Table 4. INEL alpha low level mixed and non-mixed radiological alpha activity information. 9/16/95

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
Mixed waste = 1				
2	1	**155**	**ID-AEO-100**	**100**

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-239	2.16E+02	1.05E-06	6.50E+01	8.69E-07	6.50E+01	1.54E-06	9.57E+01	1.28E-06	9.57E+01
PU-242	3.00E+01	2.54E-05	9.99E+01	2.36E-07	9.99E+01	3.44E-05	1.35E+02	3.19E-07	1.35E+02
TH-232	2.70E+01	1.06E-05	0.00E+00	2.95E-03	2.95E-03	1.40E-05	0.00E+00	3.89E-03	3.89E-03
U-233	1.00E-01	5.96E-08	0.00E+00	5.77E-01	5.77E-01	7.29E-08	0.00E+00	7.06E-01	7.06E-01
U-235	5.11E+01	5.87E-06	0.00E+00	1.13E-02	1.13E-02	8.59E-06	0.00E+00	1.65E-02	1.65E-02
U-238	1.26E+02	2.42E-05	0.00E+00	8.12E-03	8.12E-03	3.42E-05	0.00E+00	1.15E-02	1.15E-02

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	2.10E+05	1.40E+05
	Subtotal	2.10E+05	1.40E+05

2	1	**156**	**ID-AEO-101**	**101**

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-239	1.93E+01	9.23E-07	5.72E+01	7.65E-07	5.72E+01	1.31E-06	8.10E+01	1.08E-06	8.10E+01
U-235	9.30E+00	8.20E-06	0.00E+00	1.58E-02	1.58E-02	1.12E-05	0.00E+00	2.16E-02	2.16E-02

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	2.10E+04	1.50E+04
	Subtotal	2.10E+04	1.50E+04

2	1	**297**	**ID-AEO-102**	**102**

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-239	5.82E-02	6.31E-08	3.91E+00	5.23E-08	3.91E+00	8.10E-08	5.02E+00	6.71E-08	5.02E+00
PU-240	7.80E-03	1.30E-08	2.95E+00	1.34E-06	2.95E+00	1.68E-08	3.81E+00	1.73E-06	3.81E+00
TH-232	1.00E+01	7.87E-06	0.00E+00	2.19E-03	2.19E-03	1.04E-05	0.00E+00	2.89E-03	2.89E-03
U-235	2.65E+01	3.44E-05	0.00E+00	6.61E-02	6.61E-02	4.33E-05	0.00E+00	8.32E-02	8.32E-02
U-238	5.61E+02	2.38E-04	0.00E+00	7.98E-02	7.98E-02	3.07E-04	0.00E+00	1.03E-01	1.03E-01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	3.00E+03	2.30E+03
	Subtotal	3.00E+03	2.30E+03

2	1	**206**	**ID-AEO-104**	**104**

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-239	2.84E-01	3.37E-08	2.09E+00	2.79E-08	2.09E+00	5.52E-08	3.42E+00	4.57E-08	3.42E+00
PU-240	9.35E-03	1.21E-07	2.75E+01	1.25E-05	2.75E+01	1.61E-07	3.66E+01	1.66E-05	3.66E+01
U-235	1.85E+02	2.22E-05	0.00E+00	4.27E-02	4.27E-02	3.64E-05	0.00E+00	7.00E-02	7.00E-02

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	8.40E+03	5.10E+03
	Subtotal	8.40E+03	5.10E+03

Table 4. INEL alpha low level mixed and non-mixed radiological alpha activity information. 9/16/95

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	1	**308**	**ID-AEO-105T**	**105**	ID-AEO-105T contains both low-level (Interval 0) and transuranic (Intervals 1 through 34) waste. Interval 0 information is included in the ALLW appendix, intervals 1-34 in the TRUW appendix

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-239	7.60E-02	1.01E-06	6.28E+01	8.40E-07	6.28E+01	2.56E-06	1.59E+02	2.13E-06	1.59E+02
PU-240	1.04E-02	1.39E-07	3.14E+01	1.43E-05	3.14E+01	3.51E-07	7.95E+01	3.61E-05	7.95E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	7.50E+01	3.00E+01
	Subtotal	7.50E+01	3.00E+01

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	1	**310**	**ID-AEO-107T**	**107**	ID-AEO-107T contains both low-level (Interval 0) and transuranic (Intervals 1 through 34) waste. Interval 0 information is included in the ALLW appendix, intervals 1-34 in the TRUW appendix.

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-239	5.80E-01	4.24E-07	2.63E+01	3.52E-07	2.63E+01	6.38E-07	3.96E+01	5.29E-07	3.96E+01
PU-240	6.44E-02	4.71E-08	1.07E+01	4.86E-06	1.07E+01	7.09E-08	1.61E+01	7.30E-06	1.61E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	1.40E+03	9.10E+02
	Subtotal	1.40E+03	9.10E+02

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	**300**	**ID-ANL-161**	**161**

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
AM-241	1.50E-03	1.36E-08	4.56E+01	8.18E-09	4.56E+01	1.88E-08	6.31E+01	1.13E-08	6.31E+01
PU-239	1.60E-01	6.43E-07	3.99E+01	5.33E-07	3.99E+01	9.24E-07	5.73E+01	7.65E-07	5.73E+01
U-235	3.18E-01	2.29E-06	0.00E+00	4.40E-03	4.40E-03	3.40E-06	0.00E+00	6.53E-03	6.53E-03

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	2.50E+02	1.70E+02
	Subtotal	2.50E+02	1.70E+02

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	1	**314**	**ID-ANL-162T**	**162**	ID-ANL-162T contains both low-level (Interval 0) and transuranic (Intervals 1 through 34) waste. Interval 0 information is included in the ALLW appendix, intervals 1-34 in the TRUW appendix.

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-239	4.00E-02	5.71E-07	3.54E+01	4.74E-07	3.54E+01	8.45E-07	5.24E+01	7.01E-07	5.24E+01
U-235	9.00E-01	1.29E-05	0.00E+00	2.47E-02	2.47E-02	1.90E-05	0.00E+00	3.66E-02	3.66E-02

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	7.00E+01	4.70E+01
	Subtotal	7.00E+01	4.70E+01

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	**158**	**ID-BCO-201**	**201**

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-239	1.24E+01	4.63E-07	2.87E+01	3.83E-07	2.87E+01	6.38E-07	3.95E+01	5.28E-07	3.95E+01
U-235	1.30E+02	1.67E-05	0.00E+00	3.21E-02	3.21E-02	2.19E-05	0.00E+00	4.21E-02	4.21E-02

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	2.70E+04	1.90E+04
	Subtotal	2.70E+04	1.90E+04

Table 4. INEL alpha low level mixed and non-mixed radiological alpha activity information. 9/16/95

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	301	ID-BCO-202	202

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-239	1.20E+00	6.31E-07	3.92E+01	5.23E-07	3.92E+01	1.22E-06	7.59E+01	1.01E-06	7.59E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	1.90E+03	9.80E+02
	Subtotal	1.90E+03	9.80E+02

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	302	ID-BCO-203	203

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-239	8.00E-01	5.35E-07	3.31E+01	4.43E-07	3.31E+01	9.05E-07	5.61E+01	7.50E-07	5.61E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	1.50E+03	8.80E+02
	Subtotal	1.50E+03	8.80E+02

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	303	ID-BCO-204	204

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-239	5.00E-01	1.01E-06	6.24E+01	8.34E-07	6.24E+01	1.11E-06	6.86E+01	9.17E-07	6.86E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	5.00E+02	4.50E+02
	Subtotal	5.00E+02	4.50E+02

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	72	ID-BTO-010	10

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
TH-232	1.16E+07	1.68E-01	0.00E+00	4.66E+01	4.66E+01	2.28E-01	0.00E+00	6.34E+01	6.34E+01
U-233	4.13E+04	5.92E-04	0.00E+00	5.73E+03	5.73E+03	8.06E-04	0.00E+00	7.80E+03	7.80E+03

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	7.00E+04	5.10E+04
	Subtotal	7.00E+04	5.10E+04

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	142	ID-BTO-020	20

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
TH-232	2.29E+06	4.04E-02	0.00E+00	1.12E+01	1.12E+01	5.11E-02	0.00E+00	1.42E+01	1.42E+01
U-233	7.63E+03	1.35E-04	0.00E+00	1.31E+03	1.31E+03	1.71E-04	0.00E+00	1.65E+03	1.65E+03

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	5.70E+04	4.50E+04
	Subtotal	5.70E+04	4.50E+04

Table 4. INEL alpha low level mixed and non-mixed radiological alpha activity information. 9/16/95

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	1	**34**	**ID-BTO-030**	**30**	

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-239	1.56E-01	2.78E-07	1.72E+01	2.30E-07	1.72E+01	2.78E-07	1.72E+01	2.30E-07	1.72E+01
TH-232	1.07E+06	2.18E-01	0.00E+00	6.06E+01	6.06E+01	2.77E-01	0.00E+00	7.69E+01	7.69E+01
U-233	6.14E+03	1.12E-03	0.00E+00	1.08E+04	1.08E+04	1.38E-03	0.00E+00	1.34E+04	1.34E+04

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	5.50E+03	4.40E+03
	Subtotal	5.50E+03	4.40E+03

2	1	**213**	**ID-BTO-040T**	**40**	ID-BTO-040T is currently classified as TRUMW. The only radionuclide reported in TWDB for this wastestream is Th-232 and U-233. Since thorium and uranium have atomic numbers of 90 and 92 respectively, they are not usually considered to be transuranium radionuclides, as defined in DOE Order 5820.2A. Since the TRU alpha activity concentration is less than 100 nCi/g. this wastestream may be mixed ALLW.

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
TH-232	8.09E+06	3.11E-01	0.00E+00	8.64E+01	8.64E+01	3.91E-01	0.00E+00	1.09E+02	1.09E+02
U-233	3.59E+04	9.45E-04	0.00E+00	9.15E+03	9.15E+03	1.15E-03	0.00E+00	1.11E+04	1.11E+04

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	3.80E+04	3.10E+04
	Subtotal	3.80E+04	3.10E+04

2	1	**299**	**ID-CPP-156**	**156**

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-239	4.70E+00	4.32E-07	2.68E+01	3.58E-07	2.68E+01	4.32E-07	2.68E+01	3.58E-07	2.68E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	1.10E+04	1.10E+04
	Subtotal	1.10E+04	1.10E+04

2	1	**188**	**ID-INL-150**	**150**

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-239	1.90E+00	2.78E-08	1.72E+00	2.30E-08	1.72E+00	2.78E-08	1.72E+00	2.30E-08	1.72E+00
U-235	8.98E+02	1.30E-05	0.00E+00	2.50E-02	2.50E-02	1.30E-05	0.00E+00	2.51E-02	2.51E-02
U-238	2.59E+03	2.85E-03	0.00E+00	9.59E-01	9.59E-01	4.23E-03	0.00E+00	1.42E+00	1.42E+00

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	6.90E+04	6.90E+04
	Subtotal	6.90E+04	6.90E+04

2	1	**298**	**ID-INL-155**	**155**

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-239	5.82E-03	1.06E-08	6.56E-01	8.77E-09	6.56E-01	1.15E-08	7.15E-01	9.56E-09	7.15E-01
PU-242	7.88E-03	1.43E-08	5.63E-02	1.33E-10	5.63E-02	1.56E-08	6.13E-02	1.45E-10	6.13E-02
TH-232	1.04E+04	5.75E-02	0.00E+00	1.60E+01	1.60E+01	6.58E-02	0.00E+00	1.83E+01	1.83E+01
U-233	3.62E+01	1.19E-04	0.00E+00	1.15E+03	1.15E+03	1.40E-04	0.00E+00	1.36E+03	1.36E+03

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	8.50E+02	7.60E+02
	Subtotal	8.50E+02	7.60E+02

Table 4. INEL alpha low level mixed and non-mixed radiological alpha activity information. 9/16/95

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	1	**146**	**ID-MDO-803**	**803**	No alpha activity data is available for this waste stream.
2	1	**160**	**ID-MDO-824**	**824**	

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-239	1.00E-01	4.79E-08	2.97E+00	3.97E-08	2.97E+00	4.79E-08	2.97E+00	3.97E-08	2.97E+00

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	2.10E+03	2.10E+03
	Subtotal	2.10E+03	2.10E+03

2	1	**77**	**ID-MDO-826**	**826**	No alpha activity data is available for this waste stream.
2	1	**89**	**ID-MDO-827T**	**827**	ID-MDO-827T contains both low-level (Interval 0) and transuranic (Intervals 1 through 34) waste. Interval 0 information is included in the ALLW appendix, intervals 1-34 in the TRUW appendix.

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-239	1.00E-01	1.05E-06	6.51E+01	8.70E-07	6.51E+01	1.38E-06	8.54E+01	1.14E-06	8.54E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	9.50E+01	7.30E+01
	Subtotal	9.50E+01	7.30E+01

2	1	**58**	**ID-MDO-834**	**834**	No alpha activity data is available for this waste stream.
2	1	**59**	**ID-MDO-835**	**835**	

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	2.64E-01	9.43E-07	7.52E+01	3.96E-03	7.52E+01	1.20E-06	9.61E+01	5.05E-03	9.61E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	2.80E+02	2.20E+02
	Subtotal	2.80E+02	2.20E+02

2	1	**60**	**ID-MDO-836**	**836**	

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-83	4.44E-02	6.04E-09	7.68E+01	4.19E-03	7.68E+01	6.79E-09	8.64E+01	4.72E-03	8.64E+01
U-235	1.20E+01	9.52E-05	0.00E+00	1.83E-01	1.83E-01	1.49E-04	0.00E+00	2.86E-01	2.86E-01
U-238	4.60E+03	3.65E-02	0.00E+00	1.23E+01	1.23E+01	5.70E-02	0.00E+00	1.92E+01	1.92E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	7.50E+03	6.60E+03
	Subtotal	7.50E+03	6.60E+03

2	1	**304**	**ID-MDO-838**	**838**	No alpha activity data is available for this waste stream.
2	1	**191**	**ID-MDO-842**	**842**	No alpha activity data is available for this waste stream.

Table 4. INEL alpha low level mixed and non-mixed radiological alpha activity information. 9/16/95

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	1	305	ID-MDO-847	847	No alpha activity data is available for this waste stream.
2	1	306	ID-MDO-848	848	No alpha activity data is available for this waste stream.
2	1	29	ID-OFS-111	111	

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
AM-241	2.03E-01	1.21E-08	4.06E+01	7.27E-09	4.06E+01	1.42E-08	4.75E+01	8.51E-09	4.75E+01
PU-239	1.00E-02	1.45E-07	8.99E+00	1.20E-07	8.99E+00	2.16E-07	1.34E+01	1.79E-07	1.34E+01
PU-52	2.63E+01	6.58E-07	5.25E+01	2.76E-03	5.25E+01	7.83E-07	6.24E+01	3.28E-03	6.24E+01
U-233	1.43E+00	2.07E-05	0.00E+00	2.01E+02	2.01E+02	3.09E-05	0.00E+00	2.99E+02	2.99E+02
U-235	6.70E+01	4.30E-05	0.00E+00	8.26E-02	8.26E-02	5.96E-05	0.00E+00	1.15E-01	1.15E-01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	4.00E+04	3.40E+04
	Subtotal	4.00E+04	3.40E+04

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	157	ID-OFS-121	121

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	1.70E-03	3.86E-08	3.08E+00	1.62E-04	3.08E+00	1.25E-07	9.97E+00	5.24E-04	9.97E+00

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	4.40E+01	1.40E+01
	Subtotal	4.40E+01	1.40E+01

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	293	ID-RFO-000	0

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-239	3.20E+00	7.77E-07	4.82E+01	6.44E-07	4.82E+01	1.01E-06	6.28E+01	8.39E-07	6.28E+01
PU-52	1.58E+01	5.58E-07	4.45E+01	2.34E-03	4.45E+01	7.49E-07	5.98E+01	3.14E-03	5.98E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	3.20E+04	2.40E+04
	Subtotal	3.20E+04	2.40E+04

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	28	ID-RFO-001	1

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	5.51E+00	6.66E-07	5.32E+01	2.80E-03	5.32E+01	7.54E-07	6.02E+01	3.16E-03	6.02E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	8.30E+03	7.30E+03
	Subtotal	8.30E+03	7.30E+03

Table 4. INEL alpha low level mixed and non-mixed radiological alpha activity information. 9/16/95

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	31	ID-RFO-002	2

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	6.98E+02	1.02E-06	8.14E+01	4.28E-03	8.14E+01	1.13E-06	9.02E+01	4.75E-03	9.02E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	6.80E+05	6.20E+05
	Subtotal	6.80E+05	6.20E+05

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	235	ID-RFO-003	3

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	1.84E+02	6.04E-07	4.82E+01	2.53E-03	4.82E+01	6.72E-07	5.36E+01	2.82E-03	5.36E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	3.10E+05	2.70E+05
	Subtotal	3.10E+05	2.70E+05

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	57	ID-RFO-004	4

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	6.06E+01	6.48E-07	5.17E+01	2.72E-03	5.17E+01	7.17E-07	5.72E+01	3.01E-03	5.72E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	9.40E+04	8.50E+04
	Subtotal	9.40E+04	8.50E+04

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	223	ID-RFO-005	5

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	5.00E-01	3.12E-07	2.49E+01	1.31E-03	2.49E+01	3.64E-07	2.90E+01	1.53E-03	2.90E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	1.60E+03	1.40E+03
	Subtotal	1.60E+03	1.40E+03

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	35	ID-RFO-007	7

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
AM-241	1.28E-02	1.24E-10	4.16E-01	7.45E-11	4.16E-01	1.38E-10	4.63E-01	8.30E-11	4.63E-01
PU-52	7.72E+01	7.31E-07	5.83E+01	3.07E-03	5.83E+01	8.15E-07	6.50E+01	3.42E-03	6.50E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	1.10E+05	9.50E+04
	Subtotal	1.10E+05	9.50E+04

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	1	192	ID-RFO-090	90	No alpha activity data is available for this waste stream.

Table 4. INEL alpha low level mixed and non-mixed radiological alpha activity information. 9/16/95

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	55	ID-RFO-112	112

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	7.54E-01	1.75E-07	1.40E+01	7.34E-04	1.40E+01	2.11E-07	1.68E+01	8.84E-04	1.68E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	4.30E+03	3.60E+03
	Subtotal	4.30E+03	3.60E+03

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	30	ID-RFO-113	113

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	6.92E-01	1.93E-07	1.54E+01	8.10E-04	1.54E+01	2.15E-07	1.72E+01	9.02E-04	1.72E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	3.60E+03	3.20E+03
	Subtotal	3.60E+03	3.20E+03

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	56	ID-RFO-114	114

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	2.13E+00	6.91E-07	5.51E+01	2.90E-03	5.51E+01	8.50E-07	6.78E+01	3.57E-03	6.78E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	3.10E+03	2.50E+03
	Subtotal	3.10E+03	2.50E+03

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	73	ID-RFO-116	116

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	2.30E+01	2.39E-07	1.91E+01	1.00E-03	1.91E+01	3.33E-07	2.65E+01	1.40E-03	2.65E+01
U-235	1.46E+02	8.84E-06	0.00E+00	1.70E-02	1.70E-02	1.20E-05	0.00E+00	2.31E-02	2.31E-02

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	9.60E+04	6.90E+04
	Subtotal	9.60E+04	6.90E+04

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	141	ID-RFO-117	117

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	1.50E+01	2.26E-07	1.80E+01	9.47E-04	1.80E+01	2.72E-07	2.17E+01	1.14E-03	2.17E+01
U-235	2.20E+01	4.04E-06	0.00E+00	7.77E-03	7.77E-03	4.85E-06	0.00E+00	9.32E-03	9.32E-03

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	6.60E+04	5.50E+04
	Subtotal	6.60E+04	5.50E+04

Table 4. INEL alpha low level mixed and non-mixed radiological alpha activity information. 9/16/95

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	120	ID-RFO-118	118

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	6.27E-01	1.75E-07	1.39E+01	7.33E-04	1.39E+01	2.15E-07	1.72E+01	9.02E-04	1.72E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	3.60E+03	2.90E+03
	Subtotal	3.60E+03	2.90E+03

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	102	ID-RFO-119	119

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	3.22E+00	1.79E-07	1.43E+01	7.51E-04	1.43E+01	2.75E-07	2.19E+01	1.15E-03	2.19E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	1.80E+04	1.20E+04
	Subtotal	1.80E+04	1.20E+04

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	93	ID-RFO-122	122

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	1.57E+00	1.71E-07	1.36E+01	7.17E-04	1.36E+01	2.10E-07	1.67E+01	8.80E-04	1.67E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	9.20E+03	7.50E+03
	Subtotal	9.20E+03	7.50E+03

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	129	ID-RFO-123	123

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	1.63E-01	1.41E-07	1.12E+01	5.91E-04	1.12E+01	1.98E-07	1.58E+01	8.32E-04	1.58E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	1.20E+03	8.20E+02
	Subtotal	1.20E+03	8.20E+02

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	1	159	ID-RFO-241	241	No alpha activity data is available for this waste stream.

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	1	32	ID-RFO-290	290	No alpha activity data is available for this waste stream.

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	33	ID-RFO-292	292

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	2.58E-01	1.87E-07	1.49E+01	7.83E-04	1.49E+01	2.08E-07	1.66E+01	8.74E-04	1.66E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	1.40E+03	1.20E+03
	Subtotal	1.40E+03	1.20E+03

Table 4. INEL alpha low level mixed and non-mixed radiological alpha activity information. 9/16/95

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	1	171	ID-RFO-300	300	

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	4.98E-02	1.35E-07	1.08E+01	5.66E-04	1.08E+01	1.79E-07	1.43E+01	7.51E-04	1.43E+01
U-233	1.90E+01	1.52E-04	0.00E+00	1.47E+03	1.47E+03	1.85E-04	0.00E+00	1.79E+03	1.79E+03

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	4.90E+02	3.80E+02
	Subtotal	4.90E+02	3.80E+02

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	1	172	ID-RFO-301	301	No alpha activity data is available for this waste stream.

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	1	51	ID-RFO-302	302	

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	7.56E+00	2.51E-07	2.00E+01	1.05E-03	2.00E+01	2.99E-07	2.38E+01	1.25E-03	2.38E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	3.00E+04	2.50E+04
	Subtotal	3.00E+04	2.50E+04

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	1	178	ID-RFO-312T	312	ID-RFO-312T contains both low-level (Interval 0) and transuranic (Intervals 1 through 34) waste. Interval 0 information is included in the ALLW appendix, intervals 1-34 in the TRUW appendix.

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	6.40E-03	9.85E-08	7.85E+00	4.13E-04	7.85E+00	1.51E-07	1.21E+01	6.34E-04	1.21E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	6.50E+01	4.20E+01
	Subtotal	6.50E+01	4.20E+01

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	1	143	ID-RFO-320	320	

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	2.27E-01	1.62E-07	1.29E+01	6.80E-04	1.29E+01	1.97E-07	1.57E+01	8.27E-04	1.57E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	1.40E+03	1.20E+03
	Subtotal	1.40E+03	1.20E+03

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	1	104	ID-RFO-328	328	No alpha activity data is available for this waste stream.

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	1	74	ID-RFO-330	330	

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	1.06E+02	1.90E-07	1.52E+01	7.99E-04	1.52E+01	2.81E-07	2.24E+01	1.18E-03	2.24E+01
U-233	9.00E+00	4.55E-05	0.00E+00	4.41E+02	4.41E+02	6.94E-05	0.00E+00	6.72E+02	6.72E+02
U-235	9.89E+02	3.97E-05	0.00E+00	7.63E-02	7.63E-02	6.11E-05	0.00E+00	1.18E-01	1.18E-01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	5.60E+05	3.80E+05
	Subtotal	5.60E+05	3.80E+05

Table 4. INEL alpha low level mixed and non-mixed radiological alpha activity information. 9/16/95

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	105	ID-RFO-335	335

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	1.42E-02	1.04E-07	8.27E+00	4.35E-04	8.27E+00	1.55E-07	1.24E+01	6.50E-04	1.24E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	1.40E+02	9.20E+01
	Subtotal	1.40E+02	9.20E+01

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	75	ID-RFO-336	336

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	6.01E+00	2.97E-07	2.37E+01	1.24E-03	2.37E+01	4.50E-07	3.59E+01	1.89E-03	3.59E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	2.00E+04	1.30E+04
	Subtotal	2.00E+04	1.30E+04

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	76	ID-RFO-337	337

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	6.00E-01	1.56E-07	1.24E+01	6.54E-04	1.24E+01	2.21E-07	1.76E+01	9.25E-04	1.76E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	3.80E+03	2.70E+03
	Subtotal	3.80E+03	2.70E+03

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	106	ID-RFO-338	338

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	1.06E+01	1.67E-07	1.33E+01	6.99E-04	1.33E+01	2.43E-07	1.94E+01	1.02E-03	1.94E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	6.40E+04	4.40E+04
	Subtotal	6.40E+04	4.40E+04

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	1	130	ID-RFO-339	339	No alpha activity data is available for this waste stream.

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	1	107	ID-RFO-360	360	No alpha activity data is available for this waste stream.

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	94	ID-RFO-371	371

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
AM-241	1.00E-04	8.23E-12	2.75E-02	4.94E-12	2.75E-02	1.14E-11	3.82E-02	6.85E-12	3.82E-02
PU-52	2.15E+00	1.66E-07	1.32E+01	6.94E-04	1.32E+01	2.29E-07	1.82E+01	9.58E-04	1.82E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	1.30E+04	9.40E+03
	Subtotal	1.30E+04	9.40E+03

Table 4. INEL alpha low level mixed and non-mixed radiological alpha activity information. 9/16/95

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	190	ID-RFO-374	374

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
AM-241	4.00E-03	6.99E-11	2.34E-01	4.19E-11	2.34E-01	8.66E-11	2.90E-01	5.19E-11	2.90E-01
PU-52	1.21E+01	1.64E-07	1.31E+01	6.89E-04	1.31E+01	2.00E-07	1.59E+01	8.38E-04	1.59E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	7.40E+04	6.10E+04
	Subtotal	7.40E+04	6.10E+04

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	95	ID-RFO-375	375

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	1.80E-02	1.64E-07	1.31E+01	6.86E-04	1.31E+01	2.06E-07	1.64E+01	8.65E-04	1.64E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	1.10E+02	8.70E+01
	Subtotal	1.10E+02	8.70E+01

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	108	ID-RFO-376	376

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	1.77E+00	1.30E-07	1.03E+01	5.44E-04	1.03E+01	1.99E-07	1.59E+01	8.36E-04	1.59E+01
U-235	4.00E+00	7.69E-05	0.00E+00	1.48E-01	1.48E-01	1.85E-04	0.00E+00	3.56E-01	3.56E-01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	1.40E+04	8.90E+03
	Subtotal	1.40E+04	8.90E+03

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	1	217	ID-RFO-430	430	No alpha activity data is available for this waste stream.

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	1	218	ID-RFO-431	431	No alpha activity data is available for this waste stream.

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	219	ID-RFO-432	432

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	1.30E-02	1.37E-07	1.09E+01	5.74E-04	1.09E+01	1.80E-07	1.43E+01	7.54E-04	1.43E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	9.50E+01	7.20E+01
	Subtotal	9.50E+01	7.20E+01

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	121	ID-RFO-440	440

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	4.01E-01	2.03E-07	1.62E+01	8.51E-04	1.62E+01	2.45E-07	1.95E+01	1.03E-03	1.95E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	2.00E+03	1.60E+03
	Subtotal	2.00E+03	1.60E+03

Table 4. INEL alpha low level mixed and non-mixed radiological alpha activity information. 9/16/95

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	1	122	ID-RFO-441	441	No alpha activity data is available for this waste stream.

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	123	ID-RFO-442	442

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	2.10E-01	2.50E-07	1.99E+01	1.05E-03	1.99E+01	3.18E-07	2.54E+01	1.33E-03	2.54E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	8.40E+02	6.60E+02
	Subtotal	8.40E+02	6.60E+02

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	1	131	ID-RFO-463	463	No alpha activity data is available for this waste stream.

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	1	52	ID-RFO-464	464	No alpha activity data is available for this waste stream.

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	144	ID-RFO-480	480

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	4.04E+02	2.17E-07	1.73E+01	9.11E-04	1.73E+01	2.80E-07	2.23E+01	1.17E-03	2.23E+01
U-233	2.40E+02	1.11E-04	0.00E+00	1.08E+03	1.08E+03	1.51E-04	0.00E+00	1.46E+03	1.46E+03
U-235	6.00E+00	4.27E-06	0.00E+00	8.21E-03	8.21E-03	5.33E-06	0.00E+00	1.03E-02	1.03E-02

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	1.90E+06	1.40E+06
	Subtotal	1.90E+06	1.40E+06

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	145	ID-RFO-481	481

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	8.31E+00	1.74E-07	1.39E+01	7.29E-04	1.39E+01	2.26E-07	1.80E+01	9.46E-04	1.80E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	4.80E+04	3.70E+04
	Subtotal	4.80E+04	3.70E+04

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	109	ID-RFO-490	490

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	6.85E+01	3.13E-07	2.49E+01	1.31E-03	2.49E+01	4.58E-07	3.65E+01	1.92E-03	3.65E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	2.20E+05	1.50E+05
	Subtotal	2.20E+05	1.50E+05

Table 4. INEL alpha low level mixed and non-mixed radiological alpha activity information. 9/16/95

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	78	ID-RFO-900	900

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	2.00E-01	1.67E-07	1.33E+01	6.99E-04	1.33E+01	2.18E-07	1.74E+01	9.13E-04	1.74E+01
U-238	9.00E+03	3.69E-02	0.00E+00	1.24E+01	1.24E+01	5.11E-02	0.00E+00	1.72E+01	1.72E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	1.40E+03	1.10E+03
	Subtotal	1.40E+03	1.10E+03

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	161	ID-RFO-950	950

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	1.18E+01	1.56E-07	1.24E+01	6.53E-04	1.24E+01	1.94E-07	1.55E+01	8.12E-04	1.55E+01
U-238	1.90E+04	4.45E-02	0.00E+00	1.49E+01	1.49E+01	5.65E-02	0.00E+00	1.90E+01	1.90E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	7.60E+04	6.10E+04
	Subtotal	7.60E+04	6.10E+04

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	79	ID-RFO-970	970

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	3.80E+00	1.53E-07	1.22E+01	6.42E-04	1.22E+01	2.10E-07	1.68E+01	8.82E-04	1.68E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	2.50E+04	1.80E+04
	Subtotal	2.50E+04	1.80E+04

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	61	ID-RFO-976	976

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	7.00E-01	4.18E-08	3.33E+00	1.75E-04	3.33E+00	4.74E-08	3.78E+00	1.99E-04	3.78E+00

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	1.70E+04	1.50E+04
	Subtotal	1.70E+04	1.50E+04

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
2	1	62	ID-RFO-978	978

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	3.40E+00	2.18E-07	1.74E+01	9.12E-04	1.74E+01	2.54E-07	2.03E+01	1.07E-03	2.03E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	1.60E+04	1.30E+04
	Subtotal	1.60E+04	1.30E+04

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	1	193	ID-RFO-990	990	No alpha activity data is available for this waste stream.

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	1	294	ID-RFO-9999	9999	No alpha activity data is available for this waste stream.

Table 4. INEL alpha low level mixed and non-mixed radiological alpha activity information. 9/16/95

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	1	**240**	**ID-TAN-162**	*	No alpha activity data is available for this waste stream.
2	1	**241**	**ID-TAN-163**	*	No alpha activity data is available for this waste stream.
2	1	**779**	**LB-W011**	*	No storage (volume, mass) or alpha activity information is available for this waste stream as of this report date.
2	1	**774**	**LB-W012**	*	No storage (volume, mass) or alpha activity information is available for this waste stream as of this report date.
2	1	**780**	**LB-W014**	*	No storage (volume, mass) or alpha activity information is available for this waste stream as of this report date.
2	1	**781**	**LB-W017**	*	No storage (volume, mass) or alpha activity information is available for this waste stream as of this report date.
2	1	**782**	**LB-W018**	*	No storage (volume, mass) or alpha activity information is available for this waste stream as of this report date.
2	1	**783**	**LB-W019**	*	No storage (volume, mass) or alpha activity information is available for this waste stream as of this report date.

1. The TRU alpha activity concentration reported in this section consists of alpha-emitting transuranium radionuclides (a radionuclide having an atomic number greater than 92 and half-life greater than 20 years). All transuranium decay chain progeny classified as TRU are included. All activity calculations are based on a 15 year post purification date or decay date. Fifteen years is a representative waste age average.
2. Subtotal values may not agree with those reported in the storage section since values in this table are based on stored waste quantities for which radiological data are available.
3. Pu-52 and Pu-83 are database nomenclature for weapons grade plutonium (WG Pu) and heat source plutonium (HS Pu), respectively. See Section 4.1 Table 4-6 for the nominal isotopic compositions.
4. Gross Mass=Container mass+waste mass. Waste Mass = Mass of Waste only.

End of category 2 mixed waste 1

Table 4. INEL alpha low level mixed and non-mixed radiological alpha activity information. 9/16/95

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
Mixed waste = 2					
2	2	**764**	**CH-ANL-RDA**	*	No alpha activity data is available for this waste stream.
2	2	**214**	**ID-BTO-012TN**	**12**	ID-BTO-012TN is currently classified as TRUW. The only radionuclide reported in TWDB for this wastestream is Ra-226. Since radium has an atomic number of 88 it is not usually considered to be a transuranium radionuclide, as defined in DOE Order 5820.2A. Since the TRU alpha activity concentration is less than 100 nCi/g this wastestream may be ALLW.

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
RA-226	4.86E-02	3.04E-07	0.00E+00	6.81E+02	6.81E+02	3.75E-07	0.00E+00	8.41E+02	8.41E+02

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	1.60E+02	1.30E+02
	Subtotal	1.60E+02	1.30E+02

2	2	**154**	**ID-BTO-081TN**	**81**	ID-BTO-081TN is currently classified as TRUW. The only radionuclide reported in TWDB for this wastestream is Th-232 and U-233. Since thorium and uranium have atomic numbers of 90 and 92 respectively, they are not usually considered to be transuranium radionuclides, as defined in DOE Order 5820.2A. Since the TRU alpha activity concentration is less than 100 nCi/g. this wastestream may be ALLW.

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
TH-232	1.06E+05	7.79E-02	0.00E+00	2.17E+01	2.17E+01	1.26E-01	0.00E+00	3.49E+01	3.49E+01
U-233	2.74E+03	2.02E-03	0.00E+00	1.95E+04	1.95E+04	3.25E-03	0.00E+00	3.15E+04	3.15E+04

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	1.40E+03	8.40E+02
	Subtotal	1.40E+03	8.40E+02

2	2	**207**	**ID-INL-153N**	**153**

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-239	4.00E-01	9.46E-07	5.86E+01	7.84E-07	5.86E+01	9.46E-07	5.86E+01	7.84E-07	5.86E+01
U-235	2.24E+02	1.90E-04	0.00E+00	3.65E-01	3.65E-01	2.81E-04	0.00E+00	5.40E-01	5.40E-01
U-238	1.50E+02	7.14E-04	0.00E+00	2.40E-01	2.40E-01	7.14E-04	0.00E+00	2.40E-01	2.40E-01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	1.20E+03	8.00E+02
	Subtotal	1.20E+03	8.00E+02

2	2	**162**	**ID-MDO-825N**	**825**

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-239	4.00E-01	1.31E-06	8.13E+01	1.09E-06	8.13E+01	1.42E-06	8.79E+01	1.17E-06	8.79E+01
PU-52	1.32E-01	1.10E-06	8.78E+01	4.61E-03	8.78E+01	1.47E-06	1.18E+02	6.18E-03	1.18E+02
U-235	3.00E+00	7.69E-05	0.00E+00	1.48E-01	1.48E-01	1.84E-04	0.00E+00	3.54E-01	3.54E-01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	4.60E+02	3.90E+02
	Subtotal	4.60E+02	3.90E+02

2	2	**36**	**ID-RFO-095**	**95**	No alpha activity data is available for this waste stream.

Table 4. INEL alpha low level mixed and non-mixed radiological alpha activity information. 9/16/95

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	2	173	ID-RFO-115N	115	

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	5.05E-02	1.23E-07	9.80E+00	5.15E-04	9.80E+00	1.95E-07	1.56E+01	8.18E-04	1.56E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	4.10E+02	2.60E+02
	Subtotal	4.10E+02	2.60E+02

2	2	174	ID-RFO-310N	310	No alpha activity data is available for this waste stream.

2	2	175	ID-RFO-370N	370	No alpha activity data is available for this waste stream.

2	2	189	ID-RFO-372N	372	No alpha activity data is available for this waste stream.

2	2	194	ID-RFO-425N	425	No alpha activity data is available for this waste stream.

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	2	96	ID-RFO-960N	960	

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	4.40E+00	1.79E-07	1.42E+01	7.49E-04	1.42E+01	1.83E-07	1.46E+01	7.67E-04	1.46E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	2.50E+04	2.40E+04
	Subtotal	2.50E+04	2.40E+04

Waste Category 2=ALLW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
2	2	37	ID-RFO-995N	995	

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Pu Mix Mass per Gross Mass (g/g)	TRU Alpha Activity per Gross Mass (nCi/g)	Non-TRU Alpha Activity per Gross Mass (nCi/g)	Total Alpha Activity per Gross Mass (nCi/g)	Nuclide / Pu Mix Mass per Waste Mass (g/g)	TRU Alpha Activity per Waste Mass (nCi/g)	Non-TRU Alpha Activity per Waste Mass (nCi/g)	Total Alpha Activity per Waste Mass (nCi/g)
PU-52	7.40E+00	3.65E-07	2.91E+01	1.53E-03	2.91E+01	4.24E-07	3.38E+01	1.78E-03	3.38E+01

Alpha activity concentration profile (Notes: 1,2,3,4)

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
0	nCi/g < 100	2.00E+04	1.70E+04
	Subtotal	2.00E+04	1.70E+04

2	2	208	ID-TRA-154N	154	No alpha activity data is available for this waste stream.

1. The TRU alpha activity concentration reported in this section consists of alpha-emitting transuranium radionuclides (a radionuclide having an atomic number greater than 92 and half-life greater than 20 years). All transuranium decay chain progeny classified as TRU are included. All activity calculations are based on a 15 year post purification date or decay date. Fifteen years is a representative waste age average.
2. Subtotal values may not agree with those reported in the storage section since values in this table are based on stored waste quantities for which radiological data are available.
3. Pu-52 and Pu-83 are database nomenclature for weapons grade plutonium (WG Pu) and heat source plutonium (HS Pu), respectively. See Section 4.1 Table 4-6 for the nominal isotopic compositions.
4. Gross Mass=Container mass+waste mass. Waste Mass = Mass of Waste only.

End of category 2 mixed waste 2