
Rubber:	2.4	0.0	0.0
Plastics:	32.4	0.0	0.0
Solidified Inorganic Material:	641.3	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	1.89E+00
Pu-241	2.16E+01
Pu-240	7.50E-01
Pu-239	2.08E+00
Beta/Gamma	1.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.0	1.2	1.6	2.0	2.0	9.9
Totals	3.0	1.2	1.6	2.0	2.0	9.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.1	1.2	1.7	2.1	2.1	10.2
Totals	3.1	1.2	1.7	2.1	2.1	10.2

As-Generated Form:	Stored:	3.0	Projected:	6.8	Total:	9.9	Final Waste Form:	Stored:	3.1	Projected:	7.1	Total:	10.2

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS CEMENT, PLASTIC/POLYURETHANE, LIQUID, ABSORBENT/KITY LTR/VERMICULITE, METAL/IRON/GALVANIZED/SHEET, CHEMICALS, RUBBER, CLOTH/RAGS/NYLON, GLASS, PAPER/CARDBOARD, LEATHER, 10 MIL LINER.
WASTE STREAM SOURCE	This stream is solidified inorganics contact handled non-mixed TRU waste from the PNL Radiochemistry Building.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RL-W395	Handling: CH	NMVP #: N/A	Stream Name: 325 Uncat met debris CH TRU		Inventory Date: 12/1/94
Local ID:	Type: TRU	Generator Site: RL	Final Waste Form: Uncategorized Metal		Waste Matrix Code: S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	129.8	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	2.6	0.0	0.0
Other Inorganic Material:	7.7	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	3.3	0.0	0.0
Rubber:	4.7	0.0	0.0
Plastics:	19.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	1.89E+00
Pu-241	2.16E+01
Pu-240	7.50E-01
Pu-239	2.08E+00
Beta/Gamma	1.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	13.9	5.4	7.5	5.8	4.2	36.8
Box	9.8	0.0	0.0	0.0	0.0	9.8
Totals	23.7	5.4	7.5	5.8	4.2	46.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	13.9	5.4	7.5	5.8	4.2	36.8
Standard Waste Box	9.4	0.0	0.0	0.0	0.0	9.4
Totals	23.4	5.4	7.5	5.8	4.2	46.3

As-Generated Form: Stored: 23.7 Projected: 22.8 Total: 46.6

Final Waste Form: Stored: 23.4 Projected: 22.9 Total: 46.3

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS METAL/IRON/GALVANIZED/SHEET, PLASTIC/POLYURETHANE, RUBBER, GLASS, CLOTH/RAGS/NYLON, PAPER/CARDBOARD, STAINLESS STEEL, EQUIPMENT, WOOD/LUMBER/PLYWOOD, ABSORBENT/KITY LTR/VERMICULITE, CHARCOAL, INSULATION NON-ASBESTOS, ASBESTOS
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled non-mixed TRU waste from the PNL Radiochemistry Building.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W396	Handling:	CH	NMVP #:	N/A	Stream Name:	325 Uncat met debris CH/r TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5110

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	2595.2	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	95.2	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	4.8	0.0	0.0
Plastics:	14.3	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	1.89E+00
Pu-241	2.16E+01
Pu-240	7.50E-01
Pu-239	2.08E+00
Beta/Gamma	1.30E+01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS METAL/IRON/GALVANIZED/SHEET, EQUIPMENT, PLASTIC/POLYURETHANE, RUBBER.
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled packaged remote non-mixed TRU waste from the PNL Radiochemistry Building.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W397	Handling:	CH	NMVP #:	N/A	Stream Name:	325 Comb debris CH TRU
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Combustible

Inventory Date: 12/1/94

Waste Matrix Code: S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	47.8	0.0	0.0
Aluminum-base Metal/Alloys:	0.6	0.0	0.0
Other Metals/Alloys:	1.1	0.0	0.0
Other Inorganic Material:	27.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	20.2	0.0	0.0
Rubber:	48.8	0.0	0.0
Plastics:	93.7	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	1.89E+00
Pu-241	2.16E+01
Pu-240	7.50E-01
Pu-239	2.08E+00
Beta/Gamma	4.00E-02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.5	1.2	2.1	2.5	2.1	11.4
Totals	3.5	1.2	2.1	2.5	2.1	11.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	3.5	1.2	2.1	2.5	2.1	11.4
Totals	3.5	1.2	2.1	2.5	2.1	11.4

As-Generated Form:	Stored:	3.5	Projected:	7.9	Total:	11.4	Final Waste Form:	Stored:	3.5	Projected:	7.9	Total:	11.4

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS PLASTIC/POLYURETHANE, METAL/IRON/GALVANIZED/SHEET, RUBBER, CLOTH/RAGS/NYLON, GLASS, PAPER/CARDBOARD, ASBESTOS, ABSORBENT/KITY LTR/VERMICULITE, CERAMICS, STAINLESS STEEL, FUEL/PINS OR RODS, CONCRETE, LEATHER, ALUMINUM, GRAPHITE, LEAD
WASTE STREAM SOURCE	This stream is combustible contact handled non-mixed TRU waste from the PNL Radiochemistry Building.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W398	Handling:	CH	NMVP #:	N/A	Stream Name:	325 Comb debris CH/r TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Combustible	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	15.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	80.2	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	10.0	0.0	0.0
Rubber:	10.0	0.0	0.0
Plastics:	108.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	1.89E+00
Pu-241	2.16E+01
Pu-240	7.50E-01
Pu-239	2.08E+00
Beta/Gamma	2.80E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS GLASS, PLASTIC/POLYURETHANE, METAL/IRON/GALVANIZED/SHEET, PAPER/CARDBOARD, RUBBER, CERAMICS.
WASTE STREAM SOURCE	This stream is combustible contact handled packaged remote non-mixed TRU waste from the PNL Radiochemistry Building.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W399	Handling:	CH	NMVP #:	N/A	Stream Name:	327C Uncat met debris CH/r TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	146.4	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	8.1	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	16.5	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	45.6	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	5.01E+02
Pu-240	7.91E+00
Pu-239	1.59E+01
Beta/Gamma	4.88E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.1	0.2	0.2	0.1	0.0	0.6
Totals	0.1	0.2	0.2	0.1	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	1.5	1.7	0.4	0.0	3.7
Totals	0.2	1.5	1.7	0.4	0.0	3.7

As-Generated Form:	Stored:	0.1	Projected:	0.5	Total:	0.6	Final Waste Form:	Stored:	0.2	Projected:	3.5	Total:	3.7

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS PLASTIC/POLYURETHANE, STAINLESS STEEL, METAL/IRON/GALVANIZED/SHEET, PAPER/CARDBOARD, GLASS, CLOTH/RAGS/NYLON, COTTON/KOTEX.
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled packaged remote non-mixed TRU waste from the PNL Post Irradiation Test Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W400	Handling:	CH	NMVP #:	N/A	Stream Name:	327C Inorg non-met debris CH/r TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	24.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	114.7	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	28.7	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	52.3	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	5.01E+02
Pu-240	7.91E+00
Pu-239	1.59E+01
Beta/Gamma	4.26E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.1	0.1	0.1	0.1	0.0	0.3
Totals	0.1	0.1	0.1	0.1	0.0	0.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.8	1.0	0.4	0.0	2.5
Totals	0.2	0.8	1.0	0.4	0.0	2.5

As-Generated Form: Stored: 0.1 Projected: 0.0 Total: 0.1

Final Waste Form: Stored: 0.2 Projected: 2.3 Total: 2.5

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS PLASTIC/POLYURETHANE, GLASS, CONCRETE, COTTON/KOTEX, METAL/IRON/GALVANIZED/SHEET, STAINLESS STEEL, CLOTH/RAGS/NYLON, PAPER/CARDBOARD.
WASTE STREAM SOURCE	This stream is inorganic non-metal contact handled packaged remote non-mixed TRU waste from the PNL Post Irradiation Test Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TWBIR ID: **RL-W401**

Appendix P

TRU WASTE BASELINE INVENTORY WASTE PROFILE

DOE/CAO-95-112

HQ ID: RL-W401
Local ID:

Handling: CH
Type: TRU

NMVP #: N/A
Generator Site: RL

Stream Name: 327C Comb debris CH/r TRU
Final Waste Form: Combustible

AS-GENERATED EPA CODES
N/A

TRUCON CODE
N/A

Inventory Date: 12/1/94
Waste Matrix Code: S5300

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	54.8	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.8	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	21.7	0.0	0.0
Rubber:	0.2	0.0	0.0
Plastics:	95.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0	0.0	0.0
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	5.01E+02
Pu-240	7.91E+00
Pu-239	1.59E+01
Beta/Gamma	1.51E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	1.6	2.0	1.1	0.7	6.0
Totals	0.6	1.6	2.0	1.1	0.7	6.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	9.6	12.1	6.7	4.2	33.1
Totals	0.6	9.6	12.1	6.7	4.2	33.1

As-Generated Form: Stored: 0.6 Projected: 5.5 Total: 6.0

Final Waste Form: Stored: 0.6 Projected: 32.4 Total: 33.1

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS PLASTIC/POLYURETHANE, STAINLESS STEEL, PAPER/CARDBOARD, METAL/IRON/GALVANIZED/SHEET, CLOTH/RAGS/NYLON, COTTON/KOTEX, GLASS, RUBBER, CONCRETE, WOOD/LUMBER/PLYWOOD.
WASTE STREAM SOURCE	This stream is combustible contact handled packaged remote non-mixed TRU waste from the PNL Post Irradiation Test Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W402	Handling:	CH	NMVP #:	N/A	Stream Name:	340 Uncat met debris CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	134.4	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	12.1	0.0	0.0
Rubber:	5.4	0.0	0.0
Plastics:	45.1	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	5.73E+01
Pu-240	2.13E+00
Pu-239	9.50E+00
Beta/Gamma	2.40E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.3	0.6	1.0	0.4	0.0	3.4
Totals	1.3	0.6	1.0	0.4	0.0	3.4

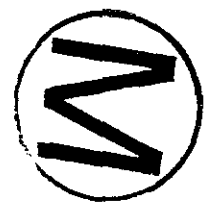
Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.2	0.6	1.0	0.4	0.0	3.3
Totals	1.2	0.6	1.0	0.4	0.0	3.3

As-Generated Form: Stored: 1.3 Projected: 0.0 Total: 1.3

Final Waste Form: Stored: 1.2 Projected: 2.1 Total: 3.3

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS METAL/IRON/GALVANIZED/SHEET, PLASTIC/POLYURETHANE, PAPER/CARDBOARD, RUBBER, CLOTH/RAGS/NYLON.
WASTE STREAM SOURCE	This stream is uncategorized metal contact handled non-mixed TRU waste from the Waste Loadout Building.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RL-W403 | Handling: CH | NMVP #: N/A | Stream Name: 340 Inorg non-met debris CH TRU | Inventory Date: 12/1/94
Local ID: | Type: TRU | Generator Site: RL | Final Waste Form: Inorganic Non-Metal | Waste Matrix Code: S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	31.6	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	223.1	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	10.6	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	51.2	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

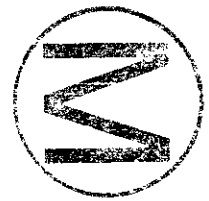
Category: Defense TRU Waste
Residues: No
Asbestos: No
PCBs: No
Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	5.73E+01
Pu-240	2.13E+00
Pu-239	9.50E+00
Beta/Gamma	2.40E-01



WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.0	0.0	0.0	0.0	0.6
Totals	0.6	0.0	0.0	0.0	0.0	0.6

As-Generated Form: Stored: 0.6 Projected: 0.0 Total: 0.6

Final Waste Form: Stored: 0.6 Projected: 0.0 Total: 0.6

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS CONCRETE, PLASTIC/POLYURETHANE, METAL/IRON/GALVANIZED/SHEET, PAPER/CARDBOARD.
WASTE STREAM SOURCE	This stream is inorganic non-metal contact handled non-mixed TRU waste from the Waste Loadout Building.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W404	Handling:	CH	NMVP #:	N/A	Stream Name:	340 Comb debris CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Combustible	Waste Matrix Code:	S5300

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	32.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	5.9	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	44.4	0.0	0.0
Rubber:	0.2	0.0	0.0
Plastics:	73.9	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	5.73E+01
Pu-240	2.13E+00
Pu-239	9.50E+00
Beta/Gamma	2.40E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.6	1.0	0.4	0.0	4.2
Totals	2.1	0.6	1.0	0.4	0.0	4.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	2.1	0.6	1.0	0.4	0.0	4.2
Totals	2.1	0.6	1.0	0.4	0.0	4.2

As-Generated Form: Stored: 2.1 Projected: 0.0 Total: 2.1

Final Waste Form: Stored: 2.1 Projected: 2.1 Total: 4.2

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS PLASTIC/POLYURETHANE, PAPER/CARDBOARD, METAL/IRON/GALVANIZED/SHEET, WOOD/LUMBER/PLYWOOD, GLASS, CONCRETE, CERAMICS, RUBBER, CLOTH/RAGS/NYLON.
WASTE STREAM SOURCE	This stream is combustible contact handled non-mixed TRU waste from the Waste Loadout Building.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W405	Handling:	CH	NMVP #:	N/A	Stream Name:	3720 Inorg non-met debris CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	S3110

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	23.7	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	114.3	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	43.9	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

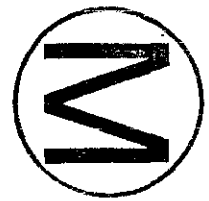
Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	8.60E+00
Pu-241	3.27E+00
Pu-240	1.20E-01
Pu-239	5.40E-01
Beta/Gamma	0.00E+00



WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

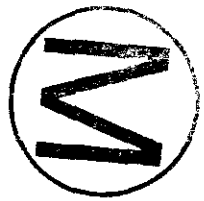
Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS ABSORBENT/KITY LTR/VERMICULITE, PLASTIC/POLYURETHANE, METAL/IRON/GALVANIZED/SHEET, GLASS.
WASTE STREAM SOURCE	This stream is inorganic non-metal contact handled non-mixed TRU waste from the PNL Chemistry and Metal Sciences Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W406	Handling:	CH	NMVP #:	N/A	Stream Name:	6652H Soils CH TRU	Inventory Date:	12/1/94
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Soils	Waste Matrix Code:	S4000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	131.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	597.6		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Am-241	0.00E+00
Pu-241	1.24E+00
Pu-240	5.00E-02
Pu-239	2.10E-01
Beta/Gamma	0.00E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	0.0	0.4
Totals	0.4	0.0	0.0	0.0	0.0	0.4

As-Generated Form: Stored: 0.4 Projected: 0.0 Total: 0.4

Final Waste Form: Stored: 0.4 Projected: 0.0 Total: 0.4

WASTE STREAM DESCRIPTION	THIS STREAM CONTAINS DIRT/SOIL/DIATOMACEOUS EARTH, PLASTIC/POLYURETHANE.
WASTE STREAM SOURCE	This stream is soils contact handled non-mixed TRU waste from the PNL Arid Lands Ecology Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RL-W407	Handling: CH	NMVP #: N/A	Stream Name: 202A Non-Surpl Fac Mt Prg D&D TRU		Inventory Date:
Local ID:	Type: TRU	Generator Site: RL	Final Waste Form: Uncategorized Metal		Waste Matrix Code: U9999

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	74.9	93.6	168.5
Standard Waste Box	0.0	0.0	0.0	166.3	207.9	374.2
Totals	0.0	0.0	0.0	241.2	301.5	542.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	74.9	93.6	168.5
Standard Waste Box	0.0	0.0	0.0	166.3	207.9	374.2
Totals	0.0	0.0	0.0	241.2	301.5	542.7

As-Generated Form: Stored: 0.0 Projected: 542.7 Total: 542.7

Final Waste Form: Stored: 0.0 Projected: 542.7 Total: 542.7

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste , such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	The waste stream is from cleanout of contaminated equipment/removable piping etc. from PUREX facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	While not forecasted from 1995 to 1999, additional generation is forecasted from 2000 to 2024.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W408	Handling:	CH	NMVP #:	N/A	Stream Name:	221T/2706T Non-Surpl Fac Mt Prg D&D TRU	Inventory Date:	
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	U9999

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	339.5	424.3	763.8
Totals	0.0	0.0	0.0	339.5	424.3	763.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	339.5	424.3	763.8
Totals	0.0	0.0	0.0	339.5	424.3	763.8

As-Generated Form: Stored: 0.0 Projected: 848.6 Total: 848.6

Final Waste Form: Stored: 0.0 Projected: 848.6 Total: 848.6

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste , such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	The waste stream is from facility clean-out and D&D waste from the T-Plant Canyon and Decontamination facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	While not forecasted from 1995 to 1999, additional generation is forecasted from 2000 to 2024.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W409	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Non-Surpl Fac Mt Prg D&D TRU	Inventory Date:	
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	U9999

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	49.9	62.4	112.3
Standard Waste Box	0.0	0.0	0.0	0.0	0.0	0.0
Totals	0.0	0.0	0.0	49.9	62.4	112.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	49.9	62.4	112.3
Standard Waste Box	0.0	0.0	0.0	3417.1	4271.4	7688.5
Totals	0.0	0.0	0.0	3467.0	4333.8	7800.8

As-Generated Form: Stored: 0.0 Projected: 8667.6 Total: 8667.6

Final Waste Form: Stored: 0.0 Projected: 8667.6 Total: 8667.6

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste , such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	The waste stream is from cleanout and D&D of the Plutonium Finishing Plant and Plutonium Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	While not forecasted from 1995 to 1999, additional generation is forecasted from 2000 to 2024.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W410	Handling:	CH	NMVP #:	N/A	Stream Name:	308 Non-Surpl Fac Mt Prg D&D TRU	Inventory Date:	
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	U9999

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	34.9	43.7	78.6
Standard Waste Box	0.0	0.0	0.0	0.0	4.5	4.5
Totals	0.0	0.0	0.0	34.9	48.2	83.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	34.9	43.7	78.6
Standard Waste Box	0.0	0.0	0.0	0.0	4.5	4.5
Totals	0.0	0.0	0.0	34.9	48.2	83.2

As-Generated Form: Stored: 0.0 Projected: 91.9 Total: 91.9

Final Waste Form: Stored: 0.0 Projected: 91.9 Total: 91.9

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste , such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	The waste stream is from facility cleanout and D&D of the Fuel Fabrication Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	While not forecasted from 1995 to 1999, additional generation is forecasted from 2000 to 2024.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W411	Handling:	CH	NMVP #:	N/A	Stream Name:	231-Z Non-Surpl Fac Mt Prg D&D TRU	Inventory Date:	
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	U9999

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Celluiosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	0.0	0.0	0.0	15.1	18.9	34.0
Totals	0.0	0.0	0.0	15.1	18.9	34.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	0.0	0.0	0.0	15.1	18.9	34.0
Totalr	0.0	0.0	0.0	15.1	18.9	34.0

As-Generated Form: Stored: 0.0 Projected: 37.8 Total: 37.8

Final Waste Form: Stored: 0.0 Projected: 37.8 Total: 37.8

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste , such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	The waste stream is from facility cleanout and D&D of the Material Engineering Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	While not forecasted from 1995 to 1999, additional generation is forecasted from 2000 to 2024.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W412	Handling:	CH	NMVP #:	N/A	Stream Name:	327 Non-Surpl Fac Mt Prg D&D TRU	Inventory Date:	
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	U9999

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	0.0	0.0	0.0	15.1	18.9	34.0
Totals	0.0	0.0	0.0	15.1	18.9	34.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	0.0	0.0	0.0	15.1	18.9	34.0
Totals	0.0	0.0	0.0	15.1	18.9	34.0

As-Generated Form: Stored: 0.0 Projected: 37.8 Total: 37.8

Final Waste Form: Stored: 0.0 Projected: 37.8 Total: 37.8

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste , such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	The waste stream is large tanks/dissolvers/pumps/concentrator. Size reduction is required to package the waste into CH boxes.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	While not forecasted from 1995 to 1999, additional generation is forecasted from 2000 to 2024.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W413	Handling:	CH	NMVP #:	N/A	Stream Name:	TWRS Vit Fac Waste TRU Type 1	Inventory Date:	
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	U9999

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	374.4	468.0	842.4
Totals	0.0	0.0	0.0	374.4	468.0	842.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	374.4	468.0	842.4
Totals	0.0	0.0	0.0	374.4	468.0	842.4

As-Generated Form: Stored: 0.0 Projected: 936.0 Total: 936.0

Final Waste Form: Stored: 0.0 Projected: 936.0 Total: 936.0

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste , such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	The waste stream is miscellaneous solid wastes from the operation of the planned HLW vitrification facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	While not forecasted from 1995 to 1999, additional generation is forecasted from 2000 to 2024.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W414	Handling:	CH	NMVP #:	N/A	Stream Name:	202A Non-Surpl Fac Mt Prog D&D MTRU	Inventory Date:	
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	U9999

AS-GENERATED EPA CODES

Uncompiled

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	0.0	0.1	0.1
Standard Waste Box	0.0	0.0	0.0	0.0	8.7	8.7
Totals	0.0	0.0	0.0	0.0	8.8	8.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	0.0	0.1	0.1
Standard Waste Box	0.0	0.0	0.0	0.0	8.7	8.7
Totals	0.0	0.0	0.0	0.0	8.8	8.8

As-Generated Form: Stored: 0.0 Projected: 8.7 Total: 8.7

Final Waste Form: Stored: 0.0 Projected: 8.7 Total: 8.7

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste , such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	The waste stream is from cleanout of contaminated equipment/removable piping etc. from PUREX facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W415	Handling:	CH	NMVP #:	N/A	Stream Name:	221T/2706T Non-Surpl Fac Mt Prg D&D MTRU	Inventory Date:	
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	U9999

AS-GENERATED EPA CODES

Uncompiled

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	0.0	0.0	0.0	1088.6	1360.8	2449.4
Totals	0.0	0.0	0.0	1088.6	1360.8	2449.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	0.0	0.0	0.0	1088.6	1360.8	2449.4
Totals	0.0	0.0	0.0	1088.6	1360.8	2449.4

As-Generated Form: Stored: 0.0 Projected: 2721.6 Total: 2721.6

Final Waste Form: Stored: 0.0 Projected: 2721.6 Total: 2721.6

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste , such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	The waste stream is from facility clean-out and D&D waste from the T-Plant Canyon and Decontamination facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W416	Handling:	CH	NMVP #:	N/A	Stream Name:	2345Z Non-Surpl Fac Mt Prg D&D MTRU	Inventory Date:	
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	U9999

AS-GENERATED EPA CODES

Uncompiled

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	0.0	0.0	0.0	4021.9	5027.4	9049.3
Totals	0.0	0.0	0.0	4021.9	5027.4	9049.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	0.0	0.0	0.0	4021.9	5027.4	9049.3
Totals	0.0	0.0	0.0	4021.9	5027.4	9049.3

As-Generated Form: Stored: 0.0 Projected: 10054.8 Total: 10054.8

Final Waste Form: Stored: 0.0 Projected: 10054.8 Total: 10054.8

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste , such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	The waste stream is from clean-out and D&D of the Plutonium Finishing Plant and Plutonium Processing Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W417	Handling:	CH	NMVP #:	N/A	Stream Name:	231-Z Non-Surpl Fac Mt Prg D&D MTRU	Inventory Date:	
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	U9999

AS-GENERATED EPA CODES

Uncompiled

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	0.0	0.0	0.0	0.0	2.1	2.1
Totals	0.0	0.0	0.0	0.0	2.1	2.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	0.0	0.0	0.0	0.0	2.1	2.1
Totals	0.0	0.0	0.0	0.0	2.1	2.1

As-Generated Form: Stored: 0.0 Projected: 2.0 Total: 2.0

Final Waste Form: Stored: 0.0 Projected: 2.0 Total: 2.0

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste , such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	The waste stream is from facility clean-out and D&D of the Material Engineering Laboratory.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W418	Handling:	CH	NMVP #:	N/A	Stream Name:	TWRS Vit Fac Waste MTRU Type 1	Inventory Date:	
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	U9999

AS-GENERATED EPA CODES

Uncompiled

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	374.4	468.0	842.4
Totals	0.0	0.0	0.0	374.4	468.0	842.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	374.4	468.0	842.4
Totals	0.0	0.0	0.0	374.4	468.0	842.4

As-Generated Form: Stored: 0.0 Projected: 936.0 Total: 936.0

Final Waste Form: Stored: 0.0 Projected: 936.0 Total: 936.0

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste , such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	The waste stream is miscellaneous solid wastes from the operation of the planned HLW vitrification facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W419	Handling:	RH	NMVP #:	N/A	Stream Name:	100K K-Basin Operations TRU	Inventory Date:	
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	U9999

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	67.6	0.0	0.0	0.0	67.6
Totals	0.0	67.6	0.0	0.0	0.0	67.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	67.6	0.0	0.0	0.0	67.6
Totals	0.0	67.6	0.0	0.0	0.0	67.6

As-Generated Form: Stored: 0.0 Projected: 67.6 Total: 67.6

Final Waste Form: Stored: 0.0 Projected: 67.6 Total: 67.6

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste , such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	The waste stream is miscellaneous solid wastes from operations of the N-Reactor fuel storage basins.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W420	Handling:	RH	NMVP #:	N/A	Stream Name:	TWRS Vit Fac Waste TRU Type 2	Inventory Date:	
Local ID:		Type:	TRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	U9999

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	356.0	445.0	801.0
Totals	0.0	0.0	0.0	356.0	445.0	801.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	356.0	445.0	801.0
Totals	0.0	0.0	0.0	356.0	445.0	801.0

As-Generated Form: Stored: 0.0 Projected: 890.0 Total: 890.0

Final Waste Form: Stored: 0.0 Projected: 890.0 Total: 890.0

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste , such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	The waste stream is miscellaneous solid wastes from the operation of the planned HLW vitrification facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	While not forecasted from 1995 to 1999, additional generation is forecasted from 2000 to 2024.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W421	Handling:	RH	NMVP #:	N/A	Stream Name:	221T/2706T T-Plant Operations MTRU	Inventory Date:	
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	U9999

AS-GENERATED EPA CODES

Uncomplied

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	7.1	21.4	0.0	0.0	28.5
Totals	0.0	7.1	21.4	0.0	0.0	28.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	7.1	21.4	0.0	0.0	28.5
Totals	0.0	7.1	21.4	0.0	0.0	28.5

As-Generated Form: Stored: 0.0 Projected: 28.5 Total: 28.5

Final Waste Form: Stored: 0.0 Projected: 28.5 Total: 28.5

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste , such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	The waste stream is miscellaneous waste related to operation of the T-Plant Canyon and Decontamination Facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W422	Handling:	RH	NMVP #:	N/A	Stream Name:	Tank Waste Retrieval MTRU	Inventory Date:	
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Heterogeneous	Waste Matrix Code:	U9999

AS-GENERATED EPA CODES

Uncompiled

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	99.7	124.6	224.3
Totals	0.0	0.0	0.0	99.7	124.6	224.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	99.7	124.6	224.3
Totals	0.0	0.0	0.0	99.7	124.6	224.3

As-Generated Form: Stored: 0.0 Projected: 249.2 Total: 249.2

Final Waste Form: Stored: 0.0 Projected: 249.2 Total: 249.2

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste , such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	The waste stream is miscellaneous solid waste from planned tank waste retrieval operations.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W423	Handling:	RH	NMVP #:	N/A	Stream Name:	TWRS Vit Fac Waste MTRU Type 2	Inventory Date:	
Local ID:		Type:	MTRU	Generator Site:	RL	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	U9999

AS-GENERATED EPA CODES

Uncompiled

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	356.0	445.0	801.0
Totals	0.0	0.0	0.0	356.0	445.0	801.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	356.0	445.0	801.0
Totals	0.0	0.0	0.0	356.0	445.0	801.0

As-Generated Form: Stored: 0.0 Projected: 890.0 Total: 890.0

Final Waste Form: Stored: 0.0 Projected: 890.0 Total: 890.0

WASTE STREAM DESCRIPTION	Typically, 70 to 80% of the waste in the drums is combustible items such as wood, plastics, paper, absorbents, rubber and rags. Approximately 20 to 30% of the waste in drums is noncombustible waste , such as failed machinery, tools, glass, concrete, plumbing fixtures and soil. Boxes typically contain whole and sectioned glove boxes, hoods, conduit, lathes, pumps, fans, light fixtures, tools conveyor sections, wire, etc. The combustible materials in boxes may include cotton rags and clothing, plastic sheeting, plastic pipe, tape, ladders, plexiglass, step benches, polyethylene bottles, gloves and rubber. Absorbed combustible liquids such as oil have also been placed in some drums and boxes. Drums and boxes are also used for disposal of high-efficiency particulate air filters. Several boxes contain only high-efficiency particulate air filters, while others contain these filters and other waste forms.
WASTE STREAM SOURCE	The waste stream is miscellaneous solid wastes from the operation of the planned HLW vitrification facility.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Data are compiled from waste manifest data on each container of TRU waste.
MANAGEMENT COMMENTS	The assumption is that the WIPP No Migration Petition will be approved by EPA and the State of New Mexico. Under the assumption, treatment of the waste stream to meet LDR is not required nor planned.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W424	Handling:	RH	NMVP #:	N/A	Stream Name:	327 Non-surplus Facility Mgmt Prg D&D TRU/RH	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:		Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5100

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	164.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	60.0	0.0	0.0
Other Inorganic Material:	35.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	5.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	6.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	0.0	1014.6	1014.6
Totals	0.0	0.0	0.0	0.0	1014.6	1014.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	0.0	1014.6	1014.6
Totals	0.0	0.0	0.0	0.0	1014.6	1014.6

As-Generated Form: Stored: 0.0 Projected: 1014.6 Total: 1014.6

Final Waste Form: Stored: 0.0 Projected: 1014.6 Total: 1014.6

WASTE STREAM DESCRIPTION	The waste stream typically contains equipment including but not limited to saws, manipulators, hoists, hoods, lathes, and cabinetry.
WASTE STREAM SOURCE	The waste stream is large tanks/dissolvers/pumps/concentrator. Size reduction is required to package the waste into RH canisters.
CURRENT CONTAINER COMMENTS	Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	The research and development roles expected to be assumed by 327 before closure have not been defined.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W425	Handling:	RH	NMVP #:	N/A	Stream Name:	100N Non-surplus Facility Mgmt Prg D&D TRU/RH	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:		Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	0.0	1183.7	1183.7
Totals	0.0	0.0	0.0	0.0	1183.7	1183.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	0.0	1183.7	1183.7
Totals	0.0	0.0	0.0	0.0	1183.7	1183.7

As-Generated Form: Stored: 0.0 Projected: 1183.7 Total: 1183.7

Final Waste Form: Stored: 0.0 Projected: 1183.7 Total: 1183.7

WASTE STREAM DESCRIPTION	The waste stream is surplus facility clean-out and D&D waste which range from contaminated clothing, to process equipment.
WASTE STREAM SOURCE	Facility clean-out and D&D from the 100-N Reactor Facility.
CURRENT CONTAINER COMMENTS	Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W426	Handling:	RH	NMVP #:	N/A	Stream Name:	202A Non-surplus Facility Mgmt Prg D&D TRU/RH	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:		Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5110

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	241.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
	1.20E-06
	8.00E-07
	7.80E-02
	9.30E-02
	7.80E-02
	9.80E-02
	9.90E-04
	1.90E-03
	1.70E-08
	2.20E-07
	6.70E-08
	4.50E-04
	1.10E-03
	6.20E-04
	1.80E-02
	1.70E-06
	2.20E-07
	1.60E-03
	2.60E-03
	2.60E-03
	4.10E-09
	1.90E-04

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	0.0	115.7	115.7
Totals	0.0	0.0	0.0	0.0	115.7	115.7

*Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	0.0	115.7	115.7
Totals	0.0	0.0	0.0	0.0	115.7	115.7

As-Generated Form: Stored: 0.0 Projected: 115.7 Total: 115.7

Final Waste Form: Stored: 0.0 Projected: 115.7 Total: 115.7

WASTE STREAM DESCRIPTION	The waste stream is large tanks/dissolvers/pumps/concentrator. Size reduction is required to package the waste into RH canisters.
WASTE STREAM SOURCE	Cleanout of contaminated equipment/removable piping etc. from PUREX facility.
CURRENT CONTAINER COMMENTS	Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W427	Handling:	RH	NMVP #:	N/A	Stream Name:	202-A Tunnel Non-surplus Facility Mgmt Prg D&D TRU/RH	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:		Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5110

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	231.0	0.0	0.0
Aluminum-base Metal/Alloys:	4.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	5.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	0.0	696.9	696.9
Totals	0.0	0.0	0.0	0.0	696.9	696.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	0.0	696.9	696.9
Totals	0.0	0.0	0.0	0.0	696.9	696.9

As-Generated Form: Stored: 0.0 Projected: 696.9 Total: 696.9

Final Waste Form: Stored: 0.0 Projected: 696.9 Total: 696.9

WASTE STREAM DESCRIPTION	Fuel reprocessing equipment (i.e., columns, concentrators, dissolvers, tanks, scrap). One container is filled with fuel ends and fuel handling equipment (22.7m3).
WASTE STREAM SOURCE	Held waste in 2 below grade tunnels that contain equipment too large, bulky and/or highly radioactively contaminated to be stored/disposed of by conventional methods.
CURRENT CONTAINER COMMENTS	Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W428	Handling:	RH	NMVP #:	N/A	Stream Name:	221T/2706T Non-surplus Facility Mgmt Prg D&D TRU/RH	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:		Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	0.0	213.6	213.6
Totals	0.0	0.0	0.0	0.0	213.6	213.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	0.0	213.6	213.6
Totals	0.0	0.0	0.0	0.0	213.6	213.6

As-Generated Form: Stored: 0.0 Projected: 213.6 Total: 213.6

Final Waste Form: Stored: 0.0 Projected: 213.6 Total: 213.6

WASTE STREAM DESCRIPTION	The waste stream ranges from contaminated clothing to process equipment.
WASTE STREAM SOURCE	Facility clean-out and D&D waste from the T-Plant Canyon and Decontamination facility.
CURRENT CONTAINER COMMENTS	Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W429	Handling:	RH	NMVP #:	N/A	Stream Name:	2345Z Non-surplus Facility Mgmt Prg D&D TRU/RH	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:		Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5110

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	190.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	52.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	0.0	2162.7	2162.7
Totals	0.0	0.0	0.0	0.0	2162.7	2162.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	0.0	2162.7	2162.7
Totals	0.0	0.0	0.0	0.0	2162.7	2162.7

As-Generated Form: Stored: 0.0 Projected: 2162.7 Total: 2162.7

Final Waste Form: Stored: 0.0 Projected: 2162.7 Total: 2162.7

WASTE STREAM DESCRIPTION	This waste stream is major processing equipment, piping, ductwork, and gloveboxes resulting fron the cleanout and D&D of PFP.
WASTE STREAM SOURCE	Cleanout and D&D of the Plutonium Finishing Plant and Plutonium Processing Facility.
CURRENT CONTAINER COMMENTS	Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W430	Handling:	RH	NMVP #:	N/A	Stream Name:	Surplus Facility Mgmt Prg D&D MTRU/RH	Inventory Date:	12/31/94
Local ID:		Type:	MTRU	Generator Site:		Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

D001C, D009X, D002B

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	60.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	30.0	0.0	0.0
Other Inorganic Material:	75.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	7.0	0.0	0.0
Solidified Inorganic Material:	83.0	0.0	0.0
Solidified Organic Material:	31.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	24.0	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	622.1	0.0	622.1
Totals	0.0	0.0	0.0	622.1	0.0	622.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	622.1	0.0	622.1
Totals	0.0	0.0	0.0	622.1	0.0	622.1

As-Generated Form:	Stored:	0.0	Projected:	622.1	Total:	622.1	Final Waste Form:	Stored:	0.0	Projected:	622.1	Total:	622.1

WASTE STREAM DESCRIPTION	The waste stream is surplus facilities cleanout and D&D wastes, ranging from contaminated clothing to process equipment and sludges.
WASTE STREAM SOURCE	Cleanout and D&D of all 100 Area Inactive Facalities (includung C, D, DR, KE, KW, H, F, and N reactors, 104F and H Storage Basins, 100N Deactivation, N Basin Cleanout, Emergency Dump Basin, and the Spacer Silo) and the following 200 Area Inactive Facilities: 202S (REDOX), 233S (Plutonium Concentration Facility), and 221S (U Plant).
CURRENT CONTAINER COMMENTS	Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W431	Handling:	RH	NMVP #:	N/A	Stream Name:	327 Non-surplus Facility Mgmt Prg D&D MTRU/RH	Inventory Date:	12/31/94
Local ID:		Type:	MTRU	Generator Site:		Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5420

AS-GENERATED EPA CODES

D008A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	68.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	60.0	0.0	0.0
Other Inorganic Material:	35.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	5.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	6.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	0.0	8.9	8.9
Totals	0.0	0.0	0.0	0.0	8.9	8.9

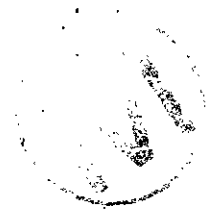
Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	0.0	8.9	8.9
Totals	0.0	0.0	0.0	0.0	8.9	8.9

As-Generated Form: Stored: 0.0 Projected: 8.9 Total: 8.9

Final Waste Form: Stored: 0.0 Projected: 8.9 Total: 8.9

WASTE STREAM DESCRIPTION	The waste stream typically contains equipment including but not limited to saws, manipulators, hoists, hoods, lathes, and cabinetry.
WASTE STREAM SOURCE	The waste stream is large tanks/dissolvers/pumps/concentrator. Size reduction is required to package the waste into RH canisters.
CURRENT CONTAINER COMMENTS	Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	The research and development roles expected to be assumed by 327 before closure have not been defined.
FINAL FORM COMMENTS	N/A



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W432	Handling:	RH	NMVP #:	N/A	Stream Name:	202A Non-surplus Facility Mgmt Prg D&D MTRU/RH	Inventory Date:	12/31/94
Local ID:		Type:	MTRU	Generator Site:		Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5110

AS-GENERATED EPA CODES

Uncompiled

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	241.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.80E-02
Ba-137m	9.30E-02
C-14	9.90E-04
Cs-137	9.80E-02
H-3	1.90E-04
I-129	4.10E-09
Np-237	1.70E-08
Pu-238	4.50E-04
Am-241	1.90E-03
Pu-240	6.20E-04
Y-90	7.80E-02
Pu-242	2.20E-07
Rh-106	2.60E-03
Ru-106	2.60E-03
Se-79	8.00E-07
Sm-151	1.60E-03
Sr-90	7.80E-02
U-234	1.70E-06
U-235	6.70E-08
U-236	2.20E-07
U-238	1.20E-06
Pu-239	1.10E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	0.0	35.6	35.6
Totals	0.0	0.0	0.0	0.0	35.6	35.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	0.0	35.6	35.6
Totals	0.0	0.0	0.0	0.0	35.6	35.6

As-Generated Form: Stored: 0.0 Projected: 35.6 Total: 35.6

Final Waste Form: Stored: 0.0 Projected: 35.6 Total: 35.6

WASTE STREAM DESCRIPTION	The waste stream is large tanks/dissolvers/pumps/concentrator. Size reduction is required to package the waste into RH canisters.
WASTE STREAM SOURCE	Cleanout of contaminated equipment/removable piping etc. from PUREX facility.
CURRENT CONTAINER COMMENTS	Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W433	Handling:	RH	NMVP #:	N/A	Stream Name:	221T/2706T Non-surplus Facility Mgmt Prg D&D MTRU/RH	Inventory Date:	12/31/94
Local ID:		Type:	MTRU	Generator Site:		Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

Uncompiled

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	0.0	676.4	676.4
Totals	0.0	0.0	0.0	0.0	676.4	676.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	0.0	676.4	676.4
Totals	0.0	0.0	0.0	0.0	676.4	676.4

As-Generated Form: Stored: 0.0 Projected: 676.4 Total: 676.4

Final Waste Form: Stored: 0.0 Projected: 676.4 Total: 676.4

WASTE STREAM DESCRIPTION	The waste stream ranges from contaminated clothing to process equipment, contaminated with RCRA regulated constituents.
WASTE STREAM SOURCE	Facility clean-out and D&D waste from the T-Plant Canyon and Decontamination facility.
CURRENT CONTAINER COMMENTS	Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W434	Handling:	RH	NMVP #:	N/A	Stream Name:	2345Z Non-surplus Facility Mgmt Prg D&D MTRU/RH	Inventory Date:	12/31/94
Local ID:		Type:	MTRU	Generator Site:		Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5110

AS-GENERATED EPA CODES: D009A, D008A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	190.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	52.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE: N/A

FINAL FORM RADIONUCLIDES: N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	0.0	2509.8	2509.8
Totals	0.0	0.0	0.0	0.0	2509.8	2509.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	0.0	2509.8	2509.8
Totals	0.0	0.0	0.0	0.0	2509.8	2509.8

As-Generated Form:	Stored:	0.0	Projected:	2509.8	Total:	2509.8	Final Waste Form:	Stored:	0.0	Projected:	2509.8	Total:	2509.8

WASTE STREAM DESCRIPTION	This waste stream is major processing equipment, piping, ductwork, and gloveboxes resulting fron the cleanout and D&D of PFP.
WASTE STREAM SOURCE	Cleanout and D&D of the Plutonium Finishinf Plant and Plutonium Processing Facility.
CURRENT CONTAINER COMMENTS	Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W435	Handling:	RH	NMVP #:	N/A	Stream Name:	340 Non-surplus Facility Mgmt Prg D&D MTRU/RH	Inventory Date:	12/31/94
Local ID:		Type:	MTRU	Generator Site:		Final Waste Form:	Heterogeneous	Waste Matrix Code:	U9999

AS-GENERATED EPA CODES

Uncompiled

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

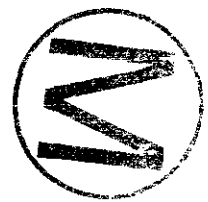
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	0.0	26.7	26.7
Totals	0.0	0.0	0.0	0.0	26.7	26.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	0.0	0.0	26.7	26.7
Totals	0.0	0.0	0.0	0.0	26.7	26.7

As-Generated Form: Stored: 0.0 Projected: 26.7 Total: 26.7

Final Waste Form: Stored: 0.0 Projected: 26.7 Total: 26.7



WASTE STREAM DESCRIPTION	This waste stream includes both TRU and mixed TRU. This waste consists of pumps, thermal couples, and piping contaminated with TRU elements. This equipment cannot be fit into standard size boxes.
WASTE STREAM SOURCE	This waste is incident, non-process waste from single-shell tanks.
CURRENT CONTAINER COMMENTS	Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: RL-W436 | Handling: RH | NMVP #: N/A | Stream Name: TWRS Long-Length Tank Equipment MTRU/RH | Inventory Date: 12/31/94
Local ID: | Type: MTRU | Generator Site: | Final Waste Form: Uncategorized Metal | Waste Matrix Code: S5119

AS-GENERATED EPA CODES

F005, D007, D002B, F003, F002, F001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	596.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	434.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	464.7		
Packaging Material Steel Plug:	2145.1		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	240.3	2990.4	7047.0	10277.7
Totals	0.0	0.0	240.3	2990.4	7047.0	10277.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
RH Canister	0.0	0.0	240.3	2990.4	7047.0	10277.7
Totals	0.0	0.0	240.3	2990.4	7047.0	10277.7

As-Generated Form: Stored: 0.0 Projected: 10277.7 Total: 10277.7

Final Waste Form: Stored: 0.0 Projected: 10277.7 Total: 10277.7

WASTE STREAM DESCRIPTION	Equipment removed from the high level waste tanks (instrument trees, pumps, circulators, agitators, heaters, sluicers, steam coils, air lances, cameras)
WASTE STREAM SOURCE	High Level Waste Tanks (A-101, AN-102, AN-104, AN-107, AZ-101. BY103, C-102, C-103, C-104, C-105, C-106, TX-118)
CURRENT CONTAINER COMMENTS	Size reduction is assumed for large items. Volume is assumed to remain the same as a result of size reduction.
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W437	Handling:	CH	NMVP #:	N/A	Stream Name:	Surplus Facility Mgmt Prg D&D TRU/CH	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:		Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	11.9	147.9	571.6	28.1	759.4
Totals	0.0	11.9	147.9	571.6	28.1	759.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	11.9	147.9	571.6	28.1	759.4
Totals	0.0	11.9	147.9	571.6	28.1	759.4

As-Generated Form: Stored: 0.0 Projected: 759.4 Total: 759.4

Final Waste Form: Stored: 0.0 Projected: 759.4 Total: 759.4

WASTE STREAM DESCRIPTION	The waste stream is surplus facilities cleanout and D&D wastes, ranging from contaminated clothing to process equipment and sludges.
WASTE STREAM SOURCE	Cleanout and D&D of all 100 Area Inactive Facalities (includung C, D, DR, KE, KW, H, F, and N reactors, 104F and H Storage Basins, 100N Deactivation, N Basin Cleanout, Emergency Dump Basin, and the Spacer Silo) and the following 200 Area Inactive Facilities: 202S (REDOX), 233S (Plutonium Concentration Facility), and 221S (U Plant).
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W438	Handling:	CH	NMVP #:	N/A	Stream Name:	Non-transition program TRU/CH	Inventory Date:	
Local ID:		Type:	TRU	Generator Site:		Final Waste Form:	Heterogeneous	Waste Matrix Code:	U9999

AS-GENERATED EPA CODES	TRUCON CODE	FINAL FORM RADIONUCLIDES
N/A	N/A	N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

WASTE VOLUME DETAIL (cu. meters)

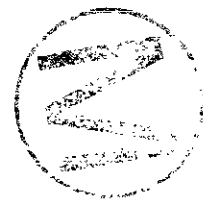
As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	60.3	488.0	548.3
Standard Waste Box	0.0	0.0	0.0	121.0	427.1	548.1
Totals	0.0	0.0	0.0	181.3	915.1	1096.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	120.6	427.6	548.3
Standard Waste Box	0.0	0.0	0.0	121.0	427.1	548.1
Totals	0.0	0.0	0.0	241.6	854.8	1096.4

As-Generated Form:	Stored:	0.0	Projected:	1096.4	Total:	1096.4	Final Waste Form:	Stored:	0.0	Projected:	1096.4	Total:	1096.4



WASTE STREAM DESCRIPTION	Description is presently not available; however typical deactivation waste includes cleanout and removal of equipment, mixers, tanks, vessels and pumps.
WASTE STREAM SOURCE	This represents wastes from deactivation and terminal cleanout activities from facilities not covered under the DOE/EM40 Facilities.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

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

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	122.3	1162.5	3121.0	1529.8	5935.7
Totals	0.0	122.3	1162.5	3121.0	1529.8	5935.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	122.3	1162.5	3121.0	1529.8	5935.7
Totals	0.0	122.3	1162.5	3121.0	1529.8	5935.7

As-Generated Form: Stored: 0.0 Projected: 5935.7 Total: 5935.7

Final Waste Form: Stored: 0.0 Projected: 5935.7 Total: 5935.7

WASTE STREAM DESCRIPTION	This waste stream consists of soil contaminated with liquid solutions, previously buried solid waste, and associated contaminated soil, and sludges from previously used tanks or tank-like units.
WASTE STREAM SOURCE	The waste is from retrieval of contaminated soils. The waste may also include solid waste from past practice burial grounds and solidified sludge from miscellaneous past practice tanks.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W440	Handling:	CH	NMVP #:	N/A	Stream Name:	K Basins Operations TRU/CH	Inventory Date:	
Local ID:		Type:	TRU	Generator Site:		Final Waste Form:	Heterogeneous	Waste Matrix Code:	U9999

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

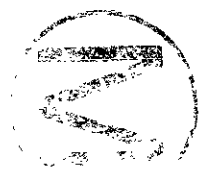
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	41.0	133.1	0.0	0.0	174.1
Standard Waste Box	0.0	32.1	0.0	0.0	0.0	32.1
Totals	0.0	73.1	133.1	0.0	0.0	206.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	41.0	133.1	0.0	0.0	174.1
Standard Waste Box	0.0	32.1	0.0	0.0	0.0	32.1
Totals	0.0	73.1	133.1	0.0	0.0	206.2

As-Generated Form: Stored: 0.0 Projected: 206.2 Total: 206.2

Final Waste Form: Stored: 0.0 Projected: 206.2 Total: 206.2



WASTE STREAM DESCRIPTION	Waste consists of rags, plastic, paper, rubber, and absorbed liquids and sludges.
WASTE STREAM SOURCE	This waste is from operations of the N-Reactor fuel storage basins.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	This is a new waste stream from the BEMR data call. Characterization data is not available at this time.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W441	Handling:	CH	NMVP #:	N/A	Stream Name:	K Basin Project TRU/CH	Inventory Date:	
Local ID:		Type:	TRU	Generator Site:		Final Waste Form:	Heterogeneous	Waste Matrix Code:	U9999

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

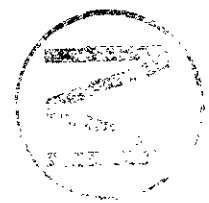
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.2	0.0	0.0	0.0	0.2
Totals	0.0	0.2	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.2	0.0	0.0	0.0	0.2
Totals	0.0	0.2	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.0 Projected: 0.2 Total: 0.2

Final Waste Form: Stored: 0.0 Projected: 0.2 Total: 0.2



WASTE STREAM DESCRIPTION	Waste consists of iron-based metal, rags, paper, plastic, and rubber.
WASTE STREAM SOURCE	Source is incidental waste associated with spent fuel.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	This is a new waste stream from the BEMR data call. Characterization data is not available at this time.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W442	Handling:	CH	NMVP #:	N/A	Stream Name:	TWRS Cross-Site Transfer Project TRU/CH	Inventory Date:	
Local ID:		Type:	TRU	Generator Site:		Final Waste Form:	Heterogeneous	Waste Matrix Code:	U9999

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Facility/Equipment Operation and Maintenance Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

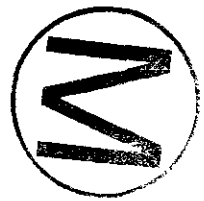
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	0.0	5.7	0.0	0.0	0.0	5.7
Totals	0.0	5.7	0.0	0.0	0.0	5.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	0.0	5.7	0.0	0.0	0.0	5.7
Totals	0.0	5.7	0.0	0.0	0.0	5.7

As-Generated Form: Stored: 0.0 Projected: 5.7 Total: 5.7

Final Waste Form: Stored: 0.0 Projected: 5.7 Total: 5.7



WASTE STREAM DESCRIPTION	Waste consists of contaminated soil that may be encountered during placement of a tank transfer line. This line is being placed adjacent to an existing line. The transfer line provides capability to transfer highly radioactive liquid waste among Hanford's high-level waste tanks.
WASTE STREAM SOURCE	This is a waste that will be generated from a project to improve the cross-site tank transfer pipeline.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	This is a new waste stream from the BEMR data call. Characterization data is not available at this time.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W443	Handling:	CH	NMVP #:	N/A	Stream Name:	Surplus Facility Mgmt Prg D&D MTRU/CH	Inventory Date:	
Local ID:		Type:	MTRU	Generator Site:		Final Waste Form:	Heterogeneous	Waste Matrix Code:	S4200

AS-GENERATED EPA CODES

D009X, D002B, D001C

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Remediation/D&D Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	62.8	577.6	28.1	668.5
Totals	0.0	0.0	62.8	577.6	28.1	668.5

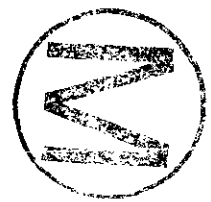
Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	62.8	577.6	28.1	668.5
Totals	0.0	0.0	62.8	577.6	28.1	668.5

As-Generated Form: Stored: 0.0 Projected: 668.5 Total: 668.5

Final Waste Form: Stored: 0.0 Projected: 668.5 Total: 668.5

WASTE STREAM DESCRIPTION	The waste stream is surplus facilities cleanout and D&D wastes, ranging from contaminated clothing to process equipment and sludges.
WASTE STREAM SOURCE	Cleanout and D&D of all 100 Area Inactive Facilities (includung C, D, DR, KE, KW, H, F, and N reactors, 104F and H Storage Basins, 100N Deactivation, N Basin Cleanout, Emergency Dump Basin, and the Spacer Silo) and the following 200 Area Inactive Facilities: 202S (REDOX), 233S (Plutonium Concentration Facility), and 221S (U Plant).
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	RL-W444	Handling:	CH	NMVP #:	N/A	Stream Name:	Non-transition Program MTRU/CH	Inventory Date:	
Local ID:		Type:	MTRU	Generator Site:		Final Waste Form:	Heterogeneous	Waste Matrix Code:	U9999

AS-GENERATED EPA CODES

Uncompiled

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Source Unknown

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	17.9	63.6	81.5
Standard Waste Box	0.0	0.0	0.0	18.9	68.0	86.9
Totals	0.0	0.0	0.0	36.8	131.7	168.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	17.9	63.6	81.5
Standard Waste Box	0.0	0.0	0.0	18.9	68.0	86.9
Totals	0.0	0.0	0.0	36.8	131.7	168.5

As-Generated Form: Stored: 0.0 Projected: 168.5 Total: 168.5

Final Waste Form: Stored: 0.0 Projected: 168.5 Total: 168.5

WASTE STREAM DESCRIPTION	Description is presently not available; however typical deactivation waste includes cleanout and removal of equipment, mixers, tanks, vessels and pumps.
WASTE STREAM SOURCE	This represents wastes from deactivation and terminal cleanout activities from facilities not covered under the DOE/EM40 Facilities.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

SA Sandia National Laboratories - New Mexico

SANDIA NATIONAL LABORATORIES

Location and Description

Sandia National Laboratories/New Mexico (SNL/NM) is located immediately southeast of Albuquerque, New Mexico, on Kirtland Air Force Base. The SNL/NM consists not only of the headquarters facilities in Albuquerque, New Mexico, but also the laboratory facility in Livermore, California, the Tonopah Test Range in Nevada, and occupies about 7,600 acres (not including Tonopah Test Range).

Prior to the Trinity shot in 1945, the Manhattan project had a small facility on Sandia Base (now Kirtland AFB) to perform ordnance engineering, nonnuclear atomic bomb assembly and military training. In March 1948, the Sandia Laboratory was established as a formal branch of the Los Alamos Scientific Laboratory (LASL) now LA. In 1949, Sandia Corporation was organized as a wholly-owned subsidiary of the Western Electric Company, and approximately 1,700 LASL employees were transferred. In 1984, Sandia Corporation became a wholly-owned subsidiary of the AT&T Technologies Corporation.

SNL/NM is administered by the DOE/Albuquerque Operations Office and is currently operated by the Lockheed Martin Corporation.

Mission

SNL/NM's mission was research, development, and engineering of nuclear weapons systems except for the nuclear explosive. This included nuclear weapons systems ordnance engineering, nonnuclear component design and development, field and laboratory testing, and manufacturing engineering.

SNL/NM has operated the Tonopah Test Range near Tonopah, Nevada, since the range was established in 1957. The site is located about 322 kilometers northwest of Las Vegas, Nevada, on 1360 squire kilometers of land provided by the Air Force in accordance with a use permit. Tonopah Test Range is a major facility for the field testing of nonnuclear and denuclearized weapons, research rockets, and artillery. Aerodynamic stability, the compatibility of various ballistic shapes, trajectories, times of fall, accuracy of delivery, and functioning of fuzing components are tested under conditions simulating actual use. Certain types of high explosive ordnance are also tested at the test range.

Waste Information

Processes

One of SNL/NM's generators is the Inhalation Toxicology Research Institute (IT). Since 1960, ITRI has performed a variety of research programs for the DOE. The original research was dedicated to the evaluation of health effects caused by inhalation of fission products. Research is now conducted on the health effects of transuranic elements such as plutonium, americium, curium, and nonradioactive airborne materials in various environments.

Modifications/Assumptions/Development

Waste streams that are expected to be directly shipped to WIPP (upon WIPP–WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double– counting these streams as both "as generated currently stored" and "final form projected."

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: SA-T001	Handling: CH	NMVP #: na	Stream Name: Lovelace ITRI Waste Stream		Inventory Date: 5/10/95
Local ID: NA	Type: TRU	Generator Site: IT	Final Waste Form: Heterogeneous		Waste Matrix Code: S5000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	100.0	10.0	110.0
Aluminum-base Metal/Alloys:	3.0	1.0	5.0
Other Metals/Alloys:	6.0	2.0	10.0
Other Inorganic Material:	15.0	10.0	20.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	3.0	1.0	5.0
Rubber:	5.0	1.0	9.0
Plastics:	5.0	2.0	8.0
Solidified Inorganic Material:	40.0	20.0	60.0
Solidified Organic Material:	5.0	1.0	9.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	100.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-239	5.00E-01
Np-237	1.20E-02
Cm-244	8.00E-01
Am-241	2.50E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	5.4	0.6	1.0	2.1	2.1	11.2
Totals	5.4	0.6	1.0	2.1	2.1	11.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	5.4	0.6	1.0	2.1	2.1	11.2
Totals	5.4	0.6	1.0	2.1	2.1	11.2

As-Generated Form: Stored: 5.4 Projected: 5.8 Total: 11.2

Final Waste Form: Stored: 5.4 Projected: 5.8 Total: 11.2

WASTE STREAM DESCRIPTION	Waste is in final form.
WASTE STREAM SOURCE	Heterogeneous mixture of metals and combustible lab trash including solidified waste, stainless steel, brass and aluminum parts, paper, plastics, rubber gloves, PPE, hepa filters and glass. There are no liquids or compressed gasses. All drums were verified through Real Time Radiography, (RTR).
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The entire waste stream was viewed through Real Time Radiography and videotapes and photographs of the waste are on file. In addition, the process knowledge from Lovelace ITRI indicates that contaminants are not present.
MANAGEMENT COMMENTS	This waste stream has been characterized by process knowledge as TRU waste. The waste is not mixed.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SA-W134	Handling:	CH	NMVP #:	na	Stream Name:	Transuranic Waste at Hot Cell Facility
Local ID:	NA	Type:	TRU	Generator Site:	SA	Final Waste Form:	Heterogeneous

Inventory Date: 12/31/94

Waste Matrix Code: S5490

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	80.0	10.0	100.0
Aluminum-base Metal/Alloys:	5.0	1.0	10.0
Other Metals/Alloys:	10.0	4.0	15.0
Other Inorganic Material:	1.0	1.0	1.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	2.0	1.0	3.0
Rubber:	2.0	1.0	3.0
Plastics:	5.0	1.0	10.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

Unassigned

FINAL FORM RADIONUCLIDES

N/A

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	1.2	1.7	0.0	0.0	0.0	2.9
Totals	1.2	1.7	0.0	0.0	0.0	2.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.2	1.7	0.0	0.0	0.0	2.9
Totals	1.2	1.7	0.0	0.0	0.0	2.9

As-Generated Form: Stored: 1.2 Projected: 1.7 Total: 2.9

Final Waste Form: Stored: 1.2 Projected: 1.7 Total: 2.9

WASTE STREAM DESCRIPTION	Waste is remoted-handled material. Some TRU waste is currently stored in Technical Area V, Bldg. 6580, and 2 drums are stored in Manzano Bunker 7063. Some of the waste is in concrete-shielded containers. Waste stream includes some solidified liquids and labware and related items removed from glove boxes. The waste matrix identified was based on information provided by the generator and may change in the future as additional examination of the waste is performed. Presently, this waste stream is RH, but is reported as CH because the Final Waste Form will be CH.
WASTE STREAM SOURCE	This waste stream was generated during SNL Hot Cell Facility expirements that including the cutting of fuel rods. There are no liquids or compressed gasses in this waste stream.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	The confidence level of regulated contaminants is based on process knowledge supplied by the waste generator. No sampling and analysis has been performed.
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	8 drums of tru waste are est[illegible]ed to be generated with the FY1996 hot cell decontamination project. This is a one time generation.

SR

Savannah River Site

SAVANNAH RIVER SITE

Location and Description

The Savannah River Site (SRS) is located about 31 kilometers southeast of Aiken, South Carolina, on 198,334 acres (803 square kilometers) along the Savannah River. The SRS encompasses parts of three counties, Aiken, Barnwell, and Allendale in western South Carolina. The closest major cities are Aiken, South Carolina, and Augusta, Georgia. The site is a controlled area with limited public access. The facilities occupy less than 8 percent of the site. The remaining 92 percent is divided into forest (80%) and wetlands (20%).

The Savannah River Site is a government owned, contractor operated (GOCO) site that is managed by the DOE Savannah River Operations Office. The current Management and Operating Contractor for the Site is Westinghouse Savannah River Company.

Mission

The primary mission of the SRS has been to support national security as a major source of reactor-produced materials, primarily tritium, plutonium, heavy water (deuterium) and other special nuclear materials for weapons manufacturing. The mission was broadened over the years to include the production of other isotopes, such as Pu-238. SRS's production activities also included the loading of tritium containers for the nuclear weapons, reclamation of tritium containers and the purification of tritium recovered from retired weapons.

The decision in 1950 to go ahead with the Savannah River Plant was driven by the perceived need for tritium in the fusion weapon program following President Truman's directive of January 31, 1950, to develop a thermonuclear weapon (the "super"). While production of tritium in the Hanford reactor had been demonstrated, the new plant at Savannah River was necessary to avoid serious curtailment in the production of plutonium at Hanford for the fission program. If thermonuclear weapons proved unfeasible or tritium requirements turned out to be less than anticipated, the construction of Savannah River was further justified in order to increase plutonium production, to provide a higher efficiency in the use of uranium ore, to provide security against attack of the Hanford reactors, and to provide replacement reactors in the event of the retirement of older Hanford reactors.

Five reactors (currently shut down), two chemical processing plants, a tritium extraction, purification, and loading facility, and a high-level waste solidification facility comprise the major elements of the Defense Program operations and facilities at SRS.

The SRS waste management mission is to comply with applicable federal and state regulations, DOE Orders, and the Management and Operating Contractor policies, to minimize effects on the environment and the generation of new waste, and to the extent possible, contain waste handling, treatment, storage, and disposal within the site. Other mission objectives include the demonstration and application of remediation technologies and the environmental restoration of the SRS site. With the changing defense posture, environmental restoration is receiving increased emphasis versus weapons materials production.

Waste Information

Processes

At SRS, production of useful radioactive isotopes is accompanied by production of radioactive waste. These wastes must be safely contained and stored until the risk associated with their radioactivity is eliminated by decay or the waste is permanently disposed. In both production and power nuclear reactors, neutrons strike uranium-235 atoms in the reactor fuel, add energy and cause the atoms to become unstable and split apart or "fission." This results in the production of fission products and more neutrons, initiating a sustained chain reaction and a steady supply of neutrons. In addition to fuel, the SRS reactors contained long cylinders of material called targets. When neutrons strike the targets, useful radionuclides are created through transmutation. The fuel and target assemblies are then removed from the reactor and, after a suitable cooling period, are sent to the chemical separation areas for processing to recover the desired radionuclides (uranium, plutonium, tritium, etc).

Currently, TRU waste at SRS is generated primarily from radiochemical separations processes, analytical laboratories, and research and development activities. Primary contaminants in the waste are Pu-238 and Pu-239. The major on-site facilities that generate TRU waste are the FB-Line, the HB Line, 235-F, 772-F, and 773-A.

FB-Line and HB-Line generate TRU waste containing plutonium and neptunium. The waste is generated during the use of gloveboxes, contamination control huts, and decontamination processes waste. TRU waste is placed in 5-gallon cans, assayed, sealed in a drum liner, and placed in 55-gallon drums before transport to the waste TRU storage facility.

In the HB Separation Line, uranium, neptunium (Np) and plutonium (Pu) are recovered from irradiated enriched uranium fuels and transferred to the HB line for processing. The HB line uses three independent facilities to process Np, Pu, and recoverable scrap. TRU waste, containing Pu-238, is generated during decontamination operations, replacement of equipment, maintenance, inspection, and sampling.

In the FB Separation Line, irradiated metal alloys from the reactors are dissolved and separated into uranium, Pu metal, and high-level liquid waste using the Purex process. Uranium and plutonium are recovered and TRU waste, containing Pu-239 is generated during decontamination operations, maintenance, inspection, replacement of equipment, sampling and laboratory analysis.

The 235-F facility generates TRU waste from three waste streams, the Actinide Billet Line, the Plutonium Experimental Facility, and Plutonium Fuel Fabrication. The three streams yield neptunium and plutonium isotopes. Waste materials consist of lead-lined gloves, neoprene gloves, process waste, equipment, and filters.

The 772-F TRU waste generated in the Central Laboratory Facility results from the handling and analysis of various plutonium and neptunium samples. The routine laboratory TRU solid waste consists of paper, plastic, glass, metal, lead-lined gloves, HEPA filters, and IX resins.

The 773-A, the Savannah River Technology Center (SRTC) Solid Waste Assay Facility (SWAF) receives boxes of waste from other laboratories within the SRTC complex. The SWAF processes includes x-raying, weighing, and assaying the boxes. After processing, the waste boxes are placed in drums before shipping to the site waste disposal facility.

Solid TRU waste, such as processing equipment, glassware, and gloveboxes too large for 55-gallon drums are packaged and stored in large steel or concrete containers. The separation areas produce most of the solid TRU waste.

Off-site generators that have sent TRU waste to SRS are Los Alamos National Laboratory, Mound Laboratory, Allied-General Nuclear Services, National Institute of Standards Technology, General Sciences, Department of Defense, and Knolls Atomic Power Laboratory.

Modifications/Assumptions/Development

Savannah River's Vitrified waste stream Waste Material Parameters were recalculated by the TWBIR team to provide closure approximations to the 1000 lbs per 55 gallon drum weight limits required by the TRUPACT-II Safety Analysis Report for Packaging (SARP). In recalculating these parameters the volumes and number of final form containers were increased. This increase may hinder SRS's cost effectiveness for shipment to WIPP.

The composition of SRS final waste forms was determined using acceptable knowledge (Processing knowledge) and existing waste form research work performed by Savannah River Technical Center (SRTC).

A combination of waste descriptions, waste codes, and acceptable knowledge were used to determine the general waste types stored at SRS. This includes only the waste types affecting the final waste forms.

Waste stream volumes for SR-T001, SR-W006, SR-W026, SR-W027, and SR-W053 were separated and reported by generator and waste types.

Waste, which is classified because of shape, was identified and reported separately by SRS. The shape of this waste is expected to be destroyed during waste processing. Other classified waste was not reported by SRS because of the contents of the waste.

Waste volumes and number of containers to be shipped to WIPP were based on the type of disposal container used, the size reduction factors after waste processing, and the volume of waste to be processed. The volume of waste to be processed was based on TRU waste volumes as of 12/31/94 and waste forecasts contained in the Proposed Site Treatment Plan (PSTP) and the Waste Management Environment Impact Statement (WMEIS). These forecasts include TRU waste from operational, D&D, and ER activities.

Most of SRS's metal waste is currently packaged in large steel boxes. The waste in these steel boxes is (assumed by the site to be) 80% bulk metal and 20% heterogeneous debris. The size reduction factor for large metal components is 3.5 to 1.

No volume reduction is expected from the repackaging of heterogeneous waste streams.

The preferred technology for treating SRS TRU waste is solidification by vitrification (i.e., Hybrid Plasma Treatment). The process design provides sufficient mixing controls to ensure WIPP WAC compliance. The assumed volume reduction factor using this technology is 30 to 1. This factor applies to waste streams SR-W026, SR-W027, SR- T001, SR-T003. SR-W053, and SR-W006.

Waste streams that are expected to be directly shipped to WIPP (upon WIPP-WAC certification) without any need for repackaging or treatment are reported as "currently stored" in final form volume. For waste streams that are currently stored but are projected to be repackaged and/or treated at a later date prior to their shipment to WIPP, are also reported as "currently stored." This is done in order to avoid the error of double- counting these streams as both "as generated currently stored" and "final form projected."

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W074	Handling:	CH	NMVP #:	sr125A	Stream Name:	CH TRU - Heterogeneous debris from 221F			Inventory Date:	12/31/94
Local ID:	SR-T001	Type:	TRU	Generator Site:	SR	Final Waste Form:	Heterogeneous			Waste Matrix Code:	S5000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.1	0.0	4.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	115.8	0.0	576.9
Rubber:	11.1	0.0	47.8
Plastics:	33.3	0.0	84.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

SR125A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
Others	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / 12ft W x 18ft L x 7ft H	382.5	85.0	212.5	85.0	0.0	765.0
Drum / 55-gallon	49.0	89.6	176.0	88.0	45.2	447.7
Totals	431.5	174.6	388.5	173.0	45.2	1212.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	938.7	0.0	0.0	0.0	1598.5	2537.2
Totals	938.7	0.0	0.0	0.0	1598.5	2537.2

As-Generated Form: Stored: 431.5 Projected: 781.3 Total: 1212.7

Final Waste Form: Stored: 938.7 Projected: 1598.5 Total: 2537.2

WASTE STREAM DESCRIPTION	This waste stream is defense related, contact handled TRU waste and is composed of Job Control waste, sludges and resins, HEPA filters and large, metal equipment
WASTE STREAM SOURCE	The stream was produced in 221 FB line, a separations facility for the production of Pu-239.
CURRENT CONTAINER COMMENTS	Radionuclide concentrations may vary from 3.2.6.
EPA COMMENTS	
MANAGEMENT COMMENTS	The current plan is to assay, sort, size reduce and characterize the job control waste in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The liquids, sludges and resins will be vitrified, the HEPA filters affixed and the heterogeneous debris repackaged prior to shipment to WIPP. The possibility exists that treatment (vitrification) may be required for the heterogeneous debris containing Pu238 since it is currently not economical to ship PU238 in the TRUPACT.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W074	Handling:	CH	NMVP #:	undetermined	Stream Name:	CH TRU - Metal debris from 221F	Inventory Date:	12/31/94
Local ID:	SR-T001	Type:	TRU	Generator Site:	SR	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	83.7	0.0	317.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	195.2	0.0	1586.5
Other Inorganic Material:	19.3	0.0	19.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	154.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No.

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

undetermined

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
Others	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / 12ft W x 18ft L x 7ft H	382.5	212.5	425.0	170.0	85.0	1275.0
Totals	382.5	212.5	425.0	170.0	85.0	1275.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	23.8	0.0	0.0	0.0	70.7	94.5
Totals	23.8	0.0	0.0	0.0	70.7	94.5

As-Generated Form: Stored: 382.5 Projected: 892.5 Total: 1275.0

Final Waste Form: Stored: 23.8 Projected: 70.7 Total: 94.5

WASTE STREAM DESCRIPTION	This waste stream is defense related, contact handled TRU waste and is composed of Job Control waste, sludges and resins, HEPA filters and large, metal equipment
WASTE STREAM SOURCE	This stream was produced in 221 FB Line, a separations facility for the production of Pu-239.
CURRENT CONTAINER COMMENTS	Radionuclide concentrations may vary from 3.2.6.
EPA COMMENTS	
MANAGEMENT COMMENTS	The current plan is to assay, sort, size reduce and characterize the job control waste in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The liquids, sludges and resins will be vitrified, the HEPA filters affixed and the heterogeneous debris repackaged prior to shipment to WIPP. The possibility exists that treatment (vitrification) may be required for the heterogeneous debris containing Pu238 since it is currently not economical to ship PU238 in the TRUPACT.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W074	Handling:	CH	NMVP #:	undetermined	Stream Name:	CH TRU - Vitrified debris from 221F			Inventory Date:	12/31/94
Local ID:	SR-T001	Type:	TRU	Generator Site:	SR	Final Waste Form:	Solidified Inorganics			Waste Matrix Code:	S5000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	1719.0	1559.0	2375.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	467.0	261.0	516.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

undetermined

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.00E+01
Pu-240	2.06E-01
Pu-239	8.35E-01
Pu-238	5.01E+01
Others	1.68E-01
Cm-244	1.04E-01
Am-241	1.80E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / 12ft W x 18ft L x 7ft H	467.5	127.5	212.5	212.5	0.0	1020.0
Box / 16in W x 29in L x 32in H	24.5	21.7	42.1	21.4	11.0	120.6
Drum / 55-gallon	10.1	38.3	75.1	38.3	19.4	181.2
Totals	502.1	187.4	329.7	272.2	30.4	1321.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	23.2	0.0	0.0	0.0	141.0	164.2
Totals	23.2	0.0	0.0	0.0	141.0	164.2

As-Generated Form: Stored: 502.1 Projected: 819.7 Total: 1321.8

Final Waste Form: Stored: 23.2 Projected: 141.0 Total: 164.2

WASTE STREAM DESCRIPTION	This waste stream is defense related, contact handled TRU waste and is composed of Job Control waste, sludges and resins, HEPA filters and large, metal equipment
WASTE STREAM SOURCE	This stream was produced in 221 FB Line, a separations facility for the production of Pu-239.
CURRENT CONTAINER COMMENTS	Radionuclide concentrations may vary from 3.2.6.
EPA COMMENTS	
MANAGEMENT COMMENTS	The current plan is to assay, sort, size reduce and characterize the job control waste in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The liquids, sludges and resins will be vitrified, the HEPA filters affixed and the heterogeneous debris repackaged prior to shipment to WIPP. The possibility exists that treatment (vitrification) may be required for the heterogeneous debris containing Pu238 since it is currently not economical to ship PU238 in the TRUPACT.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W074	Handling:	CH	NMVP #:	SR125A	Stream Name:	CH TRU - Heterogeneous debris from 221H	Inventory Date:	12/31/94
Local ID:	SR-T001	Type:	TRU	Generator Site:	SR	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.1	0.0	4.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	115.8	0.0	576.9
Rubber:	11.1	0.0	47.8
Plastics:	33.3	0.0	84.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

SR125A
Unassigned

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
Others	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / 12ft W x 18ft L x 7ft H	42.5	42.5	127.5	85.0	42.5	340.0
Drum / 55-gallon	28.1	46.4	78.1	45.0	27.0	224.6
Totals	70.6	88.9	205.6	130.0	69.5	564.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	158.1	0.0	0.0	0.0	971.5	1129.6
Totals	158.1	0.0	0.0	0.0	971.5	1129.6

As-Generated Form: Stored: 70.6 Projected: 493.9 Total: 564.6

Final Waste Form: Stored: 158.1 Projected: 971.5 Total: 1129.6

WASTE STREAM DESCRIPTION	This waste stream is defense related, contact handled TRU waste and is composed of Job Control waste, sludges and resins, HEPA filters and large, metal equipment
WASTE STREAM SOURCE	This stream was generated in 221 HB Line, a separation facility for the production of Pu-238.
CURRENT CONTAINER COMMENTS	Radionuclide concentrations may vary from 3.2.6.
EPA COMMENTS	
MANAGEMENT COMMENTS	The current plan is to assay, sort, size reduce and characterize the job control waste in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The liquids, sludges and resins will be vitrified, the HEPA filters affixed and the heterogeneous debris repackaged prior to shipment to WIPP. The possibility exists that treatment (vitrification) may be required for the heterogeneous debris containing Pu238 since it is currently not economical to ship PU238 in the TRUPACT.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W074	Handling:	CH	NMVP #:	undetermined	Stream Name:	CH TRU - Metal debris from 221H	Inventory Date:	12/31/94
Local ID:	SR-T001	Type:	TRU	Generator Site:	SR	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	83.7	0.0	317.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	195.2	0.0	1586.0
Other Inorganic Material:	19.3	0.0	19.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	154.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

undetermined

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
Others	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

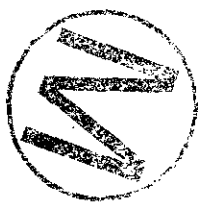
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / 12ft W x 18ft L x 7ft H	42.5	170.0	212.5	127.5	127.5	680.0
Totals	42.5	170.0	212.5	127.5	127.5	680.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	0.8	0.0	0.0	0.0	14.3	15.1
Totals	0.8	0.0	0.0	0.0	14.3	15.1

As-Generated Form: Stored: 42.5 Projected: 637.5 Total: 680.0

Final Waste Form: Stored: 0.8 Projected: 14.3 Total: 15.1



WASTE STREAM DESCRIPTION	This waste stream is defense related, contact handled TRU waste and is composed of Job Control waste, sludges and resins, HEPA filters and large, metal equipment
WASTE STREAM SOURCE	This stream was generated in 221HB Line, a separation facility for the production of Pu-238.
CURRENT CONTAINER COMMENTS	Radionuclide concentrations may vary from 3.2.6.
EPA COMMENTS	
MANAGEMENT COMMENTS	The current plan is to assay, sort, size reduce and characterize the job control waste in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The liquids, sludges and resins will be vitrified, the HEPA filters affixed and the heterogeneous debris repackaged prior to shipment to WIPP. The possibility exists that treatment (vitrification) may be required for the heterogeneous debris containing Pu238 since it is currently not economical to ship PU238 in the TRUPACT.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W074	Handling:	CH	NMVP #:	undetermined	Stream Name:	CH TRU - Vitrified debris from 221H	Inventory Date:	12/31/94
Local ID:	SR-T001	Type:	TRU	Generator Site:	SR	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S5000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	1719.0	1559.0	2375.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	467.0	261.0	516.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

undetermined

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.00E+01
Pu-240	2.06E-01
Pu-239	8.35E-01
Pu-238	5.01E+01
Others	1.68E-01
Cm-244	1.04E-01
Am-241	1.80E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / 12ft W x 18ft L x 7ft H	807.5	552.5	977.5	425.0	212.5	2975.0
Box / 16in W x 29in L x 32in H	23.2	39.0	65.8	36.5	23.2	187.7
Drum / 55-gallon	96.5	185.7	313.0	179.4	107.8	882.4
Totals	927.2	777.2	1356.2	640.8	343.5	4045.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	33.8	0.0	0.0	0.0	478.4	512.2
Totals	33.8	0.0	0.0	0.0	478.4	512.2

As-Generated Form: Stored: 927.2 Projected: 3117.8 Total: 4045.1

Final Waste Form: Stored: 33.8 Projected: 478.4 Total: 512.2

WASTE STREAM DESCRIPTION	This waste stream is defense related, contact handled TRU waste and is composed of Job Control waste, sludges and resins, HEPA filters and large, metal equipment
WASTE STREAM SOURCE	This stream was generated in 221 HB Line, a separations facility for the production of Pu-238.
CURRENT CONTAINER COMMENTS	Radionuclide concentrations may vary from 3.2.6.
EPA COMMENTS	
MANAGEMENT COMMENTS	The current plan is to assay, sort, size reduce and characterize the job control waste in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The liquids, sludges and resins will be vitrified, the HEPA filters affixed and the heterogeneous debris repackaged prior to shipment to WIPP. The possibility exists that treatment (vitrification) may be required for the heterogeneous debris containing Pu238 since it is currently not economical to ship PU238 in the TRUPACT.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W074	Handling:	CH	NMVP #:	SR125A	Stream Name:	CH TRU Heterogeneous debris from 235F	Inventory Date:	12/31/94
Local ID:	SR-T001	Type:	TRU	Generator Site:	SR	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.1	0.0	4.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	115.8	0.0	576.9
Rubber:	11.1	0.0	47.8
Plastics:	33.3	0.0	84.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

SR125A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
Others	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / 12ft W x 18ft L x 7ft H	42.5	0.0	0.0	0.0	42.5	85.0
Drum / 55-gallon	2.8	4.8	6.5	16.5	13.5	44.0
Totals	45.3	4.8	6.5	16.5	56.0	129.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	163.0	0.0	0.0	0.0	205.2	368.2
Totals	163.0	0.0	0.0	0.0	205.2	368.2

As-Generated Form: Stored: 45.3 Projected: 83.7 Total: 129.0

Final Waste Form: Stored: 163.0 Projected: 205.2 Total: 368.2

WASTE STREAM DESCRIPTION	This waste stream is defense related, contact handled TRU waste and is composed of Job Control waste, sludges and resins, HEPA filters and large, metal equipment
WASTE STREAM SOURCE	This stream was generated in 235F during separations activites for the production of Pu-238.
CURRENT CONTAINER COMMENTS	Radionuclide concentrations may vary from 3.2.6
EPA COMMENTS	
MANAGEMENT COMMENTS	The current plan is to assay, sort, size reduce and characterize the job control waste in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The liquids, sludges and resins will be vitrified, the HEPA filters affixed and the heterogeneous debris repackaged prior to shipment to WIPP. The possibility exists that treatment (vitrification) may be required for the heterogeneous debris containing Pu238 since it is currently not economical to ship PU238 in the TRUPACT.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W074	Handling:	CH	NMVP #:	Undetermined	Stream Name:	CH TRU - Metal debris from 235F	Inventory Date:	12/31/94
Local ID:	SR-T001	Type:	TRU	Generator Site:	SR	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	83.7	0.0	317.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	195.2	0.0	1586.5
Other Inorganic Material:	19.3	0.0	19.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	154.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

Undetermined

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
Others	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / 12ft W x 18ft L x 7ft H	42.5	0.0	0.0	0.0	42.5	85.0
Totals	42.5	0.0	0.0	0.0	42.5	85.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	0.0	0.0	0.0	0.0	1.9	1.9
Totals	0.0	0.0	0.0	0.0	1.9	1.9

As-Generated Form: Stored: 42.5 Projected: 42.5 Total: 85.0

Final Waste Form: Stored: 0.0 Projected: 1.9 Total: 1.9

WASTE STREAM DESCRIPTION	This waste stream is defense related, contact handled TRU waste and is composed of Job Control waste, sludges and resins, HEPA filters and large, metal equipment
WASTE STREAM SOURCE	This stream was generated in 235F during separation activities for the production of Pu-238.
CURRENT CONTAINER COMMENTS	Radionuclide concentrations may vary from 3.2.6.
EPA COMMENTS	
MANAGEMENT COMMENTS	The current plan is to assay, sort, size reduce and characterize the job control waste in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The liquids, sludges and resins will be vitrified, the HEPA filters affixed and the heterogeneous debris repackaged prior to shipment to WIPP. The possibility exists that treatment (vitrification) may be required for the heterogeneous debris containing Pu238 since it is currently not economical to ship PU238 in the TRUPACT.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W074	Handling:	CH	NMVP #:	Undetermined	Stream Name:	CH TRU - Vitrified debris from 235F	Inventory Date:	12/31/94
Local ID:	SR-T001	Type:	TRU	Generator Site:	SR	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S5000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	1719.0	1559.0	2375.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	467.0	261.0	516.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

undetermined

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.00E+01
Pu-240	2.06E-01
Pu-239	8.35E-01
Pu-238	5.01E+01
Others	1.68E-01
Cm-244	1.04E-01
Am-241	1.80E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / 12ft W x 18ft L x 7ft H	807.5	0.0	42.5	0.0	85.0	935.0
Box / 16in W x 29in L x 32in H	7.9	4.3	4.8	13.5	11.7	42.3
Drum / 55-gallon	4.0	19.0	24.2	65.2	56.1	168.5
Totals	819.4	23.4	71.5	78.7	152.8	1145.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	1.5	0.0	0.0	0.0	85.5	87.0
Totals	1.5	0.0	0.0	0.0	85.5	87.0

As-Generated Form: Stored: 819.4 Projected: 326.4 Total: 1145.8

Final Waste Form: Stored: 1.5 Projected: 85.5 Total: 87.0

WASTE STREAM DESCRIPTION	This waste stream is defense related, contact handled TRU waste and is composed of Job Control waste, sludges and resins, HEPA filters and large, metal equipment
WASTE STREAM SOURCE	This stream was generated in 235F during separations activities for the production of Pu-238.
CURRENT CONTAINER COMMENTS	Radionuclide concentrations may vary from 3.2.6.
EPA COMMENTS	
MANAGEMENT COMMENTS	The current plan is to assay, sort, size reduce and characterize the job control waste in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The liquids, sludges and resins will be vitrified, the HEPA filters affixed and the heterogeneous debris repackaged prior to shipment to WIPP. The possibility exists that treatment (vitrification) may be required for the heterogeneous debris containing Pu238 since it is currently not economical to ship PU238 in the TRUPACT.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W074	Handling:	CH	NMVP #:	SR125A	Stream Name:	CH TRU - Heterogeneous debris from 772F	Inventory Date:	12/31/94
Local ID:	SR-T001	Type:	TRU	Generator Site:	SR	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.1	0.0	4.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	115.6	0.0	576.9
Rubber:	11.1	0.0	47.8
Plastics:	33.3	0.0	84.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

SR125A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
Others	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / 12ft W x 18ft L x 7ft H	0.0	0.0	0.0	0.0	42.5	42.5
Drum / 55-gallon	21.8	0.4	0.8	1.2	1.0	25.2
Totals	21.8	0.4	0.8	1.2	43.5	67.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	29.1	0.0	0.0	0.0	11.5	40.6
Totals	29.1	0.0	0.0	0.0	11.5	40.6

As-Generated Form:	Stored:	21.8	Projected:	45.9	Total:	67.7	Final Waste Form:	Stored:	29.1	Projected:	11.5	Total:	40.6

WASTE STREAM DESCRIPTION	This waste stream is defense related, contact handled TRU waste and is composed of Job Control waste, sludges and resins, HEPA filters and large, metal equipment
WASTE STREAM SOURCE	This stream was produced in 772F, an analytical lab used to support H and F canyon processing, the Pu-238 program, etc.
CURRENT CONTAINER COMMENTS	Radionuclide concentrations may vary from 3.2.6.
EPA COMMENTS	
MANAGEMENT COMMENTS	The current plan is to assay, sort, size reduce and characterize the job control waste in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The liquids, sludges and resins will be vitrified, the HEPA filters affixed and the heterogeneous debris repackaged prior to shipment to WIPP. The possibility exists that treatment (vitrification) may be required for the heterogeneous debris containing Pu238 since it is currently not economical to ship PU238 in the TRUPACT.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W074	Handling:	CH	NMVP #:	Undetermined	Stream Name:	CH TRU - Metal debris from 772F	Inventory Date:	12/31/94
Local ID:	SR-T001	Type:	TRU	Generator Site:	SR	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	83.7	0.0	317.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	195.2	0.0	1586.5
Other Inorganic Material:	19.3	0.0	19.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	154.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

undetermined

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
Others	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / 12ft W x 18ft L x 7ft H	0.0	0.0	0.0	0.0	42.5	42.5
Totals	0.0	0.0	0.0	0.0	42.5	42.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	0.0	0.0	0.0	0.0	1.9	1.9
Totals	0.0	0.0	0.0	0.0	1.9	1.9

As-Generated Form; Stored: 0.0 Projected: 42.5 Total: 42.5

Final Waste Form; Stored: 0.0 Projected: 1.9 Total: 1.9

WASTE STREAM DESCRIPTION	This waste stream is defense related, contact handled TRU waste and is composed of Job Control waste, sludges and resins, HEPA filters and large, metal equipment
WASTE STREAM SOURCE	This stream was generated in 772F, an analytical lab used to support H and F canyon processing, Pu-238 program, etc.
CURRENT CONTAINER COMMENTS	Radionuclide concentration may vary from 3.2.6.
EPA COMMENTS	
MANAGEMENT COMMENTS	The current plan is to assay, sort, size reduce and characterize the job control waste in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The liquids, sludges and resins will be vitrified, the HEPA filters affixed and the heterogeneous debris repackaged prior to shipment to WIPP. The possibility exists that treatment (vitrification) may be required for the heterogeneous debris containing Pu238 since it is currently not economical to ship PU238 in the TRUPACT.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W074	Handling:	CH	NMVP #:	Undetermined	Stream Name:	CH TRU - Vitrified debris from 772F	Inventory Date:	12/31/94
Local ID:	SR-T001	Type:	TRU	Generator Site:	SR	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S5000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	1719.0	1559.0	2375.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	467.0	261.0	516.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

undetermined

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.00E+01
Pu-240	2.06E-01
Pu-239	8.35E-01
Pu-238	5.01E+01
Others	1.68E-01
Cm-244	1.04E-01
Am-241	1.80E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / 12ft W x 18ft L x 7ft H	0.0	0.0	0.0	0.0	42.5	42.5
Box / 16in W x 29in L x 32in H	1.3	0.3	0.5	1.0	1.0	4.1
Drum / 55-gallon	2.8	1.4	2.6	5.0	4.4	16.1
Totals	4.0	1.6	3.1	6.0	47.9	62.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	7.6	7.8
Totals	0.2	0.0	0.0	0.0	7.6	7.8

As-Generated Form: Stored: 4.0 Projected: 58.6 Total: 62.6

Final Waste Form: Stored: 0.2 Projected: 7.6 Total: 7.8

WASTE STREAM DESCRIPTION	This waste stream is defense related, contact handled TRU waste and is composed of Job Control waste, sludges and resins, HEPA filters and large, metal equipment
WASTE STREAM SOURCE	This stream was generated in 772F, an analytical lab used to support H and F canyon processing, the Pu-238 mission, etc.
CURRENT CONTAINER COMMENTS	Radionuclide concentrations may vary from 3.2.6.
EPA COMMENTS	
MANAGEMENT COMMENTS	The current plan is to assay, sort, size reduce and characterize the job control waste in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The liquids, sludges and resins will be vitrified, the HEPA filters affixed and the heterogeneous debris repackaged prior to shipment to WIPP. The possibility exists that treatment (vitrification) may be required for the heterogeneous debris containing Pu238 since it is currently not economical to ship PU238 in the TRUPACT.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W074	Handling:	CH	NMVP #:	N/A	Stream Name:	CH TRU - Classified waste from 773A	Inventory Date:	12/31/94
Local ID:	SR-T001	Type:	TRU	Generator Site:	SR	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S5000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	2039.0	1344.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	146.0	0.0	364.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues:

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
Others	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / 162 ft3	23.0	0.0	0.0	0.0	0.0	23.0
Totals	23.0	0.0	0.0	0.0	0.0	23.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	4.6	0.0	0.0	0.0	0.0	4.6
Totals	4.6	0.0	0.0	0.0	0.0	4.6

As-Generated Form: Stored: 23.0 Projected: 0.0 Total: 23.0

Final Waste Form: Stored: 4.6 Projected: 0.0 Total: 4.6

WASTE STREAM DESCRIPTION	This waste stream is defense related, contact handled TRU waste and is composed of Job Control waste, sludges and resins, HEPA filters and large, metal equipment
WASTE STREAM SOURCE	This stream was generated in the SED facility with SRTC (Savannah River Technology Center). This facility is no longer operational - D&D will occur.
CURRENT CONTAINER COMMENTS	Classified waste
EPA COMMENTS	
MANAGEMENT COMMENTS	The current plan is to assay, sort, size reduce and characterize the job control waste in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The liquids, sludges and resins will be vitrified, the HEPA filters affixed and the heterogeneous debris repackaged prior to shipment to WIPP. The possibility exists that treatment (vitrification) may be required for the heterogeneous debris containing Pu238 since it is currently not economical to ship PU238 in the TRUPACT.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	This is classified waste which requires treatment to destroy the current configuration of the waste form.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W074	Handling:	CH	NMVP #:	SR125A	Stream Name:	CH TRU - Heterogeneous debris from 773A	Inventory Date:	12/31/94
Local ID:	SR-T001	Type:	TRU	Generator Site:	SR	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.1	0.0	4.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	115.8	0.0	576.9
Rubber:	11.1	0.0	47.8
Plastics:	33.3	0.0	84.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

SR125A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
Others	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / 12ft W x 18ft L x 7ft H	42.5	0.0	0.0	0.0	42.5	85.0
Cask / 27 in x 27 in x 42 in	4.0	0.5	1.5	2.5	2.5	11.0
Drum / 55-gallon	7.5	5.4	8.9	17.8	17.4	57.1
Totals	54.0	5.9	10.4	20.3	62.4	153.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	22.1	0.0	0.0	0.0	257.5	279.6
Totals	22.1	0.0	0.0	0.0	257.5	279.6

As-Generated Form: Stored: 54.0 Projected: 99.1 Total: 153.1

Final Waste Form: Stored: 22.1 Projected: 257.5 Total: 279.6

WASTE STREAM DESCRIPTION	This waste stream is defense related, contact handled TRU waste and is composed of Job Control waste, sludges and resins, HEPA filters and large, metal equipment
WASTE STREAM SOURCE	This stream was generated in 773A, the SRTC laboratories (Savannah River Technology Center).
CURRENT CONTAINER COMMENTS	Radionuclide concentration may vary from 3.2.6.
EPA COMMENTS	
MANAGEMENT COMMENTS	The current plan is to assay, sort, size reduce and characterize the job control waste in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The liquids, sludges and resins will be vitrified, the HEPA filters affixed and the heterogeneous debris repackaged prior to shipment to WIPP. The possibility exists that treatment (vitrification) may be required for the heterogeneous debris containing Pu238 since it is currently not economical to ship PU238 in the TRUPACT.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W074	Handling:	CH	NMVP #:	Undetermined	Stream Name:	CH TRU - Metal debris from 773A	Inventory Date:	12/31/94
Local ID:	SR-T001	Type:	TRU	Generator Site:	SR	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	83.7	0.0	317.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	195.2	0.0	1586.5
Other Inorganic Material:	19.3	0.0	19.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	154.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

undetermined

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
Others	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / 12ft W x 18ft L x 7ft H	42.5	0.0	0.0	85.0	42.5	170.0
Totals	42.5	0.0	0.0	85.0	42.5	170.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	0.4	0.0	0.0	0.0	31.8	32.1
Totals	0.4	0.0	0.0	0.0	31.8	32.1

As-Generated Form: Stored: 42.5 Projected: 127.5 Total: 170.0

Final Waste Form: Stored: 0.4 Projected: 31.8 Total: 32.1

WASTE STREAM DESCRIPTION	This waste stream is defense related, contact handled TRU waste and is composed of Job Control waste, sludges and resins, HEPA filters and large, metal equipment
WASTE STREAM SOURCE	This stream was generated in 773A, SRTC labs (Savannah River Technology Center).
CURRENT CONTAINER COMMENTS	Radionuclide concentration may vary from 3.2.6.
EPA COMMENTS	
MANAGEMENT COMMENTS	The current plan is to assay, sort, size reduce and characterize the job control waste in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The liquids, sludges and resins will be vitrified, the HEPA filters affixed and the heterogeneous debris repackaged prior to shipment to WIPP. The possibility exists that treatment (vitrification) may be required for the heterogeneous debris containing Pu238 since it is currently not economical to ship PU238 in the TRUPACT.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W074	Handling:	CH	NMVP #:	Undetermined	Stream Name:	CH TRU - Vitrified debris from 773A	Inventory Date:	12/31/94
Local ID:	SR-T001	Type:	TRU	Generator Site:	SR	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S5000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	1719.0	1559.0	2375.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	467.0	261.0	516.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

undetermined

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.00E+01
Pu-240	2.06E-01
Pu-239	8.35E-01
Pu-238	5.01E+01
Others	1.68E-01
Cm-244	1.04E-01
Am-241	1.80E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / 12ft W x 18ft L x 7ft H	0.0	0.0	0.0	42.5	42.5	85.0
Box / 16in W x 29in L x 32in H	5.1	1.0	2.0	4.3	4.6	17.1
Drum / 55-gallon	0.4	2.4	4.0	7.5	7.3	21.6
Totals	5.5	3.4	6.0	54.4	54.4	123.7

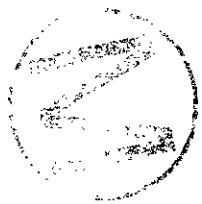
Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.4	0.0	0.0	0.0	15.1	15.5
Totals	0.4	0.0	0.0	0.0	15.1	15.5

As-Generated Form: Stored: 5.5 Projected: 118.2 Total: 123.7

Final Waste Form: Stored: 0.4 Projected: 15.1 Total: 15.5

WASTE STREAM DESCRIPTION	This waste stream is defense related, contact handled TRU waste and is composed of Job Control waste, sludges and resins, HEPA filters and large, metal equipment
WASTE STREAM SOURCE	This stream was generated in 773A, SRTC labs (Savannah River Technology Center).
CURRENT CONTAINER COMMENTS	Radionuclide concentration may vary from 3.2.6.
EPA COMMENTS	
MANAGEMENT COMMENTS	The current plan is to assay, sort, size reduce and characterize the job control waste in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The liquids, sludges and resins will be vitrified, the HEPA filters affixed and the heterogeneous debris repackaged prior to shipment to WIPP. The possibility exists that treatment (vitrification) may be required for the heterogeneous debris containing Pu238 since it is currently not economical to ship PU238 in the TRUPACT.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	This WTWBIR WS contains Remote Handled that has been processed and became Contact Handled.



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W076	Handling:	CH	NMVP #:	SR125A	Stream Name:	RH TRU Heterogeneous Debris from 773A
Local ID:	SR-T003	Type:	TRU	Generator Site:	SR	Final Waste Form:	Heterogeneous

Inventory Date: 12/31/94

Waste Matrix Code: S5000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	83.7	0.0	317.3
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.1	0.0	4.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	115.8	0.0	576.9
Rubber:	11.1	0.0	47.8
Plastics:	33.3	0.0	84.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

SR125A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Y-90	3.28E+00
Sr-90	3.10E+00
Pu-238	1.69E-01
Pm-147	8.13E-01
Cs-137	3.28E+00
Cm-247	2.43E+00
Ba-137m	3.10E+00

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / 27 in. x 27 in. x 42 in.	0.5	1.5	2.5	5.0	5.0	14.5
Totals	0.5	1.5	2.5	5.0	5.0	14.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.6	0.7	1.2	2.5	2.5	7.6
Totals	0.6	0.7	1.2	2.5	2.5	7.6

As-Generated Form:	Stored:	0.5	Projected:	14.0	Total:	14.5	Final Waste Form:	Stored:	0.6	Projected:	6.9	Total:	7.5

WASTE STREAM DESCRIPTION	This waste consists of miscellaneous job control waste such as laboratory supplies used in research programs in the sheilded cells, e.g. glassware, paper wipes, stainless steel samples vials, poly bottles, pipettes and small lab equipment (stirrers, heaters). In addition to the job control waste, this stream contains shavings from the cuttings of a Mark 16 fuel element. Presently, this waste stream is stored as RH, but is reported as CH because after processing this stream will be CH.
WASTE STREAM SOURCE	This stream was generated as a result of experiments and activities at SRTC in the 773-A Shielded Cells Facility (E-wing). Work was performed with samples of low activity waste from tanks 42 and 51, high activity waste from 11 and 15, salt from tank 41 and 13, process waste from tank 17, in addition to other isotopes stored in the cells,
CURRENT CONTAINER COMMENTS	This box is placed in a cask for storage.
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Preliminary plans are to vitrify that portion of the stream that must be treated due to meeting WIPP requirements (PE Ci, FGE and Wattage limits). The portion not needing treatment will be repackaged for shipment to WIPP.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W076	Handling:	CH	NMVP #:	Undetermined	Stream Name:	RH TRU Vitrified Debris from 773A	Inventory Date:	12/31/94
Local ID:	SR-T003	Type:	TRU	Generator Site:	SR	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S5000

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	1719.0	1559.0	2375.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	467.0	261.0	516.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

Undetermined

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.00E+01
Pu-240	2.06E-01
Pu-239	8.35E-01
Pu-238	5.01E+01
Cm-244	1.04E-01
Am-241	1.80E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / 27 in. x 27 in. x 42 in.	0.5	1.5	2.5	5.0	5.0	14.5
Totals	0.5	1.5	2.5	5.0	5.0	14.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.5 Projected: 14.0 Total: 14.5

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	This waste consists of miscellaneous job control waste such as laboratory supplies used in research programs in the shelided cells, e.g. glassware, paper wipes, stainless steel samples vials, poly bottles, pipettes and small lab equipment (stirrers, heaters). In addition to the job control waste, this stream contains shavings from the cuttings of a Mark 16 fuel element. Presently, this waste stream is stored as RH, but is reported as CH because after processing this stream will be CH.
WASTE STREAM SOURCE	This stream was generated as a result of experiments and activities at SRTC in the 773-A Shielded Cells Facility (E-wing). Work was performed with samples of low activity waste from tanks 42 and 51, high activity waste from 11 and 15, salt from tank 41 and 13, process waste from tank 17, in addition to other isotopes stored in the cells,
CURRENT CONTAINER COMMENTS	The box is placed in a cask for storage.
EPA COMMENTS	N/A
MANAGEMENT COMMENTS	Preliminary plans are to vitrify that portion of the stream that must be treated due to meeting WIPP requirements (PE Ci, FGE and Wattage limits). The portion not needing treatment will be repackaged for shipment to WIPP.
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	Once processed, the final form of this waste stream will become Contact Handled. All final form information for this waste stream is inclided in SR-T001 projections.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W006	Handling:	CH	NMVP #:	none at this time	Stream Name:	Contact handled TRU/Liquids from 773A			Inventory Date:	12/31/94
Local ID:	SR-W006	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Solidified Inorganics			Waste Matrix Code:	L2000

AS-GENERATED EPA CODES

D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	1719.0	1559.0	2375.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	467.0	261.0	516.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source: Analytical Laboratory Waste

TRUCON CODE

none at this time

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-239	8.60E+02
Am-241	4.51E-03

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Stainless Steel can / 1 gal	0.1	0.0	0.0	0.0	0.0	0.1
Totals	0.1	0.0	0.0	0.0	0.0	0.1

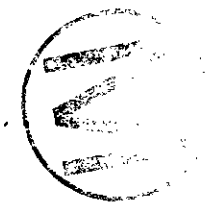
Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.5	0.0	0.0	0.0	0.0	0.5

As-Generated Form: Stored: 0.1 Projected: 0.0 Total: 0.1

Final Waste Form: Stored: 0.5 Projected: 0.0 Total: 0.5

WASTE STREAM DESCRIPTION	The stream is a xylene-based chelating agent. It is a homogeneous, flammable liquid containing hazardous constituents. Total activity is 100 nCi/g. The waste is contact handled. TTA stands for Thenoyl Trifluoroacetone.
WASTE STREAM SOURCE	This stream is generated from plutonium extraction analytical procedures at the Savannah River Technology Center. It consists of a homogenous, xylene based, liquid chelating agent.
CURRENT CONTAINER COMMENTS	"SAF-T-CAN" Brand, 1 gallon capacity
EPA COMMENTS	This waste is ignitable only - no contaminant concentration values are used, other than xylenes > 99%.
MANAGEMENT COMMENTS	The waste is stored in a stainless steel can, (Safe-T-Can brand for storage of flammable liquids), in a Satellite Accumulation Area (SAA), which is located in a laboratory hood in Lab B-138 of Building 773-A of SRTC. The preferred option in the PSTP is to assay and characterize the waste stream at the TRU Waste Certification/Characterization Facility (TWCCF), followed by preparation for shipment and disposal at WIPP. Because of the small volume of the stream alternative treatment options are being investigated. One alternative is to handle the waste as a 90 day generator, remove the TRU portion of the stream, and treat the ignitable characteristic.
ACCEPTANCE COMMENTS	GENOPERATI: Chemical Analysis and experimentation - laboratory conducts expériments on low- and high-level radioactive materials, in addition to non-radioactive testing. RECLASS_CO: NA. CATION: HNO3 = 10E-3 (Molar Based on solubility after contact with 1Molar HNO3) per lab procedure.
FINAL FORM COMMENTS	N/A



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W026	Handling:	CH	NMVP #:	SR125A	Stream Name:	CH Mixed TRU/Thirds Heterogeneous debris from 221F	Inventory Date:	12/31/94
Local ID:	SR-W026	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.1	0.0	4.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	115.8	0.0	576.9
Rubber:	11.1	0.0	47.6
Plastics:	33.3	0.0	84.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: Unknown

Source: Other/Multiple Sources

TRUCON CODE

SR125A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
Other	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	17.4	59.7	117.3	59.3	29.7	283.4
Totals	17.4	59.7	117.3	59.3	29.7	283.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	0.0	1403.0	1403.0
Totals	0.0	0.0	0.0	0.0	1403.0	1403.0

As-Generated Form: Stored: 17.4 Projected: 266.0 Total: 283.4

Final Waste Form: Stored: 0.0 Projected: 1403.0 Total: 1403.0

WASTE STREAM DESCRIPTION	200 Areas (F and H Separations Facilities). This waste is primarily solids consisting of mainly booties, lab coats, floor sweepings, rags, labware, and other job control wastes. Small Hepas, liquids, sludges and resins may also be found in this stream. The waste is generated primarily through separation activities in the course of plutonium production, includes small amounts of TRU waste from on site laboratories.
WASTE STREAM SOURCE	The stream was prodiced in 221F, a separation facility for Pu-239 production.
CURRENT CONTAINER COMMENTS	None
EPA COMMENTS	Process knowledge was used to characterize this waste stream , and therefore the confidence is medium.
MANAGEMENT COMMENTS	All the waste in this stream is currently stored on TRU Pads 7 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be placed in covered storage on pads 15-19. The current plan is to at least assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W033 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be combined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID: SR-W026	Handling: CH	NMVP #: undetermined	Stream Name: CH Mixed TRU/Thirds - Vitrified debris from 221F		Inventory Date: 12/31/94
Local ID: SR-W026	Type: MTRU	Generator Site: SR	Final Waste Form: Solidified Inorganics		Waste Matrix Code: S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	2039.0	1344.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	146.0	0.0	364.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	13		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Undetermined

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.00E+01
Pu-240	2.06E-01
Pu-239	8.35E-01
Pu-238	5.01E+01
Other	1.68E-01
Cm-244	1.04E-01
Am-241	1.80E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	3.6	25.6	50.3	25.2	12.9	117.5
Totals	3.6	25.6	50.3	25.2	12.9	117.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	0.0	65.7	65.7
Totals	0.0	0.0	0.0	0.0	65.7	65.7

As-Generated Form:	Stored:	3.6	Projected:	114.0	Total:	117.5	Final Waste Form:	Stored:	0.0	Projected:	65.7	Total:	65.7

WASTE STREAM DESCRIPTION	200 Areas (F and H Separations Facilities). This waste is primarily solids consisting of mainly booties, lab coats, floor sweepings, rags, labware, and other job control wastes. Small Hepas, liquids, sludges and resins may also be found in this stream. The waste is generated primarily through separation activities in the course of plutonium production, Includes small amounts of TRU waste from on site laboratories.
WASTE STREAM SOURCE	This stream was produced in 221F a seperations facility for Pu-239.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Process knowledge was used to characterize this waste stream , and therefore the confidence is medium.
MANAGEMENT COMMENTS	All the waste in this stream is currently stored on TRU Pads 7 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be placed in covered storage on pads 15-19. The current plan is to at least assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W033 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be combined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	Treatment of WS SR-W033 could concentrate the TRU fraction above 100 nCi/g requiring WIPP disposal. The final waste form containing >100 nCi/g is combined with SR-W026 final waste form volumes.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W026	Handling:	CH	NMVP #:	SR125A	Stream Name:	CH Mixed TRU/Thirds Heterogeneous debris from 221H	Inventory Date:	12/31/94
Local ID:	SR-W026	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.1	0.0	4.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	115.8	0.0	576.9
Rubber:	11.1	0.0	47.8
Plastics:	33.3	0.0	84.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: Unknown

Source: Other/Multiple Sources

TRUCON CODE

SR125A

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
Other	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	14.1	30.9	51.9	29.9	18.2	145.1
Totals	14.1	30.9	51.9	29.9	18.2	145.1

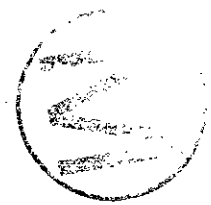
Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	0.0	691.4	691.4
Totals	0.0	0.0	0.0	0.0	691.4	691.4

As-Generated Form: Stored: 14.1 Projected: 131.0 Total: 145.1

Final Waste Form: Stored: 0.0 Projected: 691.4 Total: 691.4

WASTE STREAM DESCRIPTION	200 Areas (F and H Separations Facilities). This waste is primarily solids consisting of mainly booties, lab coats, floor sweepings, rags, labware, and other job control wastes. Small Hepas, liquids, sludges and resins may also be found in this stream. The waste is generated primarily through separation activities in the course of plutonium production, includes small amounts of TRU waste from on site laboratories.
WASTE STREAM SOURCE	This stream was produced in the 221H - Separation facilities for Pu-238.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Process knowledge was used to characterize this waste stream , and therefore the confidence is medium.
MANAGEMENT COMMENTS	All the waste in this stream is currently stored on TRU Pads 7 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be placed in covered storage on pads 15-19. The current plan is to at least assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W033 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be combined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	N/A



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W026	Handling:	CH	NMVP #:	Undetermined	Stream Name:	CH Mixed TRU/Thirds - Vitrified debris from 221H	Inventory Date:	12/31/94
Local ID:	SR-W026	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	2039.0	1344.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	146.0	0.0	364.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Undetermined

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.00E+01
Pu-240	2.06E-01
Pu-239	8.35E-01
Pu-238	5.01E+01
Other	1.68E-01
Cm-244	1.04E-01
Am-241	1.80E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	49.0	124.1	208.3	119.5	72.1	573.0
Totals	49.0	124.1	208.3	119.5	72.1	573.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	0.0	299.2	299.2
Totals	0.0	0.0	0.0	0.0	299.2	299.2

As-Generated Form:	Stored:	49.0	Projected:	524.0	Total:	573.0		
Final Waste Form:	Stored:	0.0	Projected:	299.2	Total:	299.2		

Appendix P

TWBIR ID: W026-221H-VIT

WASTE STREAM DESCRIPTION	200 Areas (F and H Separations Facilities). This waste is primarily solids consisting of mainly booties, lab coats, floor sweepings, rags, labware, and other job control wastes. Small Hepas, liquids, sludges and resins may also be found in this stream. The waste is generated primarily through separation activities in the course of plutonium production, includes small amounts of TRU waste from on site laboratories.
WASTE STREAM SOURCE	This stream was prodiced in 221H, separation facilities for Pu-238.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Process knowledge was used to characterize this waste stream , and therefore the confidence is medium.
MANAGEMENT COMMENTS	All the waste in this stream is currently stored on TRU Pads 7 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be placed in covered storage on pads 15-19. The current plan is to at least assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W033 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be combined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W026	Handling:	CH	NMVP #:	sr125A	Stream Name:	CH Mixed TRU/Thirds Heterogeneous debris from 235F			Inventory Date:	12/31/94
Local ID:	SR-W026	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Heterogeneous			Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.1	0.0	4.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	115.8	0.0	576.9
Rubber:	11.1	0.0	47.8
Plastics:	33.3	0.0	84.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: Unknown

Source: Other/Multiple Sources

TRUCON CODE

SR125A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
Other	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	2.8	3.4	4.0	10.5	9.7	30.3
Totals	2.8	3.4	4.0	10.5	9.7	30.3

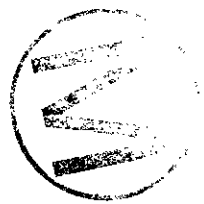
Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	0.0	144.8	144.8
Totals	0.0	0.0	0.0	0.0	144.8	144.8

As-Generated Form: Stored: 2.8 Projected: 27.5 Total: 30.3

Final Waste Form: Stored: 0.0 Projected: 144.8 Total: 144.8

WASTE STREAM DESCRIPTION	200 Areas (F and H Separations Facilities). This waste is primarily solids consisting of mainly booties, lab coats, floor sweepings, rags, labware, and other job control wastes. Small Hepas, liquids, sludges and resins may also be found in this stream. The waste is generated primarily through separation activities in the course of plutonium production, includes small amounts of TRU waste from on site laboratories.
WASTE STREAM SOURCE	This waste stream was produced in 235-F during separation activities for the production of Pu-238.
CURRENT CONTAINER COMMENTS	Radionuclide concentrations may vary from 3.2.6.
EPA COMMENTS	Process knowledge was used to characterize this waste stream , and therefore the confidence is medium.
MANAGEMENT COMMENTS	All the waste in this stream is currently stored on TRU Pads 7 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be placed in covered storage on pads 15-19. The current plan is to at least assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W033 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be combined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	N/A



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W026	Handling:	CH	NMVP #:	Undetermined	Stream Name:	CH Mixed TRU/Thirds - Vitrified debris from 235F	Inventory Date:	9/30/94
Local ID:	SR-W026	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	2039.0	1344.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	146.0	0.0	364.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: Unknown

Source: Other/Multiple Sources

TRUCON CODE

Undetermined

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.00E+01
Pu-240	2.06E-01
Pu-239	8.35E-01
Pu-238	5.01E+01
Other	1.68E-01
Cm-244	1.04E-01
Am-241	1.80E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	4.0	12.7	16.1	43.4	37.7	113.8
Totals	4.0	12.7	16.1	43.4	37.7	113.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	0.0	63.0	63.0
Totals	0.0	0.0	0.0	0.0	63.0	63.0

As-Generated Form: Stored: 4.0 Projected: 109.8 Total: 113.8

Final Waste Form: Stored: 0.0 Projected: 63.0 Total: 63.0

WASTE STREAM DESCRIPTION	200 Areas (F and H Separations Facilities). This waste is primarily solids consisting of mainly booties, lab coats, floor sweepings, rags, labware, and other job control wastes. Small Hepas, liquids, sludges and resins may also be found in this stream. The waste is generated primarily through separation activities in the course of plutonium production, includes small amounts of TRU waste from on site laboratories.
WASTE STREAM SOURCE	This waste stream was produced in 235F during separation activites for the production of Pu-238.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Process knowledge was used to characterize this waste stream , and therefore the confidence is medium.
MANAGEMENT COMMENTS	All the waste in this stream is currently stored on TRU Pads 7 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be placed in covered storage on pads 15-19. The current plan is to at least assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W033 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be combined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	Treatment of WS SR-W033 could concentrate the TRU fraction above 100 nCi/g requiring WIPP disposal. The final waste form contianing >100 nCi/g is combined with SR0W026 final waste form volumes.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W026	Handling:	CH	NMVP #:	SR125A	Stream Name:	CH Mixed TRU/Thirds Heterogeneous debris from 772F	Inventory Date:	12/31/94
Local ID:	SR-W026	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.1	0.0	4.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	115.8	0.0	576.9
Rubber:	11.1	0.0	47.8
Plastics:	33.3	0.0	84.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: Unknown

Source: Other/Multiple Sources

TRUCON CODE

SR125A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
Other	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	1.2	0.2	0.6	1.0	0.4	3.4
Totals	1.2	0.2	0.6	1.0	0.4	3.4

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	0.0	11.6	11.6
Totals	0.0	0.0	0.0	0.0	11.6	11.6

As-Generated Form: Stored: 1.2 Projected: 2.2 Total: 3.4

Final Waste Form: Stored: 0.0 Projected: 11.6 Total: 11.6

WASTE STREAM DESCRIPTION	200 Areas (F and H Separations Facilities). This waste is primarily solids consisting of mainly booties, lab coats, floor sweepings, rags, labware, and other job control wastes. Small Hepas, liquids, sludges and resins may also be found in this stream. The waste is generated primarily through separation activities in the course of plutonium production, includes small amounts of TRU waste from on site laboratories.
WASTE STREAM SOURCE	This waste stream was produced in 772F, an analytical lab used to support H and F canyon processing, the Pu-238 program etc.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Process knowledge was used to characterize this waste stream , and therefore the confidence is medium.
MANAGEMENT COMMENTS	All the waste in this stream is currently stored on TRU Pads 7 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be placed in covered storage on pads 15-19. The current plan is to at least assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W033 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be combined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W026	Handling:	CH	NMVP #:	Undetermined	Stream Name:	CH Mixed TRU/Thirds - Vitrified debris from 772F	Inventory Date:	12/31/94
Local ID:	SR-W026	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	2039.0	1344.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	146.0	0.0	364.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: Unknown

Source: Other/Multiple Sources

TRUCON CODE

undetermined

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.00E+01
Pu-240	2.06E-01
Pu-239	8.35E-01
Pu-238	5.01E+01
Other	1.68E-01
Cm-244	1.04E-01
Am-241	1.80E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.4	1.0	1.6	3.2	3.2	9.3
Totals	0.4	1.0	1.6	3.2	3.2	9.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	0.0	5.3	5.3
Totals	0.0	0.0	0.0	0.0	5.3	5.3

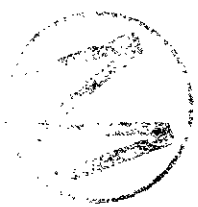
As-Generated Form: Stored: 0.4 Projected: 8.9 Total: 9.3

Final Waste Form: Stored: 0.0 Projected: 5.3 Total: 5.3

Appendix P

TWBIR ID: W026-772F-VIT

WASTE STREAM DESCRIPTION	200 Areas (F and H Separations Facilities). This waste is primarily solids consisting of mainly bootles, lab coats, floor sweepings, rags, labware, and other job control wastes. Small Hepas, liquids, sludges and resins may also be found in this stream. The waste is generated primarily through separation activities in the course of plutonium production, Includes small amounts of TRU waste from on site laboratories.
WASTE STREAM SOURCE	This waste stream was produced in 772F an analytical lab used to support H and F canyon processing, the Pu-238 program, etc.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Process knowledge was used to characterize this waste stream , and therefore the confidence is medium.
MANAGEMENT COMMENTS	All the waste in this stream is currently stored on TRU Pads 7 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be placed in covered storage on pads 15-19. The current plan is to at least assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W033 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be combined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	Treatment of WS SR-W033 could concentrate the TRU fraction above 100 nCi/g, requiring WIPP disposal. The final waste form containing >100 nCi/g TRU radionuclides is combined with SR-W026 final waste form volumes.



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W026	Handling:	CH	NMVP #:	SR125A	Stream Name:	CH Mixed TRU/Thirds Heterogeneous debris from 773A	Inventory Date:	12/31/94
Local ID:	SR-W026	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.1	0.0	4.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	115.8	0.0	576.9
Rubber:	11.1	0.0	47.8
Plastics:	33.3	0.0	84.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: Unknown

Source: Other/Multiple Sources

TRUCON CODE

SR125A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
Other	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.0	3.6	5.9	11.9	11.7	33.1
Totals	0.0	3.6	5.9	11.9	11.7	33.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	0.0	174.1	174.1
Totals	0.0	0.0	0.0	0.0	174.1	174.1

As-Generated Form: Stored: 0.0 Projected: 33.1 Total: 33.1

Final Waste Form: Stored: 0.0 Projected: 174.1 Total: 174.1

WASTE STREAM DESCRIPTION	200 Areas (F and H Separations Facilities). This waste is primarily solids consisting of mainly booties, lab coats, floor sweepings, rags, labware, and other job control wastes. Small Hepas, liquids, sludges and resins may also be found in this stream. The waste is generated primarily through separation activities in the course of plutonium production, includes small amounts of TRU waste from on site laboratories.
WASTE STREAM SOURCE	This stream was produced in 773A, the SRTC laboratories (Savannah River Technology Center).
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Process knowledge was used to characterize this waste stream , and therefore the confidence is medium.
MANAGEMENT COMMENTS	All the waste in this stream is currently stored on TRU Pads 7 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be placed in covered storage on pads 15-19. The current plan is to at least assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W033 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be combined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W026	Handling:	CH	NMVP #:	Undetermined	Stream Name:	CH Mixed TRU/Thirds - Vitrified debris from 773A	Inventory Date:	12/31/94
Local ID:	SR-W026	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	2039.0	1344.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	146.0	0.0	364.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: Unknown

Source: Other/Multiple Sources

TRUCON CODE

undetermined

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.00E+01
Pu-240	2.06E-01
Pu-239	8.35E-01
Pu-238	5.01E+01
Other	1.68E-01
Cm-244	1.04E-01
Am-241	1.80E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	0.0	1.4	2.6	5.0	5.2	14.1
Totals	0.0	1.4	2.6	5.0	5.2	14.1

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.0	0.0	0.0	0.0	8.6	8.6
Totals	0.0	0.0	0.0	0.0	8.6	8.6

As-Generated Form: Stored: 0.0 Projected: 14.1 Total: 14.1

Final Waste Form: Stored: 0.0 Projected: 8.6 Total: 8.6

WASTE STREAM DESCRIPTION	200 Areas (F and H Separations Facilities). This waste is primarily solids consisting of mainly booties, lab coats, floor sweepings, rags, labware, and other job control wastes. Small Hepas, liquids, sludges and resins may also be found in this stream. The waste is generated primarily through separation activities in the course of plutonium production, includes small amounts of TRU waste from on site laboratories.
WASTE STREAM SOURCE	This stream was produced in 773A, the SRTC laboratories (Savannah River Technology Center).
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	Process knowledge was used to characterize this waste stream , and therefore the confidence is medium.
MANAGEMENT COMMENTS	All the waste in this stream is currently stored on TRU Pads 7 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be placed in covered storage on pads 15-19. The current plan is to at least assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W033 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be combined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	Treatment of WS SR-W033 could concentrate the TRU fraction above 100 nCi/g, requiring WIPP disposal. The final waste form containing >100 nCi/g TRU radionuclides is combined with SR-W026 final waste form volumes.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W027	Handling:	CH	NMVP #:	SR125A	Stream Name:	CH Mixed TRU/F listed solvents - Heterogeneous debris from 221F	Inventory Date:	12/31/94
Local ID:	SR-W0027	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, F005, F003, F002, F001, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.1	0.0	4.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	115.8	0.0	576.9
Rubber:	11.1	0.0	47.8
Plastics:	33.3	0.0	84.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

SR125A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
OTHERS	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / Misc.	4.2	0.0	0.0	0.0	0.0	4.2
Drum / 55-gallon	265.8	0.0	0.0	0.0	0.0	265.8
Totals	270.0	0.0	0.0	0.0	0.0	270.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	265.6	0.0	0.0	0.0	0.0	265.6
Totals	265.6	0.0	0.0	0.0	0.0	265.6

As-Generated Form: Stored: 270.0 Projected: 0.0 Total: 270.0

Final Waste Form: Stored: 265.6 Projected: 0.0 Total: 265.6

WASTE STREAM DESCRIPTION	This waste stream is primarily solids consisting of booties, lab coats, floor sweeping, labware, rags, and other job control waste. This stream differs from SR-W026 because solvent rags are suspected to be in the waste.
WASTE STREAM SOURCE	This stream was produced in 221F, a separations facility for the production of Pu-239 .
CURRENT CONTAINER COMMENTS	Radionuclide concentration may vary from 3.2.6.
EPA COMMENTS	A conservative interpretation of the mixed waste rule resulted in this waste stream being listed as solvent waste because of the potential presence of solvent rags. Process knowledge is used to characterize this wastestream.
MANAGEMENT COMMENTS	The waste in this stream is currently stored on TRU Pads 2 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be moved to covered storage on pads 15-19. Waste on pads 2-6 are buried. Retrieval of this waste is scheduled to begin in FY 97 after which the drums will be vented, purged and then placed on pads 15-19. The current plan is to assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W025 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be ocmbined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Section 7.1: Breakdown of container #'s is estimated from total # in storage. Boxes and drums in culverts on Pads 7-17 are assumed to be TRU. For other pads and containers, 64% are estimated to be TRU. Waste on Pads 1-6 is assumed to be all solvent rags. Section 7.2: SRS TRU waste is found under TRUCON codes SR116A,B,C, SR122A,B,C and SR125A. GENERAAREA: 221 HB-Line, 221 FB-Line, 773-A, 772-F, 235-FGENOPERATI: Production of plutonium, uranium, neptunium, and laboratory support activities. RECLASS_CO: All waste identified by SR-W025, W026, W027, W033 will be assayed to determine TRU classification. Current classifications are based on process knowledge. CATION: NALDR_DETERM: Wastes placed in storage prior to LDR effective date (11/8/86). WASTE_PACK: Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W027	Handling:	CH	NMVP #:	Undetermined	Stream Name:	CH Mixed TRU/F listed solvents - Metal debris from 221F	Inventory Date:	12/31/94
Local ID:	SR-W0027	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, F005, F003, F002, F001, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	83.7	0.0	317.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	195.2	0.0	1586.5
Other Inorganic Material:	19.3	0.0	19.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	154.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

undetermined

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
OTHERS	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / Misc.	4.2	0.0	0.0	0.0	0.0	4.2
Totals	4.2	0.0	0.0	0.0	0.0	4.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9
Totals	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated Form: Stored: 4.2 Projected: 0.0 Total: 4.2

Final Waste Form: Stored: 1.9 Projected: 0.0 Total: 1.9

WASTE STREAM DESCRIPTION	This waste stream is primarily solids consisting of booties, lab coats, floor sweeping, labware, rags, and other job control waste. This stream differs from SR-W026 because solvent rags are suspected to be in the waste.
WASTE STREAM SOURCE	This stream was produced in 221F, a separations facility for the production of Pu-239 .
CURRENT CONTAINER COMMENTS	Radionuclide concentration may vary from 3.2.6.
EPA COMMENTS	A conservative interpretation of the mixed waste rule resulted in this waste stream being listed as solvent waste because of the potential presence of solvent rags. Process knowledge is used to characterize this wastestream.
MANAGEMENT COMMENTS	The waste in this stream is currently stored on TRU Pads 2 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be moved to covered storage on pads 15-19. Waste on pads 2-6 are buried. Retrieval of this waste is scheduled to begin in FY 97 after which the drums will be vented, purged and then placed on pads 15-19. The current plan is to assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W025 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be ocmbined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Section 7.1: Breakdown of container #'s is estimated from total # in storage. Boxes and drums in culverts on Pads 7-17 are assumed to be TRU. For other pads and containers, 64% are estimated to be TRU. Waste on Pads 1-6 is assumed to be all solvent rags. Section 7.2: SRS TRU waste is found under TRUCON codes SR116A,B,C, SR122A,B,C and SR125A. GENERAAREA: 221 HB-Line, 221 FB-Line, 773-A, 772-F, 235-FGENOPERATI: Production of plutonium, uranium, neptunium, and laboratory support activities. RECLASS_CO: All waste identified by SR-W025, W026, W027, W033 will be assayed to determine TRU classification. Current classifications are based on process knowledge. CATION: NALDR_DETERM: Wastes placed in storage prior to LDR effective date (11/8/86). WASTE_PACK: Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W027	Handling:	CH	NMVP #:	Undetermined	Stream Name:	CH Mixed TRU/F listed solvents - Vitrified debris from 221F	Inventory Date:	12/31/94
Local ID:	SR-W0027	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, F005, F003, F002, F001, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	2039.0	1344.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	146.0	0.0	364.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Undetermined

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Pu-241	1.00E+01
Pu-240	2.06E-01
Pu-239	8.35E-01
Pu-238	5.01E+01
OTHERS	1.68E-01
Cm-244	1.04E-01
Am-241	1.80E-01

WASTE VOLUME DETAIL (cu. meters)

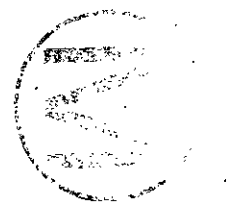
As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / Misc.	7.0	0.0	0.0	0.0	0.0	7.0
Drum / 55-gallon	289.8	0.0	0.0	0.0	0.0	289.8
Totals	296.8	0.0	0.0	0.0	0.0	296.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	33.2	0.0	0.0	0.0	0.0	33.2
Totals	33.2	0.0	0.0	0.0	0.0	33.2

As-Generated Form:	Stored:	296.8	Projected:	0.0	Total:	296.8	Final Waste Form:	Stored:	33.2	Projected:	0.0	Total:	33.2



WASTE STREAM DESCRIPTION	This waste stream is primarily solids consisting of booties, lab coats, floor sweeping, labware, rags, and other job control waste. This stream differs from SR-W026 because solvent rags are suspected to be in the waste.
WASTE STREAM SOURCE	This stream was produced in 221F, a separations facility for the production of Pu-239 .
CURRENT CONTAINER COMMENTS	Radionuclide concentration may vary from 3.2.6.
EPA COMMENTS	A conservative interpretation of the mixed waste rule resulted in this waste stream being listed as solvent waste because of the potential presence of solvent rags. Process knowledge is used to characterize this wastestream.
MANAGEMENT COMMENTS	The waste in this stream is currently stored on TRU Pads 2 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be moved to covered storage on pads 15-19. Waste on pads 2-6 are buried. Retrieval of this waste is scheduled to begin in FY 97 after which the drums will be vented, purged and then placed on pads 15-19. The current plan is to assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W025 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be combined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Section 7.1: Breakdown of container #'s is estimated from total # in storage. Boxes and drums in culverts on Pads 7-17 are assumed to be TRU. For other pads and containers, 64% are estimated to be TRU. Waste on Pads 1-6 is assumed to be all solvent rags. Section 7.2: SRS TRU waste is found under TRUCON codes SR116A,B,C, SR122A,B,C and SR125A. GENERAAREA: 221 HB-Line, 221 FB-Line, 773-A, 772-F, 235-FGENOPERATI: Production of plutonium, uranium, neptunium, and laboratory support activities. RECLASS_CO: All waste identified by SR-W025, W026, W027, W033 will be assayed to determine TRU classification. Current classifications are based on process knowledge. CATION: NALDR_DETERM: Wastes placed in storage prior to LDR effective date (11/8/86). WASTE_PACK: Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	Treatment of WS SR-W025 could concentrate the TRU fraction above 100 nCi/g requiring WIPP disposal. The final waste form containing >100 nCi/g TRU radionuclides is combined with SR-W027 final waste form volumes.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W027	Handling:	CH	NMVP #:	SR125A	Stream Name:	CH Mixed TRU/F listed solvents - Heterogeneous debris from 221H	Inventory Date:	12/31/94
Local ID:	SR-W0027	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, F005, F003, F002, F001, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

SR125A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
OTHERS	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / Misc.	6.8	0.0	0.0	0.0	0.0	6.8
Totals	6.8	0.0	0.0	0.0	0.0	6.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	125.4	0.0	0.0	0.0	0.0	125.4
Totals	125.4	0.0	0.0	0.0	0.0	125.4

As-Generated Form: Stored: 6.8 Projected: 0.0 Total: 6.8

Final Waste Form: Stored: 125.4 Projected: 0.0 Total: 125.4

WASTE STREAM DESCRIPTION	This waste stream is primarily solids consisting of booties, lab coats, floor sweeping, labware, rags, and other job control waste. This stream differs from SR-W026 because solvent rags are suspected to be in the waste.
WASTE STREAM SOURCE	This stream was produced in the 221H separation facilities for the production of Pu-238.
CURRENT CONTAINER COMMENTS	Radionuclide concentration may vary from 3.2.6.
EPA COMMENTS	A conservative interpretation of the mixed waste rule resulted in this waste stream being listed as solvent waste because of the potential presence of solvent rags. Process knowledge is used to characterize this wastestream.
MANAGEMENT COMMENTS	The waste in this stream is currently stored on TRU Pads 2 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be moved to covered storage on pads 15-19. Waste on pads 2-6 are buried. Retrieval of this waste is scheduled to begin in FY 97 after which the drums will be vented, purged and then placed on pads 15-19. The current plan is to assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W025 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be combined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Section 7.1: Breakdown of container #'s is estimated from total # in storage. Boxes and drums in culverts on Pads 7-17 are assumed to be TRU. For other pads and containers, 64% are estimated to be TRU. Waste on Pads 1-6 is assumed to be all solvent rags. Section 7.2: SRS TRU waste is found under TRUCON codes SR116A,B,C, SR122A,B,C and SR125A. GENERAAREA: 221 HB-Line, 221 FB-Line, 773-A, 772-F, 235-FGENOPERATI: Production of plutonium, uranium, neptunium, and laboratory support activities. RECLASS_CO: All waste identified by SR-W025, W026, W027, W033 will be assayed to determine TRU classification. Current classifications are based on process knowledge. CATION: NALDR_DETERM: Wastes placed in storage prior to LDR effective date (11/8/86). WASTE_PACK: Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W027	Handling:	CH	NMVP #:	Undetermined	Stream Name:	CH Mixed TRU/F listed solvents - Metal debris from 221H	Inventory Date:	12/31/94
Local ID:	SR-W0027	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, F005, F003, F002, F001, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	83.7	0.0	317.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	195.2	0.0	1586.5
Other Inorganic Material:	19.3	0.0	19.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	154.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

Undetermined

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
OTHERS	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / Misc.	6.8	0.0	0.0	0.0	0.0	6.8
Totals	6.8	0.0	0.0	0.0	0.0	6.8

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9
Totals	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated Form:	Stored:	6.8	Projected:	0.0	Total:	6.8	Final Waste Form:	Stored:	1.9	Projected:	0.0	Total:	1.9

WASTE STREAM DESCRIPTION	This waste stream is primarily solids consisting of bottles, lab coats, floor sweeping, labware, rags, and other job control waste. This stream differs from SR-W026 because solvent rags are suspected to be in the waste.
WASTE STREAM SOURCE	This stream was produced in the 221H separation facilities for the production of Pu-238.
CURRENT CONTAINER COMMENTS	Radionuclide concentration may vary from 3.2.6.
EPA COMMENTS	A conservative interpretation of the mixed waste rule resulted in this waste stream being listed as solvent waste because of the potential presence of solvent rags. Process knowledge is used to characterize this wastestream.
MANAGEMENT COMMENTS	The waste in this stream is currently stored on TRU Pads 2 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be moved to covered storage on pads 15-19. Waste on pads 2-6 are buried. Retrieval of this waste is scheduled to begin in FY 97 after which the drums will be vented, purged and then placed on pads 15-19. The current plan is to assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W025 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be ocmbined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Section 7.1: Breakdown of container #'s is estimated from total # in storage. Boxes and drums in culverts on Pads 7-17 are assumed to be TRU. For other pads and containers, 64% are estimated to be TRU. Waste on Pads 1-6 is assumed to be all solvent rags. Section 7.2: SRS TRU waste is found under TRUCON codes SR116A,B,C, SR122A,B,C and SR125A. GENERAAREA: 221 HB-Line, 221 FB-Line, 773-A, 772-F, 235-FGENOPERATI: Production of plutonium, uranium, neptunium, and laboratory support activities. RECLASS_CO: All waste identified by SR-W025, W026, W027, W033 will be assayed to determine TRU classification. Current classifications are based on process knowledge. CATION: NALDR_DETERM: Wastes placed in storage prior to LDR effective date (11/8/86). WASTE_PACK: Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W027	Handling:	CH	NMVP #:	Undetermined	Stream Name:	CH Mixed TRU/F listed solvents - Vitrified debris from 221H	Inventory Date:	12/31/94
Local ID:	SR-W0027	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, F005, F003, F002, F001, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	2039.0	1344.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	146.0	0.0	364.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

Undetermined

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.00E+01
Pu-240	2.06E-01
Pu-239	8.35E-01
Pu-238	5.01E+01
OTHERS	1.68E-01
Cm-244	1.04E-01
Am-241	1.80E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / 12ft W x 18ft L x 7ft H	977.5	0.0	0.0	0.0	0.0	977.5
Box / Misc.	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55-gallon	186.7	0.0	0.0	0.0	0.0	186.7
Totals	1164.2	0.0	0.0	0.0	0.0	1164.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	25.9	0.0	0.0	0.0	0.0	25.9
Totals	25.9	0.0	0.0	0.0	0.0	25.9

As-Generated Form: Stored: 1164.2 Projected: 0.0 Total: 1164.2

Final Waste Form: Stored: 25.9 Projected: 0.0 Total: 25.9

WASTE STREAM DESCRIPTION	This waste stream is primarily solids consisting of booties, lab coats, floor sweeping, labware, rags, and other job control waste. This stream differs from SR-W026 because solvent rags are suspected to be in the waste.
WASTE STREAM SOURCE	This stream was produced in the 221H separation facilities for the production of Pu-238.
CURRENT CONTAINER COMMENTS	Radionuclide concentration may vary from 3.2.6.
EPA COMMENTS	A conservative interpretation of the mixed waste rule resulted in this waste stream being listed as solvent waste because of the potential presence of solvent rags. Process knowledge is used to characterize this wastestream.
MANAGEMENT COMMENTS	The waste in this stream is currently stored on TRU Pads 2 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be moved to covered storage on pads 15-19. Waste on pads 2-6 are buried. Retrieval of this waste is scheduled to begin in FY 97 after which the drums will be vented, purged and then placed on pads 15-19. The current plan is to assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W025 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be ocmbined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Section 7.1: Breakdown of container #'s is estimated from total # in storage. Boxes and drums in culverts on Pads 7-17 are assumed to be TRU. For other pads and containers, 64% are estimated to be TRU. Waste on Pads 1-6 is assumed to be all solvent rags. Section 7.2: SRS TRU waste is found under TRUCON codes SR116A,B,C, SR122A,B,C and SR125A. GENERAAREA: 221 HB-Line, 221 FB-Line, 773-A, 772-F, 235-FGENOPERATI: Production of plutonium, uranium, neptunium, and laboratory support activities. RECLASS_CO: All waste identified by SR-W025, W026, W027, W033 will be assayed to determine TRU classification. Current classifications are based on process knowledge. CATON: NALDR_DETERM: Wastes placed in storage prior to LDR effective date (11/8/86). WASTE_PACK: Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	Treatment of WS SR-W025 could concentrate the TRU fraction above 100 nCi/g requiring WIPP disposal. The final form containing >100 nCi/g TRU radionuclides is combined with SR-W027 final waste form volumes.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W027	Handling:	CH	NMVP #:	SR125A	Stream Name:	CH Mixed TRU/F listed solvents - Heterogeneous debris from 235F	Inventory Date:	
Local ID:	SR-W0027	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, F005, F003, F002, F001, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.1	0.0	4.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	115.8	0.0	576.9
Rubber:	11.1	0.0	47.8
Plastics:	33.3	0.0	84.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

SR125A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
OTHERS	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	34.5	0.0	0.0	0.0	0.0	34.5
MSMC	0.0	0.0	0.0	0.0	0.0	0.0
Totals	34.5	0.0	0.0	0.0	0.0	34.5

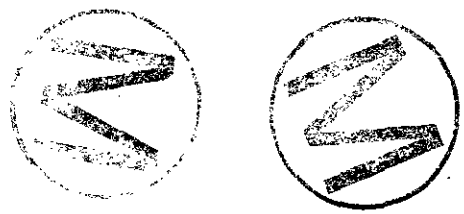
Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	34.7	0.0	0.0	0.0	0.0	34.7
Totals	34.7	0.0	0.0	0.0	0.0	34.7

As-Generated Form: Stored: 34.5 Projected: 0.0 Total: 34.5

Final Waste Form: Stored: 34.7 Projected: 0.0 Total: 34.7

WASTE STREAM DESCRIPTION	This waste stream is primarily solids consisting of booties, lab coats, floor sweeping, labware, rags, and other job control waste. This stream differs from SR-W026 because solvent rags are suspected to be in the waste.
WASTE STREAM SOURCE	This stream was produced in 235F due to separation activities during the production of Pu-238.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	A conservative interpretation of the mixed waste rule resulted in this waste stream being listed as solvent waste because of the potential presence of solvent rags. Process knowledge is used to characterize this wastestream.
MANAGEMENT COMMENTS	The waste in this stream is currently stored on TRU Pads 2 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be moved to covered storage on pads 15-19. Waste on pads 2-6 are buried. Retrieval of this waste is scheduled to begin in FY 97 after which the drums will be vented, purged and then placed on pads 15-19. The current plan is to assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W025 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be combined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Section 7.1: Breakdown of container #'s is estimated from total # in storage. Boxes and drums in culverts on Pads 7-17 are assumed to be TRU. For other pads and containers, 64% are estimated to be TRU. Waste on Pads 1-6 is assumed to be all solvent rags. Section 7.2: SRS TRU waste is found under TRUCON codes SR116A,B,C, SR122A,B,C and SR125A. GENERAAREA: 221 HB-Line, 221 FB-Line, 773-A, 772-F, 235-FGENOPERATI: Production of plutonium, uranium, neptunium, and laboratory support activities. RECLASS_CO: All waste identified by SR-W025, W026, W027, W033 will be assayed to determine TRU classification. Current classifications are based on process knowledge. CATION: NALDR_DETERM: Wastes placed in storage prior to LDR effective date (11/8/86). WASTE_PACK: Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	N/A



TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W027	Handling:	CH	NMVP #:	Undetermined	Stream Name:	CH Mixed TRU/F listed solvents - Metal debris from 235F	Inventory Date:	12/31/94
Local ID:	SR-W0027	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, F005, F003, F002, F001, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	83.7	0.0	317.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	195.2	0.0	1586.5
Other Inorganic Material:	19.3	0.0	19.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	154.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

Undetermined

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
OTHERS	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / MSMC	2.3	0.0	0.0	0.0	0.0	2.3
Totals	2.3	0.0	0.0	0.0	0.0	2.3

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	1.9	0.0	0.0	0.0	0.0	1.9
Totals	1.9	0.0	0.0	0.0	0.0	1.9

As-Generated Form: Stored: 2.3 Projected: 0.0 Total: 2.3

Final Waste Form: Stored: 1.9 Projected: 0.0 Total: 1.9

WASTE STREAM DESCRIPTION	This waste stream is primarily solids consisting of booties, lab coats, floor sweeping, labware, rags, and other job control waste. This stream differs from SR-W026 because solvent rags are suspected to be in the waste.
WASTE STREAM SOURCE	This stream was produced in 235F due to separation activities during the production of Pu-238.
CURRENT CONTAINER COMMENTS	Radionuclide concentration may vary from 3.2.6.
EPA COMMENTS	A conservative interpretation of the mixed waste rule resulted in this waste stream being listed as solvent waste because of the potential presence of solvent rags. Process knowledge is used to characterize this wastestream.
MANAGEMENT COMMENTS	The waste in this stream is currently stored on TRU Pads 2 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be moved to covered storage on pads 15-19. Waste on pads 2-6 are buried. Retrieval of this waste is scheduled to begin in FY 97 after which the drums will be vented, purged and then placed on pads 15-19. The current plan is to assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W025 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be ocmbined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Section 7.1: Breakdown of container #'s is estimated from total # in storage. Boxes and drums in culverts on Pads 7-17 are assumed to be TRU. For other pads and containers, 64% are estimated to be TRU. Waste on Pads 1-6 is assumed to be all solvent rags. Section 7.2: SRS TRU waste is found under TRUCON codes SR116A,B,C, SR122A,B,C and SR125A. GENERAAREA: 221 HB-Line, 221 FB-Line, 773-A, 772-F, 235-FGENOPERATI: Production of plutonium, uranium, neptunium, and laboratory support activities. RECLASS_CO: All waste identified by SR-W025, W026, W027, W033 will be assayed to determine TRU classification. Current classifications are based on process knowledge. CATION: NALDR_DETERM: Wastes placed in storage prior to LDR effective date (11/8/86). WASTE_PACK: Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 CI total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W027	Handling:	CH	NMVP #:	Undetermined	Stream Name:	CH Mixed TRU/F listed solvents - Vitrified debris from 235F	Inventory Date:	
Local ID:	SR-W0027	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, F005, F003, F002, F001, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	2039.0	1344.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	146.0	0.0	364.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

Undetermined

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.00E+01
Pu-240	2.06E-01
Pu-239	8.35E-01
Pu-238	5.01E+01
OTHERS	1.68E-01
Cm-244	1.04E-01
Am-241	1.80E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / Misc.	0.0	0.0	0.0	0.0	0.0	0.0
Drum / 55-gallon	137.0	0.0	0.0	0.0	0.0	137.0
MSMC	0.0	0.0	0.0	0.0	0.0	0.0
Totals	137.0	0.0	0.0	0.0	0.0	137.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	16.6	0.0	0.0	0.0	0.0	16.6
Totals	16.6	0.0	0.0	0.0	0.0	16.6

As-Generated Form: Stored: 137.0 Projected: 0.0 Total: 137.0

Final Waste Form: Stored: 16.6 Projected: 0.0 Total: 16.6

WASTE STREAM DESCRIPTION	This waste stream is primarily solids consisting of booties, 'sb coats, floor sweeping, labware, rags, and other job control waste. This stream differs from SR-W026 because solvent rags are suspected to be in the waste.
WASTE STREAM SOURCE	This stream was produced in 235F due to separation activities during the production of Pu-238.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	A conservative interpretation of the mixed waste rule resulted in this waste stream being listed as solvent waste because of the potential presence of solvent rags. Process knowledge is used to characterize this wastestream.
MANAGEMENT COMMENTS	The waste in this stream is currently stored on TRU Pads 2 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be moved to covered storage on pads 15-19. Waste on pads 2-6 are buried. Retrieval of this waste is scheduled to begin in FY 97 after which the drums will be vented, purged and then placed on pads 15-19. The current plan is to assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W025 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be ocmbined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Section 7.1: Breakdown of container #'s is estimated from total # in storage. Boxes and drums in culverts on Pads 7-17 are assumed to be TRU. For other pads and containers, 64% are estimated to be TRU. Waste on Pads 1-6 is assumed to be all solvent rags. Section 7.2: SRS TRU waste is found under TRUCON codes SR116A,B,C, SR122A,B,C and SR125A. GENERAAREA: 221 HB-Line, 221 FB-Line, 773-A, 772-F, 235-FGENOPERATI: Production of plutonium, uranium, neptunium, and laboratory support activities. RECLASS_CO: All waste identified by SR-W025, W026, W027, W033 will be assayed to determine TRU classification. Current classifications are based on process knowledge. CATION: NALDR_DETERM: Wastes placed in storage prior to LDR effective date (11/8/86). WASTE_PACK: Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	Treatment of WS SR-W025 could concentrate the TRU fraction above 100 nCi/g requiring WIPP disposal. The final form containing >100 nCi/g TRU radionuclides is combined with SR-W027 final waste form volumes.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W027	Handling:	CH	NMVP #:	SR125A	Stream Name:	CH Mixed TRU/F listed solvents - Heterogeneous debris from 772F			Inventory Date:	12/31/94
Local ID:	SR-W0027	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Heterogeneous			Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, F005, F003, F002, F001, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.1	0.0	4.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	115.8	0.0	576.9
Rubber:	11.1	0.0	47.8
Plastics:	33.3	0.0	84.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

SR125A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
OTHERS	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / Misc.	33.5	0.0	0.0	0.0	0.0	33.5
Drum / 55-gallon	510.2	0.0	0.0	0.0	0.0	510.2
Totals	543.6	0.0	0.0	0.0	0.0	543.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	515.4	0.0	0.0	0.0	0.0	515.4
Totals	515.4	0.0	0.0	0.0	0.0	515.4

As-Generated Form: Stored: 543.6 Projected: 0.0 Total: 543.6

Final Waste Form: Stored: 515.4 Projected: 0.0 Total: 515.4

WASTE STREAM DESCRIPTION	This waste stream is primarily solids consisting of booties, lab coats, floor sweeping, labware, rags, and other job control waste. This stream differs from SR-W026 because solvent rags are suspected to be in the waste.
WASTE STREAM SOURCE	This stream was produced in 772F, an analytical lab used to support F and H canyon processing, Pu-238 mission, etc.
CURRENT CONTAINER COMMENTS	Radionuclide concentration may vary from 3.2.6.
EPA COMMENTS	A conservative interpretation of the mixed waste rule resulted in this waste stream being listed as solvent waste because of the potential presence of solvent rags. Process knowledge is used to characterize this wastestream.
MANAGEMENT COMMENTS	The waste in this stream is currently stored on TRU Pads 2 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be moved to covered storage on pads 15-19. Waste on pads 2-6 are buried. Retrieval of this waste is scheduled to begin in FY 97 after which the drums will be vented, purged and then placed on pads 15-19. The current plan is to assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W025 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be ocmbined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Section 7.1: Breakdown of container #'s is estimated from total # in storage. Boxes and drums in culverts on Pads 7-17 are assumed to be TRU. For other pads and containers, 64% are estimated to be TRU. Waste on Pads 1-6 is assumed to be all solvent rags. Section 7.2: SRS TRU waste is found under TRUCON codes SR116A,B,C, SR122A,B,C and SR125A. GENERAAREA: 221 HB-Line, 221 FB-Line, 773-A, 772-F, 235-FGENOPERATI: Production of plutonium, uranium, neptunium, and laboratory support activities. RECLASS_CO: All waste identified by SR-W025, W026, W027, W033 will be assayed to determine TRU classification. Current classifications are based on process knowledge. CATION: NALDR_DETERM: Wastes placed in storage prior to LDR effective date (11/8/86). WASTE_PACK: Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W027	Handling:	CH	NMVP #:	Undetermined	Stream Name:	CH Mixed TRU/F listed solvents - Metal debris from 772F	Inventory Date:	12/31/94
Local ID:	SR-W0027	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Uncategorized Metal	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, F005, F003, F002, F001, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

Undetermined

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
OTHERS	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / Misc.	33.5	0.0	0.0	0.0	0.0	33.5
Totals	33.5	0.0	0.0	0.0	0.0	33.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	32.1	0.0	0.0	0.0	0.0	32.1
Totals	32.1	0.0	0.0	0.0	0.0	32.1

As-Generated Form: Stored: 33.5 Projected: 0.0 Total: 33.5

Final Waste Form: Stored: 32.1 Projected: 0.0 Total: 32.1

WASTE STREAM DESCRIPTION	This waste stream is primarily solids consisting of booties, lab coats, floor sweeping, labware, rags, and other job control waste. This stream differs from SR-W026 because solvent rags are suspected to be in the waste.
WASTE STREAM SOURCE	This stream was produced in 772F, an analytical lab used to support F and H canyon processing, Pu-238 mission, etc.
CURRENT CONTAINER COMMENTS	Radionuclide concentration may vary from 3.2.6.
EPA COMMENTS	A conservative interpretation of the mixed waste rule resulted in this waste stream being listed as solvent waste because of the potential presence of solvent rags. Process knowledge is used to characterize this wastestream.
MANAGEMENT COMMENTS	The waste in this stream is currently stored on TRU Pads 2 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be moved to covered storage on pads 15-19. Waste on pads 2-6 are buried. Retrieval of this waste is scheduled to begin in FY 97 after which the drums will be vented, purged and then placed on pads 15-19. The current plan is to assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W025 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be combined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Section 7.1: Breakdown of container #'s is estimated from total # in storage. Boxes and drums in culverts on Pads 7-17 are assumed to be TRU. For other pads and containers, 64% are estimated to be TRU. Waste on Pads 1-6 is assumed to be all solvent rags. Section 7.2: SRS TRU waste is found under TRUCON codes SR116A,B,C, SR122A,B,C and SR125A. GENERAAREA: 221 HB-Line, 221 FB-Line, 773-A, 772-F, 235-FGENOPERATI: Production of plutonium, uranium, neptunium, and laboratory support activities. RECLASS_CO: All waste identified by SR-W025, W026, W027, W033 will be assayed to determine TRU classification. Current classifications are based on process knowledge. CATION: NALDR_DETERM: Wastes placed in storage prior to LDR effective date (11/8/88). WASTE_PACK: Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 CI total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W027	Handling:	CH	NMVP #:	Undetermined	Stream Name:	CH Mixed TRU/F listed solvents - Vitrified debris from 772F	Inventory Date:	12/31/94
Local ID:	SR-W0027	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, F005, F003, F002, F001, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	2039.0	1344.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	146.0	0.0	364.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

undetermined

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.00E+01
Pu-240	2.06E-01
Pu-239	8.35E-01
Pu-238	5.01E+01
OTHERS	1.68E-01
Cm-244	1.04E-01
Am-241	1.80E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / Misc.	7.1	0.0	0.0	0.0	0.0	7.1
Drum / 55-gallon	88.6	0.0	0.0	0.0	0.0	88.6
Totals	95.7	0.0	0.0	0.0	0.0	95.7

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	10.6	0.0	0.0	0.0	0.0	10.6
Totals	10.6	0.0	0.0	0.0	0.0	10.6

As-Generated Form: Stored: 95.7 Projected: 0.0 Total: 95.7

Final Waste Form: Stored: 10.6 Projected: 0.0 Total: 10.6

WASTE STREAM DESCRIPTION	This waste stream is primarily solids consisting of booties, lab coats, floor sweeping, labware, rags, and other job control waste. This stream differs from SR-W026 because solvent rags are suspected to be in the waste.
WASTE STREAM SOURCE	This stream was produced in 772F, an analytical lab used to support F and H canyon processing, Pu-238 mission, etc.
CURRENT CONTAINER COMMENTS	Radionuclide concentration may vary from 3.2.6.
EPA COMMENTS	A conservative interpretation of the mixed waste rule resulted in this waste stream being listed as solvent waste because of the potential presence of solvent rags. Process knowledge is used to characterize this wastestream.
MANAGEMENT COMMENTS	The waste in this stream is currently stored on TRU Pads 2 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be moved to covered storage on pads 15-19. Waste on pads 2-6 are buried. Retrieval of this waste is scheduled to begin in FY 97 after which the drums will be vented, purged and then placed on pads 15-19. The current plan is to assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W025 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be combined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Section 7.1: Breakdown of container #'s is estimated from total # in storage. Boxes and drums in culverts on Pads 7-17 are assumed to be TRU. For other pads and containers, 64% are estimated to be TRU. Waste on Pads 1-6 is assumed to be all solvent rags. Section 7.2: SRS TRU waste is found under TRUCON codes SR116A,B,C, SR122A,B,C and SR125A. GENERAAREA: 221 HB-Line, 221 FB-Line, 773-A, 772-F, 235-FGENOPERATI: Production of plutonium, uranium, neptunium, and laboratory support activities. RECLASS_CO: All waste identified by SR-W025, W026, W027, W033 will be assayed to determine TRU classification. Current classifications are based on process knowledge. CATION: NALDR_DETERM: Wastes placed in storage prior to LDR effective date (11/8/86). WASTE_PACK: Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	Treatment of WS SR-W025 could concentrate the TRU fraction above 100 nCi/g requiring WIPP disposal. The final form containing >100 nCi/g TRU radionuclides is combined with SR-W027 final waste form volumes.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W027	Handling:	CH	NMVP #:	SR125A	Stream Name:	CH Mixed TRU/F listed solvents - Heterogeneous debris from 773A	Inventory Date:	12/31/94
Local ID:	SR-W0027	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, F005, F003, F002, F001, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.1	0.0	4.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	115.8	0.0	576.9
Rubber:	11.1	0.0	47.8
Plastics:	33.3	0.0	84.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

SR125A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
OTHERS	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / Misc.	41.0	0.0	0.0	0.0	0.0	41.0
Cask / 27 in x 27 in x 42 in	67.0	0.0	0.0	0.0	0.0	67.0
Drum / 55-gallon	134.0	0.0	0.0	0.0	0.0	134.0
Totals	242.0	0.0	0.0	0.0	0.0	242.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	331.1	0.0	0.0	0.0	0.0	331.1
Totals	331.1	0.0	0.0	0.0	0.0	331.1

As-Generated Form: Stored: 242.0 Projected: 0.0 Total: 242.0

Final Waste Form: Stored: 331.1 Projected: 0.0 Total: 331.1

WASTE STREAM DESCRIPTION	This waste stream is primarily solids consisting of bootles, lab coats, floor sweeping, labware, rags, and other job control waste. This stream differs from SR-W026 because solvent rags are suspected to be in the waste.
WASTE STREAM SOURCE	This stream was generated in 773A, the SRTC laboratories (Savannah River Technology Center).
CURRENT CONTAINER COMMENTS	Radionuclide concentration may vary from 3.2.6.
EPA COMMENTS	A conservative interpretation of the mixed waste rule resulted in this waste stream being listed as solvent waste because of the potential presence of solvent rags. Process knowledge is used to characterize this wastestream.
MANAGEMENT COMMENTS	The waste in this stream is currently stored on TRU Pads 2 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be moved to covered storage on pads 15-19. Waste on pads 2-6 are buried. Retrieval of this waste is scheduled to begin in FY 97 after which the drums will be vented, purged and then placed on pads 15-19. The current plan is to assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W025 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be ocmbined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Section 7.1: Breakdown of container #'s is estimated from total # in storage. Boxes and drums in culverts on Pads 7-17 are assumed to be TRU. For other pads and containers, 64% are estimated to be TRU. Waste on Pads 1-6 is assumed to be all solvent rags. Section 7.2: SRS TRU waste is found under TRUCON codes SR116A,B,C, SR122A,B,C and SR125A. GENERAAREA: 221 HB-Line, 221 FB-Line, 773-A, 772-F, 235-FGENOPERATI: Production of plutonium, uranium, neptunium, and laboratory support activities. RECLASS_CO: All waste identified by SR-W025, W026, W027, W033 will be assayed to determine TRU classification. Current classifications are based on process knowledge. CATION: NALDR_DETERM: Wastes placed in storage prior to LDR effective date (11/8/86). WASTE_PACK: Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W027	Handling:	CH	NMVP #:	Undetermined	Stream Name:	CH Mixed TRU/F listed solvents - Metal debris from 773A			Inventory Date:	12/31/94
Local ID:	SR-W0027	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Uncategorized Metal			Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, F005, F003, F002, F001, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	83.7	0.0	317.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	195.2	0.0	1586.5
Other Inorganic Material:	19.3	0.0	19.3
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	154.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
OTHERS	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

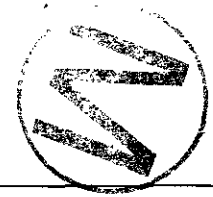
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / Misc.	41.0	0.0	0.0	0.0	0.0	41.0
Totals	41.0	0.0	0.0	0.0	0.0	41.0

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Standard Waste Box	7.6	0.0	0.0	0.0	0.0	7.6
Totals	7.6	0.0	0.0	0.0	0.0	7.6

As-Generated Form: Stored: 41.0 Projected: 0.0 Total: 41.0

Final Waste Form: Stored: 7.6 Projected: 0.0 Total: 7.6



WASTE STREAM DESCRIPTION	This waste stream is primarily solids consisting of booties, lab coats, floor sweeping, labware, rags, and other job control waste. This stream differs from SR-W026 because solvent rags are suspected to be in the waste.
WASTE STREAM SOURCE	This stream was generated in 773A, the SRTC analytical laboratories (Savannah River Technology Center).
CURRENT CONTAINER COMMENTS	Radionuclide concentration may vary from 3.2.6.
EPA COMMENTS	A conservative interpretation of the mixed waste rule resulted in this waste stream being listed as solvent waste because of the potential presence of solvent rags. Process knowledge is used to characterize this wastestream.
MANAGEMENT COMMENTS	The waste in this stream is currently stored on TRU Pads 2 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be moved to covered storage on pads 15-19. Waste on pads 2-6 are buried. Retrieval of this waste is scheduled to begin in FY 97 after which the drums will be vented, purged and then placed on pads 15-19. The current plan is to assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W025 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be ocmbined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Section 7.1: Breakdown of container #'s is estimated from total # in storage. Boxes and drums in culverts on Pads 7-17 are assumed to be TRU. For other pads and containers, 64% are estimated to be TRU. Waste on Pads 1-6 is assumed to be all solvent rags. Section 7.2: SRS TRU waste is found under TRUCON codes SR116A,B,C, SR122A,B,C and SR125A. GENERAAREA: 221 HB-Line, 221 FB-Line, 773-A, 772-F, 235-FGENOPERATI: Production of plutonium, uranium, neptunium, and laboratory support activities. RECLASS_CO: All waste identified by SR-W025, W026, W027, W033 will be assayed to determine TRU classification. Current classifications are based on process knowledge. CATION: NALDR_DETERM: Wastes placed in storage prior to LDR effective date (11/8/86). WASTE_PACK: Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W027	Handling:	CH	NMVP #:	Undetermined	Stream Name:	CH Mixed TRU/F listed solvents - Vitrified debris from 773A	Inventory Date:	12/31/94
Local ID:	SR-W0027	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, F005, F003, F002, F001, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	2039.0	1344.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	146.0	0.0	364.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

Undetermined

FINAL FORM RADIONUCLIDES

Isotope	(Ci/m3)
Pu-241	1.00E+01
Pu-240	2.06E-01
Pu-239	8.35E-01
Pu-238	5.01E+01
OTHERS	1.68E-01
Cm-244	1.04E-01
Am-241	1.80E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / Misc.	8.2	0.0	0.0	0.0	0.0	8.2
Cask / 27 In x 27 In x 42 In	32.0	0.0	0.0	0.0	0.0	32.0
Drum / 55-gallon	49.4	0.0	0.0	0.0	0.0	49.4
Totals	89.6	0.0	0.0	0.0	0.0	89.6

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	17.3	0.0	0.0	0.0	0.0	17.3
Totals	17.3	0.0	0.0	0.0	0.0	17.3

As-Generated Form: Stored: 89.6 Projected: 0.0 Total: 89.6

Final Waste Form: Stored: 17.3 Projected: 0.0 Total: 17.3

WASTE STREAM DESCRIPTION	This waste stream is primarily solids consisting of booties, lab coats, floor sweeping, labware, rags, and other job control waste. This stream differs from SR-W026 because solvent rags are suspected to be in the waste.
WASTE STREAM SOURCE	This stream was generated in 773A, the SRTC analytical laboratories (Savannah River Technology Center).
CURRENT CONTAINER COMMENTS	Radionuclide concentration may vary from 3.2.6.
EPA COMMENTS	A conservative interpretation of the mixed waste rule resulted in this waste stream being listed as solvent waste because of the potential presence of solvent rags. Process knowledge is used to characterize this wastestream.
MANAGEMENT COMMENTS	The waste in this stream is currently stored on TRU Pads 2 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be moved to covered storage on pads 15-19. Waste on pads 2-6 are buried. Retrieval of this waste is scheduled to begin in FY 97 after which the drums will be vented, purged and then placed on pads 15-19. The current plan is to assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W025 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be ocmbined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Section 7.1: Breakdown of container #'s is estimated from total # in storage. Boxes and drums in culverts on Pads 7-17 are assumed to be TRU. For other pads and containers, 64% are estimated to be TRU. Waste on Pads 1-6 is assumed to be all solvent rags. Section 7.2: SRS TRU waste is found under TRUCON codes SR116A,B,C, SR122A,B,C and SR125A. GENERAAREA: 221 HB-Line, 221 FB-Line, 773-A, 772-F, 235-FGENOPERATI: Production of plutonium, uranium, neptunium, and laboratory support activities. RECLASS_CO: All waste identified by SR-W025, W026, W027, W033 will be assayed to determine TRU classification. Current classifications are based on process knowledge. CATION: NALDR_DETERM: Wastes placed in storage prior to LDR effective date (11/8/86). WASTE_PACK: Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	Treatment of WS SR-W025 could concentrate the TRU fraction above 100 nCi/g requiring WIPP disposal. The final form containing >100 nCi/g TRU radionuclides is combined with SR-W027 final waste form volumes.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W027	Handling:	CH	NMVP #:	SR125A	Stream Name:	CH Mixed TRU/F listed solvents - Heterogeneous debris from offsite	Inventory Date:	12/31/94
Local ID:	SR-W0027	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Heterogeneous	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, F005, F003, F002, F001, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	1.1	0.0	4.2
Vitrified:	0.0	0.0	0.0
Cellulosics:	115.8	0.0	576.9
Rubber:	11.1	0.0	47.8
Plastics:	33.3	0.0	84.4
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: Unknown

PCBs: No

Source: Other/Multiple Sources

TRUCON CODE

SR125A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.54E+01
Pu-240	3.17E-01
Pu-239	1.28E+01
Pu-238	7.71E+01
OTHERS	1.68E-01
Am-241	2.77E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

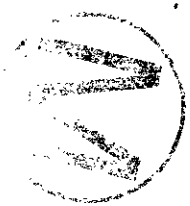
Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Drum / 55-gallon	27.9	0.0	0.0	0.0	0.0	27.9
Totals	27.9	0.0	0.0	0.0	0.0	27.9

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	27.7	0.0	0.0	0.0	0.0	27.7
Totals	27.7	0.0	0.0	0.0	0.0	27.7

As-Generated Form: Stored: 27.9 Projected: 0.0 Total: 27.9

Final Waste Form: Stored: 27.7 Projected: 0.0 Total: 27.7



WASTE STREAM DESCRIPTION	This waste stream is primarily solids consisting of booties, lab coats, floor sweeping, labware, rags, and other job control waste. This stream differs from SR-W026 because solvent rags are suspected to be in the waste.
WASTE STREAM SOURCE	This waste was generated and shipped to SRS from the Mound facility and Los Alamos Scientific Laboratory.
CURRENT CONTAINER COMMENTS	Radionuclide concentration may vary from 3.2.6.
EPA COMMENTS	A conservative interpretation of the mixed waste rule resulted in this waste stream being listed as solvent waste because of the potential presence of solvent rags. Process knowledge is used to characterize this wastestream.
MANAGEMENT COMMENTS	The waste in this stream is currently stored on TRU Pads 2 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be moved to covered storage on pads 15-19. Waste on pads 2-6 are buried. Retrieval of this waste is scheduled to begin in FY 97 after which the drums will be vented, purged and then placed on pads 15-19. The current plan is to assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W025 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be ocmbined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Section 7.1: Breakdown of container #'s is estimated from total # in storage. Boxes and drums in culverts on Pads 7-17 are assumed to be TRU. For other pads and containers, 64% are estimated to be TRU. Waste on Pads 1-6 is assumed to be all solvent rags. Section 7.2: SRS TRU waste is found under TRUCON codes SR116A,B,C, SR122A,B,C and SR125A. GENERAAREA: 221 HB-Line, 221 FB-Line, 773-A, 772-F, 235-FGENOPERATI: Production of plutonium, uranium, neptunium, and laboratory support activities. GECLASS_CO: All waste identified by SR-W025, W026, W027, W033 will be assayed to determine TRU classification. Current classifications are based on process knowledge. CATION: NADR_DETERM: Wastes placed in storage prior to LDR effective date (11/8/88). WASTE_PACK: Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W027	Handling:	CH	NMVP #:	Undetermined	Stream Name:	CH Mixed TRU/F listed solvents - Vitrified debris from offsite	Inventory Date:	12/31/94
Local ID:	SR-W0027	Type:	MTRU	Generator Site:	SR	Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S5400

AS-GENERATED EPA CODES

U239, U226, U220, U211, U209, U161, U154, U151, U144, U134, U133, U080, U052, U032, U002, P120, P113, P048, P015, P012, F005, F003, F002, F001, D026, D025, D024, D023, D022, D019, D018, D011, D009, D008, D007, D006, D004, D003, D001

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	2039.0	1344.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	146.0	0.0	364.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

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

TRUCON CODE

undetermined

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-241	1.00E+01
Pu-240	2.06E-01
Pu-239	8.35E-01
Pu-238	5.01E+01
OTHERS	1.68E-01
Cm-244	1.04E-01
Am-241	1.80E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
Box / Misc.	26.8	0.0	0.0	0.0	0.0	26.8
Drum / 55-gallon	20.4	0.0	0.0	0.0	0.0	20.4
Totals	47.2	0.0	0.0	0.0	0.0	47.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	31.8	0.0	0.0	0.0	0.0	31.8
Totals	31.8	0.0	0.0	0.0	0.0	31.8

As-Generated Form: Stored: 47.2 Projected: 0.0 Total: 47.2

Final Waste Form: Stored: 31.8 Projected: 0.0 Total: 31.8

WASTE STREAM DESCRIPTION	This waste stream is primarily solids consisting of booties, lab coats, floor sweeping, labware, rags, and other job control waste. This stream differs from SR-W026 because solvent rags are suspected to be in the waste.
WASTE STREAM SOURCE	This waste was generated and shipped to SRS from the Mound facility and Los Alamos Scientific Laboratory.
CURRENT CONTAINER COMMENTS	Radionuclide concentration may vary from 3.2.6.
EPA COMMENTS	A conservative interpretation of the mixed waste rule resulted in this waste stream being listed as solvent waste because of the potential presence of solvent rags. Process knowledge is used to characterize this wastestream.
MANAGEMENT COMMENTS	The waste in this stream is currently stored on TRU Pads 2 through 17. Pads 15-17 are enclosed and plans are to enclose pads 18 and 19 in the near future. As part of a mixed waste management plan, SRS is reorganizing the containers so that all mixed waste on pads 7-14 will be moved to covered storage on pads 15-19. Waste on pads 2-6 are buried. Retrieval of this waste is scheduled to begin in FY 97 after which the drums will be vented, purged and then placed on pads 15-19. The current plan is to assay, sort, size reduce and characterize the waste stream in the TRU Waste Certification/Characterization Facility (TWCCP), followed by preparation shipment to, disposal at, WIPP. The possibility exists that treatment may be required before shipment to WIPP since it is currently not economical to ship PU238 in the TRUPACT. Treatment of WS SR-W025 could concentrate the TRU fraction above 100nCi/g requiring WIPP disposal. The final waste forms containing >100nCi/g TRU radionuclides will be ocmbined with SR-W026 final waste volumes.
ACCEPTANCE COMMENTS	Section 7.1: Breakdown of container #'s is estimated from total # in storage. Boxes and drums in culverts on Pads 7-17 are assumed to be TRU. For other pads and containers, 64% are estimated to be TRU. Waste on Pads 1-6 is assumed to be all solvent rags. Section 7.2: SRS TRU waste is found under TRUCON codes SR116A,B,C, SR122A,B,C and SR125A. GENERAAREA: 221 HB-Line, 221 FB-Line, 773-A, 772-F, 235-FGENOPERATI: Production of plutonium, uranium, neptunium, and laboratory support activities. RECLASS_CO: All waste identified by SR-W025, W026, W027, W033 will be assayed to determine TRU classification. Current classifications are based on process knowledge. CATION: NALDR_DETERM: Wastes placed in storage prior to LDR effective date (11/8/86). WASTE_PACK: Waste is double-bagged and placed in a 90-mil polyethylene drum liner inside a 55-gallon carbon steel drum. The liner lid is glued in place. Drums with greater than 0.5 Ci total activity are placed inside concrete culverts for additional shielding. In addition, large carbon steel boxes are used to store waste equipment from the Canyon processes and other large, bulky wastes.
FINAL FORM COMMENTS	N/A

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	SR-W053	Handling:	CH	NMVP #:	none at this time	Stream Name:	Contact handled mixed TRU/Residues from 773A	Inventory Date:	12/31/94
Local ID:	SR-W053	Type:	MTRU	Generator Site:		Final Waste Form:	Solidified Inorganics	Waste Matrix Code:	S3111

AS-GENERATED EPA CODES

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

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	273.0	87.0	944.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	2415.0	2205.0	2473.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	0.0	0.0	0.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	0.0		
Packaging Material Plastic:	0.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: Yes

Asbestos: No

PCBs: No

Source: R&D/R&D Laboratory Waste

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-239	6.40E+02

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
small carton in 30 gal containers	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.5	0.0	0.0	0.0	0.0	0.5

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.5	0.0	0.0	0.0	0.0	0.5
Totals	0.5	0.0	0.0	0.0	0.0	0.5

As-Generated Form: Stored: 0.5 Projected: 0.0 Total: 0.5

Final Waste Form: Stored: 0.5 Projected: 0.0 Total: 0.5

WASTE STREAM DESCRIPTION	This waste stream consists of Rocky Flats Incinerator Ash and F-listed solvents, and is contaminated with TRU nuclides from SRS laboratories. This waste is classified as contact-handled.
WASTE STREAM SOURCE	This ash was sent to SRS from Rocky Flats for research into plutonium recovery. The ash was classified as hazardous by the Colorado Court System based on chemical analysis of F-listed solvent wste processed in the Rocky Flats Incinerator. SRS subsequently cancelled the research. The ash was declared mixed after SRS handled the waste as a Special Nuclear Material (SNM) in a SRTC vault.
CURRENT CONTAINER COMMENTS	paper cartons are placed in 30 gallon shipping containers
EPA COMMENTS	The confidence level is low because process knowledge was used for characterization, no analytical data is available.
MANAGEMENT COMMENTS	The preferred treatment option is to return the ash to Rocky Flats for consolidation and treatment with similar wastes. Treatment (if any) would then be at the discretion of Rocky Flats. Until a full agreement between SRS and RF has been reached, preliminary plans indicate SRS would add this small stream to a larger stream for vitrification. The waste itself is in four small cartons which are placed in 30 gallon shipping containers at a ratio of two small cartons per shipping container.
ACCEPTANCE COMMENTS	One-time generation. Went in storage prior to the effective date of May 8, 1992.
FINAL FORM COMMENTS	This stream is currently stored in a total of 4 cartons which are placed in 30 gallon shipping containers (not TRAMPAC approved). 2 cartons per shipping container. The containers are stored in 235-F.

TELEDYNE-BROWN ENGINEERING

Location and Description

Teledyne-Brown Engineering (TB) in Westwood, New Jersey, provided long-term contract services to DOE for the decontamination and recovery of DOE-owned precious metals. This effort under the DOE Precious Metal Program has since been transferred to Martin Marietta Energy Systems at the Oak Ridge Reservation.

Mission

Since 1986, the TB facility (formerly referred to as Teledyne Isotopes) has been in possession of nine grams of plutonium waste which were transferred from the Rocky Flats Plant with other precious metal-containing materials. Teledyne Isotopes was under contract with Westinghouse Materials Company of Ohio to decontaminate and recover DOE precious metals (e.g., platinum, gold, and rhodium) and return this metal to various DOE pool accounts. Normally the waste from the recovery process was disposed of at commercial sites, but this quantity exceeded disposal site limits. The waste must be shipped to a DOE site.

Waste Information

Processes

The by-product of the recovery process is a single drum of vitrified glass containing nine grams of plutonium. The material consists of approximately 150 pounds of vitrified lead-borosilicate glass chucks which are double-bagged, with each bag containing about 25 pounds. The drum is believed to contain no hazardous constituents other than Pu-239. The waste is stored in a 55-gallon stainless steel drum obtained from Oak Ridge National Laboratory. TB has a NuPAC N-55 overpack container which they plan to use in moving the waste to a DOE site.

TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	TB-W001	Handling:	CH	NMVP #:	N/A	Stream Name:	Teledyne Brown Vitrified Borosilicate Glass	Inventory Date:	12/31/94
Local ID:		Type:	TRU	Generator Site:		Final Waste Form:	Inorganic Non-Metal	Waste Matrix Code:	Z1120

AS-GENERATED EPA CODES

N/A

WASTE MATERIAL PARAMETERS (kg/m3)

	Avg	Min	Max
Iron-base Metal/Alloys:	0.0	0.0	0.0
Aluminum-base Metal/Alloys:	0.0	0.0	0.0
Other Metals/Alloys:	0.0	0.0	0.0
Other Inorganic Material:	0.0	0.0	0.0
Vitrified:	0.0	0.0	0.0
Cellulosics:	0.0	0.0	0.0
Rubber:	0.0	0.0	0.0
Plastics:	0.0	0.0	0.0
Solidified Inorganic Material:	327.0	327.0	327.0
Solidified Organic Material:	0.0	0.0	0.0
Cement (solidified):	0.0	0.0	0.0
Soils:	0.0	0.0	0.0
Packaging Material Steel:	131.0		
Packaging Material Plastic:	37.0		
Packaging Material Lead:	0.0		
Packaging Material Steel Plug:	0.0		

FINAL WASTE FORM DESCRIPTORS

Category: Defense TRU Waste

Residues: No

Asbestos: No

PCBs: No

Source:

TRUCON CODE

N/A

FINAL FORM RADIONUCLIDES

Isotope	Ci/m3
Pu-239	5.50E-01

WASTE VOLUME DETAIL (cu. meters)

As-Generated Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

Final Waste Form Volumes

Container	Stored	Pre-97	98-02	03-12	13-22	Totals
55 Gallon Drum	0.2	0.0	0.0	0.0	0.0	0.2
Totals	0.2	0.0	0.0	0.0	0.0	0.2

As-Generated Form: Stored: 0.2 Projected: 0.0 Total: 0.2

Final Waste Form: Stored: 0.2 Projected: 0.0 Total: 0.2

WASTE STREAM DESCRIPTION	A 55-gallon stainless steel drum containing 9 grams of DOE-owned plutonium waste in the form of 150 lbs. of lead - borosilicate glass.
WASTE STREAM SOURCE	By-product of a precious metals recovery process. Materials with 9 grams of Pu were transferred from the Rocky Flats Plant to Teledyne Isotopes in 1986 for processing. 150 pounds of Borosilicate glass.
CURRENT CONTAINER COMMENTS	N/A
EPA COMMENTS	
MANAGEMENT COMMENTS	N/A
ACCEPTANCE COMMENTS	N/A
FINAL FORM COMMENTS	N/A