



Table C-1
Mixed Waste Characterization Information*
(Group I)

Waste Category	Content Codes	Applicable IDCS	Applicable EPA Codes	Process Generating Waste	Waste Description ^b	Hazardous Chemicals ^c	Max Total Conc. ^d
Graphite Waste	RF 115A RF 115B ID 115A ID 115C	300 303 312	—	Graphite from plutonium casting and waste from lab operations at Rocky Flats Plant (Bldgs. 371, 374, 559, 707, 771, and 776, at RFP).	Broken graphite molds and graphite furnace equipment or graphite chunks and pieces from mold cleaning and declassification. Also discarded lab equipment.	—	—
Graphite Waste	ID 216A ID 115B	300		Graphite wastes from foundry operations, plutonium recovery operations, and size reduction facilities and R&D projects at the Rocky Flats Plant (RFP) (Bldgs. 707, 771, 371, and 776). [Wastes stored at INEL.]	Same as RF 115A.	1,1,1-Trichloroethane	T1
Metal Waste	RF 117A* RF 117B* ID 117A* ID 117C*	320 321 480 488 854	<u>IDC 480</u> D008 FO01 FO02 <u>IDCs 320, 321, and 488</u> D008 <u>IDC 854</u> —	<u>IDCs 320, 321, 480, 488</u> Waste forms include gloveboxes, used shielding, tools, crucibles, machinery, and empty containers (Bldgs. 371, 374, 559, 707, 771, 774, 776, 777, and 779 at RFP). <u>IDC 854</u> Waste generated from operations in Building 777 at RFP.	<u>IDCs 320, 321, 480, 488</u> Waste consists of nonpyrophoric waste metals (iron, copper, aluminum, stainless steel, tungsten, lead, and tantalum). <u>IDC 854</u> Beryllium chips NOTE: RF117B may contain some supercompacted metals.	<u>IDC 480:</u> 1,1,1-Trichloroethane Carbon tetrachloride 1,1,2-Trichloro-1,2,2-trifluoroethane Methylene chloride Lead Beryllium <u>IDCs 320, 321 and 488:</u> Lead <u>IDC 854</u> Beryllium	T2 T2 T2 T1 D T2 D —

Refer to footnotes at end of table.



Table C-1 (Continued)
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Waste Category	Content Codes	Applicable IDCS	Applicable EPA Codes	Process Generating Waste	Waste Description ^b	Hazardous Chemicals ^c	Max Total Conc. ^d
Metal Waste	ID 217A	416	<u>IDC 416</u> —	Generated by the Process Chemistry and Development Group at RFP. [Waste stored at INEL.]	Billets of Zn-Mg alloy.	—	—
Metal Waste	ID 217B	320	<u>IDC 320</u> D008	Waste generated from all of the plutonium areas at RFP. [Waste stored at INEL.]	Waste consists of noncompressible and noncombustible items (i.e., filters, metal equipment, furnace brick, metal crucibles, and funnels). Metals are tantalum, tungsten, platinum, and lead.	<u>IDC 320:</u> 1,1,1-Trichloroethane 1,1,2-Trichloro- 1,2,2-trifluoroethane Carbon tetrachloride Methylene chloride Lead	T T T T M
Metal Waste	ID 217C	480 481	<u>IDC 481</u> D008 <u>IDC 480</u> D008 F001 F002	Same as ID 217B at RFP. [Waste stored at INEL]	Waste form consists of metals from small hand tools, valves, trays, clamps, pipes, gloveboxes, furnaces, tanks, respirator filters, control panels, etc. Metal wastes processed by hot water washing for plutonium recovery.	<u>IDC 481:</u> 1,1,1-Trichloroethane 1,1,2-Trichloro- 1,2,2-trifluoroethane Carbon tetrachloride Methylene chloride Lead <u>IDC 480:</u> Same as IDC 481, as well as: Trichloroethylene Dichloroethane	T T T T M T1 T1
Metal Waste	Unspecified	Unspecified	Unspecified	Unspecified	General	f	



Refer to footnotes at end of table.

Table C-1 (Continued)
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Waste Category	Content Codes	Applicable IDCS	Applicable EPA Codes	Process Generating Waste	Waste Description ^b	Hazardous Chemicals ^c	Max Total Conc. ^d
Glass Waste	RF 118A* RF 118B* ID 118A* ID 118C*	368 370 440 442 443 444	<u>IDs 368, 370, 442</u> — <u>IDC 440</u> D008 D009 <u>IDC 443</u> F001 F002 <u>IDC 444</u> D008 D009	Waste from recovery maintenance and lab operation (Bldgs. 371, 374, 559, 707, 771, 774, 776, 777, and 779 at RFP).	Glass and ceramic waste including leached Raschig rings, ceramic crucibles, glovebox windows, lab glassware, process equipment, and empty containers. NOTE: RF118B may contain supercompacted glass waste.	<u>IDs 368, 370, 442</u> — <u>IDC 440:</u> Lead Mercury <u>IDC 443:</u> 1,1,1-Trichloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane Carbon tetrachloride <u>IDC 444:</u> Lead Mercury	T3 T3 T3 D T2
Glass Waste	ID 218A ID 218B	440 442	<u>IDs 440 and 442</u> F001 F002	Generated by all plutonium processing areas at RFP. [Waste stored at INEL.]	<u>IDC 440:</u> Glass <u>IDC 442:</u> Leached glass neutron absorbers (Raschig rings).	<u>IDs 440 and 442:</u> 1,1,1-Trichloroethane Carbon tetrachloride Lead Methylene chloride	— T T T T1
Glass Waste (Oil Residue)	ID 225B	441		All plutonium processing areas at RFP. [Waste stored at INEL.]	Waste consists of unleached glass neutron-absorbing Raschig rings.	—	
Glass Waste	Unspecified	Unspecified	Unspecified	Unspecified	General	f	



Refer to footnotes at end of table.

Table C-1 (Continued)
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(Group I)

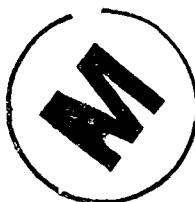
Waste Category	Content Codes	Applicable IDCS	Applicable EPA Codes	Process Generating Waste	Waste Description ^b	Hazardous Chemicals ^c	Max Total Conc. ^d
Combustible Waste	RF 116A* RF 116B* ID 116A* ID 116C*	831 832 833	<u>IDCs 330</u> <u>831,</u> <u>336/832,</u> <u>and</u> <u>337/833</u> FO01 FO02	Waste consists of cloth and paper products from clean-up of gloveboxes and spills (Bldgs. 371, 374, 559, 707, 771, 774, 776, 777, and 779 at RFP).	Solid combustible waste, including paper, rags, cloth, coveralls, plastic, rubber, wood, and other similar material.	1,1,1-Trichloroethane Carbon tetrachloride 1,1,2-Trichloro- 1,2,2-Trifluoroethane Methylene chloride	T T1 T T1
Combustible Waste	ID 116B* ID 216A ID 216B ID 216C	330 336 337 900 970	<u>IDCs 330,</u> <u>336, 337</u> <u>and 900</u> FO01 FO02 <u>IDC 970</u> FO01 FO02 FO03	Waste generated from all of the plutonium areas at RFP. [Waste stored at INEL.]	Waste consists of combustible solids (dry, damp, or moist), including paper, rags, plastic, surgeon's gloves, coveralls and booties, cardboard, wood, plywood sheeting, filter frames, ladders, bottles, laundry lint, Kim-wipes, canvas, sample vials, respirator face masks, etc.; some waste coated with paint and some contain trace levels of HNO ₃ (IDC 336, prior to 1975).	Carbon tetrachloride 1,1,1-Trichloroethane 1,1,2-Trichloro- 1,2,2-trifluoroethane Methylene chloride Trichloroethylene Lead Xylene	T T T T T T
Combustible Waste	Unspecified	Unspecified	Unspecified	Unspecified	General	f	
Filter Waste	RF 119A* RF 119B* ID 119A* ID 119C*	335 338 342 376 490 491	<u>IDCs 335,</u> <u>338, 376,</u> <u>490, and</u> <u>491</u> FO01 FO02 <u>IDC 342</u> -	Filter waste, including dry box filters, HEPA filters, filter media, and Ful-Flo filters (for liquids) (Bldgs. 371, 374, 559, 707, 771, 774, 776, 777, and 779 at RFP).	Frames of filters made of wood or metal and medium is fiberglass or Nomex type material. Ful-Flo filter cartridges consist of polypropylene plastic. Some filter wastes are processed by the addition of Portland cement.	<u>IDCs: 335, 338, 376,</u> <u>490, 491:</u> 1,1,1-Trichloroethane Carbon tetrachloride 1,1,2-Trichloro- 1,2,2-trifluoroethane Methylene chloride <u>IDC 342:</u> -	T1 T1 T1 T2 -



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Filter Waste	ID 219A ID 119B*	335 338 490	<u>IDCs 335, 338, and 490</u> F001 F002	Waste generated at all plutonium areas at RFP, especially Plutonium Recovery Operations, Chemical Operations Support, and Analytical Labs. (Waste stored at INEL)	Waste consists of absolute filters, HEPA filters, Chemical Warfare Service (CWS) filters, fiberglass and asbestos filter media, asbestos pipe insulation, and asbestos gloves and fire blankets. Filter frames are wood, particle board, or aluminum; filter media either fiberglass or asbestos.	1,1,1-Trichloroethane Carbon tetrachloride 1,1,2-Trichloro- 1,2,2-trifluoroethane Methylene chloride	T T T T
Filter Waste	Unspecified	Unspecified	Unspecified	Unspecified	General	f	
Leaded Rubber	RF 123A* RF 123B ID 123A* ID 123C* ID 223A ID 123B	339 463	<u>IDCs 339 and 463</u> D008	Waste consists of discarded glovebox gloves and aprons from all plutonium operations (Bldgs. 371, 374, 559, 707, 771, 774, 776, 777, and 779 at RFP).	Waste consists of leaded gloves and aprons comprised of layers of Hypalon rubber and PbO-impregnated neoprene. Leaded rubber that has been exposed to nitric acid is washed to remove any lead nitrate that may have formed. Limited amounts of unleaded gloves, lead bricks, and lead sheeting may be included.	Lead	D
Leaded Rubber	Unspecified	Unspecified	Unspecified	Unspecified	General	f	



Refer to footnotes at end of table.

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Combustible and Noncombustible Waste	ID 225A* ID 125B	241	<u>IDC 241</u> D008 F002 F003	Waste originated from the americium processing glovebox in the Plutonium Recovery Operations at RFP. [Waste stored at INEL.]	Waste consists of both combustible and noncombustible solids, i.e., dissolved lab samples, absorbed in Oil-Dri, uranium pellets, plutonium sources, glassware, gloves, Kimwipes, and used equipment. Also, piping, flanges, valves, tools, glasswares, filters, polyethylene bottles, glovebox gloves, paper and plastics.	Methylene chloride Xylene Lead	T T M
Combustible and Noncombustible Waste	Unspecified	Unspecified	Unspecified	Unspecified	General	f	
Solid Organic Waste	RF 121A RF 121B* ID 121A ID 121C	302 374	<u>IDC 302</u> — <u>IDC 374</u> F001 F002	The waste consists of organic solid waste that is noncombustible. Benelex/Plexiglas is removed from gloveboxes (Bldgs. 371, 374, 559, 707, 771, 774, 776, 777, and 779 at RFP).	Organic solid waste that is noncombustible. Benelex/Plexiglas neutron shielding, black top, concrete, dirt, and sand.	<u>IDC 302</u> — <u>IDC 374</u> 1,1,1-Trichloroethane Methylene Chloride	T T1
Solid Organic Waste	ID 221A ID 121B*	302 464	<u>IDC 464</u> D008 <u>IDC 302</u> F001	Most waste generated from maintenance and renovation projects by Plutonium Recovery Operations. [Waste stored at INEL.]	Waste consists of Benelex and Plexiglas glovebox windows. Benelex (dense laminated, lignocellulose hardboard made from wood chips and particles). Benelex usually coated with fire retardant paint sometimes had lead sheeting attached to it. Also, leaded glass may be present.	<u>IDC 464 and 302</u> Lead 1,1,1, Trichloroethane <u>IDC 302</u> Trichloroethylene Carbon Tetrachloride	D T1 T1 T1

Refer to footnotes at end of table.

