THE CONTENTS OF THIS SECTION ARE
THE HIGHEST QUALITY AVAILABLE

INITIAL MD DATE 10/08/2001

Table 4. INEL transura

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code
3	1	164

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / Mass pe Mass
AM-241	1.00E-01	3.67I
NP-237	1.94E+02	2.17I
PU-239	7.23E+02	1.66I
PU-240	2.35E+03	6.52I
PU-241	4.80E-01	4.80I
U-235	1.00E+00	7.87I
U-238	3.06E+04	2.43I

Alpha activity concentration profile (N

Interval number	TRU alpha activity concentration
1	100 <= nCi/ 500
2	500 <= nCi/ 1,000
3	1,000 <= nCi/ 2,000
4	2,000 <= nCi/ 3,000
10	8,000 <= nCi/ 9,000
11	9,000 <= nCi/ 10,000
12	10,000 <= nCi/ 20,000
13	20,000 <= nCi/ 30,000
20	90,000 <= nCi/ 100,000
	Subtotal

3	1	307

Isotopic Composition Profile

Major Nuclide / Pu Mix	Nuclide / Pu Mix Mass (g)	Nuclide / P Mass per Mass (g
AM-241	6.03E-01	1.04E-
PU-239	1.14E+03	2.22E-
PU-240	5.71E+02	1.66E-
TH-232	9.80E+01	7.45E-
U-235	1.60E+01	6.66E-
U-238	1.09E+03	5.95E-

Alpha activity concentration profile (Not

Interval number	TRU alpha activity concentration
1	100 <= nCi/ 500
2	500 <= nCi/ 1,000
4	2,000 <= nCi/ 3,000
5	3,000 <= nCi/ 4,000
7	5,000 <= nCi/ 6,000
8	6,000 <= nCi/ 7,000
10	8,000 <= nCi/ 9,000
11	9,000 <= nCi/ 10,000
12	10,000 <= nCi/ 20,000
13	20,000 <= nCi/ 30,000
15	40,000 <= nCi/ 50,000
16	50,000 <= nCi/ 60,000
18	70,000 <= nCi/ 80,000
19	80,000 <= nCi/ 90,000
21	100,000 <= nCi/ 200,000
	Subtotal

Table 4. INEL transuranic mixed and non-mixed radiological alpha activity information.

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
Mixed waste = 1					
3	1	391	CH-ANL-142T	*	No alpha activity data is available for this waste stream.
3	1	9	CH-ANL-180T	*	No alpha activity data is available for this waste stream.
3	1	11	CH-ANL-182T	*	No alpha activity data is available for this waste stream.
3	1	15	CH-ANL-218T	*	No alpha activity data is available for this waste stream.
3	1	17	CH-ANL-241T	*	No alpha activity data is available for this waste stream.
3	1	19	CH-ANL-243T	*	No alpha activity data is available for this waste stream.
3	1	21	CH-ANL-245T	*	No alpha activity data is available for this waste stream.
3	1	22	CH-ANL-246T	*	No alpha activity data is available for this waste stream.
3	1	392	CH-ANL-503T	*	No alpha activity data is available for this waste stream.
3	1	390	CH-ANL-505T	*	No alpha activity data is available for this waste stream.
3	1	163	ID-AEO-100T	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 Alp Activity Waste M (nCi/g
AM-241	4.52E+01	5.22E-05	1.75E+05	3.13E-05	1.75E+05	8.07E-05	2.70E+
NP-237	3.02E+01	3.02E-05	2.13E+01	9.12E-04	2.13E+01	4.36E-05	3.07E+
PU-239	1.04E+03	1.82E-04	1.13E+04	1.51E-04	1.13E+04	2.48E-04	1.54E+
PU-240	1.27E+03	1.84E-04	4.17E+04	1.89E-02	4.17E+04	2.55E-04	5.78E+
U-235	3.35E+01	1.43E-05	0.00E+00	2.74E-02	2.74E-02	1.93E-05	0.00E+
U-238	8.51E+02	6.43E-04	0.00E+00	2.16E-01	2.16E-01	9.21E-04	0.00E-

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	5.80E+03	4.20E+03
2	500 <= nCi/ 1,000	5.40E+03	3.90E+03
3	1,000 <= nCi/ 2,000	2.40E+04	1.80E+04
4	2,000 <= nCi/ 3,000	3.10E+04	2.10E+04
5	3,000 <= nCi/ 4,000	1.10E+04	6.40E+03
6	4,000 <= nCi/ 5,000	2.30E+03	1.70E+03
12	10,000 <= nCi/ 20,000	3.70E+03	2.80E+03
13	20,000 <= nCi/ 30,000	6.50E+03	4.60E+03
21	100,000 <= nCi/ 200,000	8.60E+02	5.60E+02
	Subtotal	9.06E+04	6.32E+04

Table 4. INEL transuranic mixed and non-mixed radiological alpha activity information. 9/17/95

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	209	ID-AEO-104T	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	2.49E+02	7.74E-04	4.80E+04	6.41E-04	4.80E+04	1.13E-03	7.02E+04	9.38E-04	7.02E+04
PU-240	7.53E+00	9.96E-06	2.26E+03	1.03E-03	2.26E+03	1.73E-05	3.91E+03	1.78E-03	3.91E+03
U-235	1.78E+03	1.84E-03	0.00E+00	3.54E+00	3.54E+00	3.02E-03	0.00E+00	5.80E+00	5.80E+00

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	6.90E+03	4.30E+03
2	500 <= nCi/ 1,000	5.30E+03	3.60E+03
3	1,000 <= nCi/ 2,000	2.30E+03	1.30E+03
4	2,000 <= nCi/ 3,000	2.70E+02	1.40E+02
5	3,000 <= nCi/ 4,000	3.60E+02	1.90E+02
7	5,000 <= nCi/ 6,000	3.50E+02	2.30E+02
8	6,000 <= nCi/ 7,000	7.30E+01	5.40E+01
9	7,000 <= nCi/ 8,000	7.00E+01	5.10E+01
10	8,000 <= nCi/ 9,000	1.40E+02	9.80E+01
12	10,000 <= nCi/ 20,000	2.00E+02	1.40E+02
	Subtotal	1.60E+04	1.01E+04

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	308	ID-AEO-105T	105

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	3.27E+01	4.97E-04	3.08E+04	4.12E-04	3.08E+04	1.07E-03	6.63E+04	8.85E-04	6.63E+04
PU-240	3.07E+01	3.78E-04	8.58E+04	3.90E-02	8.58E+04	7.92E-04	1.79E+05	8.15E-02	1.79E+05

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	3.80E+01	1.50E+01
12	10,000 <= nCi/ 20,000	4.10E+01	1.80E+01
15	40,000 <= nCi/ 50,000	1.20E+02	4.70E+01
16	50,000 <= nCi/ 60,000	5.30E+01	3.00E+01
	Subtotal	2.52E+02	1.10E+02

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	309	ID-AEO-106T	106

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	1.96E+02	2.61E-03	1.62E+05	2.17E-03	1.62E+05	3.75E-03	2.32E+05	3.11E-03	2.32E+05
PU-240	1.64E+02	2.19E-03	4.96E+05	2.25E-01	4.96E+05	3.14E-03	7.10E+05	3.23E-01	7.10E+05

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
26	600,000 <= nCi/ 700,000	7.50E+01	5.20E+01
	Subtotal	7.50E+01	5.20E+01

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	310	ID-AEO-107T	107

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	3.38E+01	9.05E-05	5.61E+03	7.50E-05	5.61E+03	1.55E-04	9.61E+03	1.28E-04	9.61E+03
PU-240	5.93E+00	1.14E-05	2.58E+03	1.17E-03	2.58E+03	1.96E-05	4.44E+03	2.02E-03	4.44E+03

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	2.30E+03	1.40E+03
2	500 <= nCi/ 1,000	2.80E+03	1.80E+03
3	1,000 <= nCi/ 2,000	4.20E+02	2.10E+02
4	2,000 <= nCi/ 3,000	5.20E+01	3.30E+01
5	3,000 <= nCi/ 4,000	4.40E+01	2.50E+01
	Subtotal	5.62E+03	3.47E+03

Table 4. INEL transuranic mixed and non-mixed radiological alpha activity information.

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	81	ID-AEO-110T	110

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	4.08E-01	6.38E-06	2.13E+04	3.83E-06	2.13E+04	9.87E-06	3.30E+04	5.92E-06	3.30E+04
AM-243	3.00E-02	4.76E-07	9.48E+01	2.78E-10	9.48E+01	7.44E-07	1.48E+02	4.34E-10	1.48E+02
PU-239	2.90E+02	2.53E-03	1.57E+05	2.10E-03	1.57E+05	3.90E-03	2.42E+05	3.23E-03	2.42E+05
PU-241	1.77E+00	1.48E-06	2.57E+03	1.78E+00	2.57E+03	1.98E-06	3.45E+03	2.39E+00	3.45E+03

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	6.30E+01	4.00E+01
11	9,000 <= nCi/ 10,000	1.20E+03	8.90E+02
21	100,000 <= nCi/ 200,000	6.40E+01	4.10E+01
	Subtotal	1.33E+03	9.71E+02

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	83	ID-AEO-120T	120

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	6.34E-01	1.15E-05	3.85E+04	6.91E-06	3.85E+04	2.00E-05	6.70E+04	1.20E-05	6.70E+04
PU-239	1.41E+02	2.56E-03	1.59E+05	2.12E-03	1.59E+05	4.45E-03	2.76E+05	3.69E-03	2.76E+05

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
12	10,000 <= nCi/ 20,000	9.30E+01	7.00E+01
21	100,000 <= nCi/ 200,000	5.20E+01	2.90E+01
	Subtotal	1.45E+02	9.90E+01

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	313	ID-ANL-160T	160

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	3.21E+01	1.40E-04	8.65E+03	1.16E-04	8.65E+03	1.40E-04	8.65E+03	1.16E-04	8.65E+03
U-235	1.30E+02	5.65E-04	0.00E+00	1.09E+00	1.09E+00	5.65E-04	0.00E+00	1.09E+00	1.09E+00

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
10	8,000 <= nCi/ 9,000	2.30E+02	2.30E+02
	Subtotal	2.30E+02	2.30E+02

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
3	1	300	ID-ANL-161	161	ID-ANL-161 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	3.09E+01	3.46E-04	2.14E+04	2.87E-04	2.14E+04	4.63E-04	2.87E+04	3.84E-04	2.87E+04
U-235	1.17E+02	1.29E-03	0.00E+00	2.49E+00	2.49E+00	1.73E-03	0.00E+00	3.32E+00	3.32E+00

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
3	1,000 <= nCi/ 2,000	9.60E+01	7.30E+01
13	20,000 <= nCi/ 30,000	8.90E+01	6.60E+01
	Subtotal	1.85E+02	1.39E+02

Table 4. INEL transuranic mixed and non-mixed radiological alpha activity information.

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	314	ID-ANL-162T	162

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+03	8.31E-03	5.15E+05	6.89E-03	5.15E+05	2.12E-02	1.31E+06	1.76E-02	1.31E+06
PU-240	2.11E+00	2.57E-05	5.83E+03	2.65E-03	5.83E+03	3.56E-05	8.06E+03	3.66E-03	8.06E+03
U-235	4.10E+03	2.08E-02	0.00E+00	4.00E+01	4.00E+01	5.23E-02	0.00E+00	1.01E+02	1.01E+02

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	7.50E+02	4.90E+02
2	500 <= nCi/ 1,000	6.80E+01	4.50E+01
4	2,000 <= nCi/ 3,000	8.40E+01	6.10E+01
5	3,000 <= nCi/ 4,000	1.60E+02	1.20E+02
6	4,000 <= nCi/ 5,000	7.70E+01	5.40E+01
9	7,000 <= nCi/ 8,000	8.20E+01	5.90E+01
11	9,000 <= nCi/ 10,000	7.30E+01	5.00E+01
12	10,000 <= nCi/ 20,000	1.60E+02	1.10E+02
14	30,000 <= nCi/ 40,000	1.30E+02	7.20E+01
17	60,000 <= nCi/ 70,000	7.80E+01	3.30E+01
18	70,000 <= nCi/ 80,000	8.00E+01	3.50E+01
19	80,000 <= nCi/ 90,000	4.10E+01	1.10E+01
20	90,000 <= nCi/ 100,000	5.80E+02	2.30E+02
21	100,000 <= nCi/ 200,000	3.10E+02	1.30E+02
	Subtotal	2.67E+03	1.50E+03

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	315	ID-ANL-163T	163

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	9.58E+00	1.14E-04	7.08E+03	9.46E-05	7.08E+03	1.65E-04	1.02E+04	1.37E-04	1.02E+04
U-235	6.89E+01	8.88E-04	0.00E+00	1.71E+00	1.71E+00	1.28E-03	0.00E+00	2.45E+00	2.45E+00

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	3.50E+02	2.60E+02
3	1,000 <= nCi/ 2,000	6.60E+01	4.30E+01
7	5,000 <= nCi/ 6,000	7.50E+01	5.20E+01
	Subtotal	4.91E+02	3.55E+02

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	166	ID-BCO-201T	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	2.40E+02	6.52E-04	4.10E+04	5.49E-04	4.10E+04	8.19E-04	5.08E+04	6.79E-04	5.08E+04
U-235	2.33E+03	3.51E-03	0.00E+00	6.74E+00	6.74E+00	4.25E-03	0.00E+00	8.17E+00	8.17E+00

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	1.60E+04	1.20E+04
2	500 <= nCi/ 1,000	1.70E+03	1.30E+03
3	1,000 <= nCi/ 2,000	3.70E+02	3.20E+02
4	2,000 <= nCi/ 3,000	2.70E+02	2.30E+02
5	3,000 <= nCi/ 4,000	1.90E+02	1.70E+02
6	4,000 <= nCi/ 5,000	4.50E+02	3.60E+02
7	5,000 <= nCi/ 6,000	5.00E+02	4.40E+02
8	6,000 <= nCi/ 7,000	2.80E+02	2.30E+02
9	7,000 <= nCi/ 8,000	9.70E+01	7.40E+01
10	8,000 <= nCi/ 9,000	9.30E+01	7.00E+01
	Subtotal	2.00E+04	1.52E+04

Table 4. INEL transuranic mixed and non-mixed radiological alpha activity information.

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	317	ID-BCO-202T	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	1.18E+01	4.97E-05	3.08E+03	4.12E-05	3.08E+03	7.89E-05	4.89E+03	6.54E-05	4.89E+03

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	1.20E+02	7.10E+01
2	500 <= nCi/ 1,000	9.50E+02	6.50E+02
4	2,000 <= nCi/ 3,000	6.00E+01	3.70E+01
	Subtotal	1.13E+03	7.58E+02

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	318	ID-BCO-203T	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	8.28E+01	4.56E-04	2.83E+04	3.78E-04	2.83E+04	5.94E-04	3.68E+04	4.92E-04	3.68E+04
U-235	1.23E+03	7.62E-03	0.00E+00	1.47E+01	1.47E+01	9.84E-03	0.00E+00	1.89E+01	1.89E+01

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	1.10E+03	8.30E+02
2	500 <= nCi/ 1,000	4.10E+02	3.20E+02
3	1,000 <= nCi/ 2,000	5.90E+01	3.60E+01
4	2,000 <= nCi/ 3,000	2.30E+02	1.70E+02
5	3,000 <= nCi/ 4,000	1.10E+02	8.60E+01
6	4,000 <= nCi/ 5,000	2.10E+02	1.60E+02
8	6,000 <= nCi/ 7,000	2.50E+02	2.00E+02
10	8,000 <= nCi/ 9,000	9.30E+01	7.00E+01
	Subtotal	2.46E+03	1.87E+03

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	319	ID-BCO-204T	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-238	4.00E-01	1.48E-06	2.24E+04	1.08E+00	2.24E+04	1.61E-06	2.45E+04	1.18E+00	2.45E+04
PU-239	8.00E-01	1.73E-06	1.07E+02	1.43E-06	1.07E+02	1.92E-06	1.19E+02	1.59E-06	1.19E+02

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	4.60E+02	4.20E+02
13	20,000 <= nCi/ 30,000	2.70E+02	2.50E+02
	Subtotal	7.30E+02	6.70E+02

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
3	1	80	ID-BTO-010T	10	No alpha activity data is available for this waste stream.

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	148	ID-BTO-020T	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)
AM-241	1.00E-01	8.89E-07	2.98E+03	5.33E-07	2.98E+03	1.11E-06	3.73E+03	6.68E-07	3.73E+03
PU-239	1.00E+00	9.76E-06	6.05E+02	8.09E-06	6.05E+02	1.25E-05	7.77E+02	1.04E-05	7.77E+02
U-233	6.00E+00	5.85E-05	0.00E+00	5.67E+02	5.67E+02	7.52E-05	0.00E+00	7.28E+02	7.28E+02

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
2	500 <= nCi/ 1,000	1.00E+02	8.00E+01
4	2,000 <= nCi/ 3,000	1.10E+02	9.00E+01
	Subtotal	2.10E+02	1.70E+02

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
3	1	43	ID-BTO-030T	30	No alpha activity data is available for this waste stream.

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
3	1	213	ID-BTO-040T	40	No alpha activity data is available for this waste stream.

Table 4. INEL transuranic mixed and non-mixed radiological alpha activity information.

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
3	1	210	ID-CPP-151T	151	

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+00	1.89E-05	1.51E+03	7.93E-02	1.51E+03	2.15E-05	1.71E+03	9.01E-02	1.71E+03
U-235	4.00E+02	1.26E-03	0.00E+00	2.42E+00	2.42E+00	1.43E-03	0.00E+00	2.75E+00	2.75E+00

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
3	1,000 <= nCi/ 2,000	3.20E+02	2.80E+02
	Subtotal	3.20E+02	2.80E+02

3	1	299	ID-CPP-156	156	ID-CPP-156 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	5.00E+00	2.00E-05	1.24E+03	1.66E-05	1.24E+03	2.00E-05	1.24E+03	1.66E-05	1.24E+03

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
3	1,000 <= nCi/ 2,000	2.50E+02	2.50E+02
	Subtotal	2.50E+02	2.50E+02

3	1	347	ID-CPP-172	*	No alpha activity data is available for this waste stream.

3	1	204	ID-INL-142T	*	No alpha activity data is available for this waste stream.

3	1	195	ID-INL-150T	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)
AM-241	6.57E+00	7.60E-05	2.54E+05	4.56E-05	2.54E+05	1.37E-04	4.59E+05	8.23E-05	4.59E+05
PU-238	1.54E+00	5.91E-06	8.99E+04	4.34E+00	8.99E+04	7.16E-06	1.09E+05	5.26E+00	1.09E+05
PU-239	3.73E+03	7.66E-02	4.75E+06	6.35E-02	4.75E+06	3.12E-02	1.94E+06	2.59E-02	1.94E+06
PU-240	1.06E+02	5.32E-03	1.20E+06	5.48E-01	1.20E+06	5.52E-03	1.25E+06	5.68E-01	1.25E+06
PU-242	2.00E-02	2.94E-07	1.16E+00	2.73E-09	1.16E+00	4.41E-07	1.73E+00	4.10E-09	1.73E+00
PU-52	2.50E+00	5.51E-05	4.40E+03	2.31E-01	4.40E+03	1.10E-04	8.79E+03	4.62E-01	8.79E+03
U-235	1.86E+04	2.89E-01	0.00E+00	5.56E+02	5.56E+02	6.[illegible]E-02	0.00E+00	1.33E+02	1.33E+02
U-238	7.34E+02	8.38E-03	0.00E+00	2.82E+00	2.82E+00	1.25E-02	0.00E+00	4.21E+00	4.21E+00

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	2.00E+03	1.80E+03
2	500 <= nCi/ 1,000	5.40E+02	4.90E+02
3	1,000 <= nCi/ 2,000	1.00E+03	8.60E+02
4	2,000 <= nCi/ 3,000	1.10E+03	1.00E+03
5	3,000 <= nCi/ 4,000	7.90E+02	6.80E+02
6	4,000 <= nCi/ 5,000	2.20E+02	1.60E+02
7	5,000 <= nCi/ 6,000	6.60E+01	4.50E+01
8	6,000 <= nCi/ 7,000	1.80E+02	1.10E+02
9	7,000 <= nCi/ 8,000	6.20E+02	5.30E+02
10	8,000 <= nCi/ 9,000	3.20E+02	2.80E+02
11	9,000 <= nCi/ 10,000	2.10E+02	2.10E+02
12	10,000 <= nCi/ 20,000	1.20E+03	8.10E+02
13	20,000 <= nCi/ 30,000	3.90E+02	2.80E+02
14	30,000 <= nCi/ 40,000	4.60E+02	3.50E+02
15	40,000 <= nCi/ 50,000	2.30E+02	1.40E+02
16	50,000 <= nCi/ 60,000	3.40E+02	2.50E+02
17	60,000 <= nCi/ 70,000	4.70E+02	2.70E+02
18	70,000 <= nCi/ 80,000	5.20E+02	2.90E+02
19	80,000 <= nCi/ 90,000	2.00E+02	8.50E+01
20	90,000 <= nCi/ 100,000	6.80E+01	4.50E+01
21	100,000 <= nCi/ 200,000	5.80E+02	2.90E+02
22	200,000 <= nCi/ 300,000	3.90E+01	1.60E+01
24	400,000 <= nCi/ 500,000	1.30E+01	0.00E+00
30	1,000,000 <= nCi/ 2,500,000	1.60E+01	1.60E+01
31	2,500,000 <= nCi/ 5,000,000	6.80E-01	0.00E+00
	Subtotal	1.16E+04	9.01E+03

Table 4. INEL transuranic mixed and non-mixed radiological alpha activity information.

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	311	ID-INL-155T	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)
AM-241	2.68E+01	1.30E-05	4.34E+04	7.77E-06	4.34E+04	1.31E-05	4.40E+04	7.88E-06	4.40E+04
PU-238	1.50E+00	2.21E-05	3.35E+05	1.62E+01	3.35E+05	6.61E-05	1.01E+06	4.85E+01	1.01E+06
PU-239	3.36E+02	4.11E-03	2.55E+05	3.40E-03	2.55E+05	6.63E-03	4.11E+05	5.49E-03	4.11E+05
PU-240	5.84E+01	1.00E-03	2.27E+05	1.03E-01	2.27E+05	1.65E-03	3.74E+05	1.70E-01	3.74E+05
TH-232	5.50E+03	1.43E-02	0.00E+00	3.96E+00	3.96E+00	1.52E-02	0.00E+00	4.21E+00	4.21E+00
U-235	1.28E+02	1.88E-03	0.00E+00	3.62E+00	3.62E+00	2.82E-03	0.00E+00	5.43E+00	5.43E+00

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
3	1,000 <= nCi/ 2,000	5.10E+02	4.20E+02
7	5,000 <= nCi/ 6,000	3.90E+02	3.60E+02
12	10,000 <= nCi/ 20,000	4.40E+03	4.30E+03
13	20,000 <= nCi/ 30,000	1.00E+03	1.00E+03
17	60,000 <= nCi/ 70,000	6.80E+01	4.50E+01
18	70,000 <= nCi/ 80,000	9.00E+01	6.70E+01
19	80,000 <= nCi/ 90,000	8.90E+01	6.60E+01
22	200,000 <= nCi/ 300,000	5.70E+01	3.40E+01
23	300,000 <= nCi/ 400,000	6.80E+01	2.30E+01
	Subtotal	6.67E+03	6.32E+03

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	312	ID-INL-157T	157

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	2.09E+00	2.78E-05	9.31E+04	1.67E-05	9.31E+04	4.52E-05	1.51E+05	2.71E-05	1.51E+05
CF-252	1.00E-04	1.85E-09	6.84E-03	1.90E+01	1.90E+01	3.19E-09	1.18E-02	3.28E+01	3.28E+01
PU-239	1.00E+00	1.10E-05	6.81E+02	9.11E-06	6.81E+02	1.46E-05	9.08E+02	1.21E-05	9.08E+02

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
8	6,000 <= nCi/ 7,000	9.10E+01	6.80E+01
12	10,000 <= nCi/ 20,000	1.90E+02	1.60E+02
18	70,000 <= nCi/ 80,000	5.40E+01	3.10E+01
	Subtotal	3.35E+02	2.59E+02

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	320	ID-MDO-801T	801

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-238	2.76E+01	4.89E-05	7.43E+05	3.59E+01	7.43E+05	8.60E-05	1.31E+06	6.31E+01	1.31E+06
PU-83	4.43E-01	9.43E-06	1.20E+05	6.55E+00	1.20E+05	3.76E-05	4.78E+05	2.61E+01	4.79E+05

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	1.40E+02	1.10E+02
8	6,000 <= nCi/ 7,000	1.60E+02	1.30E+02
12	10,000 <= nCi/ 20,000	1.40E+02	1.20E+02
21	100,000 <= nCi/ 200,000	2.40E+02	1.40E+02
22	200,000 <= nCi/ 300,000	1.00E+03	5.80E+02
23	300,000 <= nCi/ 400,000	4.30E+02	2.20E+02
	Subtotal	2.11E+03	1.30E+03

Table 4. INEL transuranic mixed and non-mixed radiological alpha activity information. 9/17/95

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	135	ID-MDO-802T	802

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-01	6.35E-06	2.13E+04	3.81E-06	2.13E+04	9.92E-06	3.32E+04	5.95E-06	3.32E+04
PU-238	1.47E+02	4.04E-04	6.14E+06	2.96E+02	6.14E+06	6.48E-04	9.85E+06	4.75E+02	9.85E+06
PU-239	2.89E+02	2.86E-03	1.77E+05	2.37E-03	1.77E+05	4.44E-03	2.75E+05	3.68E-03	2.75E+05
PU-240	1.70E+02	2.44E-03	5.53E+05	2.51E-01	5.53E+05	3.67E-03	8.31E+05	3.78E-01	8.31E+05

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	4.70E+02	3.30E+02
2	500 <= nCi/ 1,000	9.70E+01	5.20E+01
5	3,000 <= nCi/ 4,000	1.60E+02	1.10E+02
6	4,000 <= nCi/ 5,000	1.90E+02	1.20E+02
7	5,000 <= nCi/ 6,000	5.20E+01	2.90E+01
13	20,000 <= nCi/ 30,000	6.30E+01	4.00E+01
14	30,000 <= nCi/ 40,000	4.50E+01	2.20E+01
17	60,000 <= nCi/ 70,000	4.80E+01	2.50E+01
20	90,000 <= nCi/ 100,000	7.90E+01	5.60E+01
21	100,000 <= nCi/ 200,000	7.40E+02	5.30E+02
22	200,000 <= nCi/ 300,000	2.90E+03	1.70E+03
23	300,000 <= nCi/ 400,000	1.70E+03	8.40E+02
24	400,000 <= nCi/ 500,000	6.80E+01	4.50E+01
30	1,000,000 <= nCi/ 2,500,000	2.20E+02	1.50E+02
31	2,500,000 <= nCi/ 5,000,000	1.10E+02	6.70E+01
	Subtotal	6.94E+03	4.12E+03

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	152	ID-MDO-803T	803

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-01	1.19E-06	3.98E+03	7.14E-07	3.98E+03	1.63E-06	5.46E+03	9.79E-07	5.46E+03
PU-238	1.42E+03	1.01E-03	1.54E+07	7.43E+02	1.54E+07	1.69E-03	2.57E+07	1.24E+03	2.57E+07
PU-239	2.71E+03	1.79E-03	1.11E+05	1.49E-03	1.11E+05	2.97E-03	1.84E+05	2.47E-03	1.84E+05
PU-83	6.58E+01	2.63E-04	3.35E+06	1.83E+02	3.35E+06	5.12E-04	6.52E+06	3.56E+02	6.52E+06

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	1.40E+02	9.40E+01
5	3,000 <= nCi/ 4,000	8.40E+01	6.10E+01
12	10,000 <= nCi/ 20,000	1.20E+02	9.70E+01
13	20,000 <= nCi/ 30,000	5.50E+01	3.20E+01
22	200,000 <= nCi/ 300,000	1.10E+02	8.40E+01
23	300,000 <= nCi/ 400,000	5.50E+02	3.90E+02
24	400,000 <= nCi/ 500,000	1.10E+03	8.20E+02
25	500,000 <= nCi/ 600,000	7.20E+02	5.20E+02
26	600,000 <= nCi/ 700,000	5.40E+02	3.80E+02
27	700,000 <= nCi/ 800,000	8.50E+02	6.00E+02
28	800,000 <= nCi/ 900,000	2.10E+02	1.40E+02
29	900,000 <= nCi/ 1,000,000	2.90E+02	2.00E+02
30	1,000,000 <= nCi/ 2,500,000	4.40E+03	3.20E+03
31	2,500,000 <= nCi/ 5,000,000	3.20E+03	1.90E+03
32	5,000,000 <= nCi/ 7,500,000	2.30E+02	1.10E+02
	Subtotal	1.26E+04	8.63E+03

Table 4. INEL transuranic mixed and non-mixed radiological alpha activity information.

Waste Category =TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	117	ID-MDO-805T	805

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-238	2.61E+02	1.01E-03	1.54E+07	7.43E+02	1.54E+07	1.73E-03	2.62E+07	1.27E+03	2.62E+07
PU-239	4.35E+02	1.83E-03	1.14E+05	1.52E-03	1.14E+05	3.13E-03	1.94E+05	2.60E-03	1.94E+05

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
13	20,000 <= nCi/ 30,000	1.70E+02	1.00E+02
17	60,000 <= nCi/ 70,000	4.80E+01	2.50E+01
22	200,000 <= nCi/ 300,000	1.40E+02	9.30E+01
23	300,000 <= nCi/ 400,000	3.60E+02	2.50E+02
24	400,000 <= nCi/ 500,000	6.80E+01	4.50E+01
25	500,000 <= nCi/ 600,000	1.30E+02	8.50E+01
26	600,000 <= nCi/ 700,000	1.30E+02	8.40E+01
27	700,000 <= nCi/ 800,000	7.70E+01	5.40E+01
28	800,000 <= nCi/ 900,000	7.70E+01	5.40E+01
29	900,000 <= nCi/ 1,000,000	8.80E+01	6.50E+01
30	1,000,000 <= nCi/ 2,500,000	5.20E+02	3.60E+02
31	2,500,000 <= nCi/ 5,000,000	5.50E+02	3.70E+02
32	5,000,000 <= nCi/ 7,500,000	1.30E+02	6.10E+01
	Subtotal	2.49E+03	1.65E+03

Waste Category =TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	128	ID-MDO-810T	810

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-238	9.58E+01	8.06E-04	1.23E+07	5.92E+02	1.23E+07	1.41E-03	2.15E+07	1.04E+03	2.15E+07
PU-239	1.90E+02	1.62E-03	1.00E+05	1.34E-03	1.00E+05	2.79E-03	1.73E+05	2.32E-03	1.73E+05

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
23	300,000 <= nCi/ 400,000	3.10E+02	2.10E+02
24	400,000 <= nCi/ 500,000	1.60E+02	1.10E+02
28	800,000 <= nCi/ 900,000	7.70E+01	5.40E+01
30	1,000,000 <= nCi/ 2,500,000	1.80E+02	1.30E+02
31	2,500,000 <= nCi/ 5,000,000	2.10E+02	1.40E+02
32	5,000,000 <= nCi/ 7,500,000	4.30E+01	2.00E+01
	Subtotal	9.80E+02	6.64E+02

Waste Category =TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	45	ID-MDO-811T	811

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-238	3.90E+01	3.08E-04	4.68E+06	2.26E+02	4.68E+06	4.38E-04	6.65E+06	3.21E+02	6.65E+06
PU-239	8.00E+01	6.53E-04	4.05E+04	5.42E-04	4.05E+04	9.30E-04	5.77E+04	7.71E-04	5.77E+04

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
27	700,000 <= nCi/ 800,000	7.40E+01	5.10E+01
29	900,000 <= nCi/ 1,000,000	7.10E+01	4.80E+01
31	2,500,000 <= nCi/ 5,000,000	1.60E+02	1.10E+02
	Subtotal	3.05E+02	2.09E+02

Waste Category =TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	118	ID-MDO-813T	813

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-238	2.85E+01	3.43E-04	5.22E+06	2.52E+02	5.22E+06	7.29E-04	1.11E+07	5.35E+02	1.11E+07
PU-239	7.00E+01	8.43E-04	5.23E+04	6.99E-04	5.23E+04	1.76E-03	1.09E+05	1.46E-03	1.09E+05

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
25	500,000 <= nCi/ 600,000	8.30E+01	6.00E+01
31	2,500,000 <= nCi/ 5,000,000	8.30E+01	3.80E+01
	Subtotal	1.66E+02	9.80E+01

Table 4. INEL transuranic mixed and non-mixed radiological alpha activity information. 9/17/95

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	179	ID-MDO-814T	814

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	1.11E+02	2.06E-03	1.27E+05	1.70E-03	1.27E+05	3.62E-03	2.25E+05	3.00E-03	2.25E+05
PU-240	7.00E+01	1.28E-03	2.90E+05	1.32E-01	2.90E+05	2.24E-03	5.07E+05	2.30E-01	5.07E+05

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
19	80,000 <= nCi/ 90,000	7.20E+01	4.90E+01
23	300,000 <= nCi/ 400,000	5.00E+01	2.70E+01
	Subtotal	1.22E+02	7.60E+01

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	321	ID-MDO-815T	815

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-238	8.00E-01	1.75E-05	2.66E+05	1.28E+01	2.66E+05	3.48E-05	5.29E+05	2.55E+01	5.29E+05

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
13	20,000 <= nCi/ 30,000	5.20E+01	2.90E+01
22	200,000 <= nCi/ 300,000	4.50E+01	2.20E+01
	Subtotal	9.70E+01	5.10E+01

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	168	ID-MDO-824T	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-238	9.51E+02	4.35E-04	6.62E+06	3.20E+02	6.62E+06	1.07E-03	1.62E+07	7.83E+02	1.62E+07
PU-239	1.28E+03	5.47E-04	3.39E+04	4.53E-04	3.39E+04	1.44E-03	8.95E+04	1.20E-03	8.95E+04
PU-83	9.09E+00	5.00E-06	6.36E+04	3.47E+00	6.36E+04	6.90E-06	8.77E+04	4.79E+00	8.77E+04

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
2	500 <= nCi/ 1,000	2.40E+04	2.20E+04
3	1,000 <= nCi/ 2,000	8.80E+04	7.80E+04
4	2,000 <= nCi/ 3,000	2.90E+04	2.70E+04
5	3,000 <= nCi/ 4,000	2.50E+04	2.30E+04
6	4,000 <= nCi/ 5,000	2.20E+04	2.10E+04
7	5,000 <= nCi/ 6,000	8.00E+03	7.40E+03
8	6,000 <= nCi/ 7,000	1.40E+04	1.30E+04
9	7,000 <= nCi/ 8,000	2.40E+04	2.00E+04
10	8,000 <= nCi/ 9,000	1.40E+04	1.30E+04
11	9,000 <= nCi/ 10,000	8.40E+03	7.60E+03
12	10,000 <= nCi/ 20,000	5.60E+04	4.50E+04
13	20,000 <= nCi/ 30,000	1.30E+04	1.20E+04
14	30,000 <= nCi/ 40,000	1.80E+04	1.70E+04
15	40,000 <= nCi/ 50,000	1.20E+04	1.10E+04
16	50,000 <= nCi/ 60,000	4.10E+03	3.50E+03
17	60,000 <= nCi/ 70,000	1.10E+03	1.10E+03
18	70,000 <= nCi/ 80,000	5.40E+02	2.60E+02
19	80,000 <= nCi/ 90,000	4.60E+02	1.80E+02
20	90,000 <= nCi/ 100,000	3.40E+03	3.10E+03
21	100,000 <= nCi/ 200,000	5.70E+03	4.80E+03
22	200,000 <= nCi/ 300,000	3.80E+03	3.20E+03
23	300,000 <= nCi/ 400,000	3.70E+03	2.00E+03
24	400,000 <= nCi/ 500,000	4.60E+03	3.10E+03
25	500,000 <= nCi/ 600,000	5.70E+03	1.80E+03
26	600,000 <= nCi/ 700,000	5.90E+02	3.10E+02
27	700,000 <= nCi/ 800,000	4.30E+02	1.50E+02
28	800,000 <= nCi/ 900,000	7.10E+02	4.20E+02
29	900,000 <= nCi/ 1,000,000	5.80E+02	3.00E+02
30	1,000,000 <= nCi/ 2,500,000	7.30E+02	1.70E+02
	Subtotal	3.92E+05	3.41E+05

Table 4. INEL transuranic mixed and non-mixed radiological alpha activity information.

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	88	ID-MDO-826T	826

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	4.18E+00	5.97E-06	2.00E+04	3.58E-06	2.00E+04	9.19E-06	3.07E+04	5.51E-06	3.07E+04
PU-238	3.80E+00	1.05E-05	1.59E+05	7.69E+00	1.59E+05	1.30E-05	1.98E+05	9.57E+00	1.98E+05
PU-239	3.00E+01	2.93E-06	1.82E+02	2.43E-06	1.82E+02	2.93E-06	1.82E+02	2.43E-06	1.82E+02
PU-240	4.00E+00	1.96E-06	4.44E+02	2.02E-04	4.44E+02	1.96E-06	4.44E+02	2.02E-04	4.44E+02
PU-83	8.12E-01	1.18E-07	1.49E+03	8.17E-02	1.49E+03	1.53E-07	1.95E+03	1.07E-01	1.95E+03

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
2	500 <= nCi/ 1,000	3.80E+03	3.80E+03
3	1,000 <= nCi/ 2,000	1.70E+04	1.60E+04
4	2,000 <= nCi/ 3,000	2.40E+03	2.40E+03
5	3,000 <= nCi/ 4,000	5.00E+02	5.00E+02
11	9,000 <= nCi/ 10,000	1.30E+03	1.30E+03
12	10,000 <= nCi/ 20,000	1.40E+03	1.10E+03
13	20,000 <= nCi/ 30,000	1.90E+02	1.40E+02
21	100,000 <= nCi/ 200,000	1.00E+02	7.70E+01
	Subtotal	2.67E+04	2.53E+04

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	89	ID-MDO-827T	827

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	3.66E+00	1.85E-05	6.19E+04	1.11E-05	6.19E+04	2.65E-05	8.86E+04	1.59E-05	8.86E+04
PU-52	2.64E-01	1.85E-06	1.47E+02	7.74E-03	1.47E+02	3.21E-06	2.56E+02	1.35E-02	2.56E+02
PU-83	1.05E+00	1.66E-05	2.11E+05	1.15E+01	2.11E+05	3.31E-05	4.21E+05	2.30E+01	4.21E+05

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	1.40E+02	8.20E+01
10	8,000 <= nCi/ 9,000	7.30E+01	4.30E+01
13	20,000 <= nCi/ 30,000	5.30E+01	2.30E+01
16	50,000 <= nCi/ 60,000	2.20E+02	1.60E+02
19	80,000 <= nCi/ 90,000	5.50E+01	2.50E+01
21	100,000 <= nCi/ 200,000	7.30E+01	4.30E+01
	Subtotal	6.14E+02	3.76E+02

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	67	ID-MDO-834T	834

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-238	9.97E+01	2.33E-05	3.54E+05	1.71E+01	3.54E+05	2.80E-05	4.25E+05	2.05E+01	4.25E+05
PU-239	1.84E+01	1.53E-06	9.50E+01	1.27E-06	9.50E+01	1.83E-06	1.13E+02	1.51E-06	1.13E+02
PU-240	1.00E+01	8.20E-05	1.86E+04	8.44E-03	1.86E+04	1.01E-04	2.28E+04	1.04E-02	2.28E+04

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	6.30E+03	6.20E+03
9	7,000 <= nCi/ 8,000	1.90E+02	1.70E+02
10	8,000 <= nCi/ 9,000	3.40E+02	3.00E+02
11	9,000 <= nCi/ 10,000	1.10E+04	9.30E+03
12	10,000 <= nCi/ 20,000	6.70E+04	5.60E+04
13	20,000 <= nCi/ 30,000	1.20E+04	1.00E+04
14	30,000 <= nCi/ 40,000	6.00E+03	5.00E+03
15	40,000 <= nCi/ 50,000	1.20E+03	9.80E+02
16	50,000 <= nCi/ 60,000	1.40E+02	1.20E+02
21	100,000 <= nCi/ 200,000	6.30E+02	5.10E+02
	Subtotal	1.05E+05	8.86E+04

Table 4. INEL transuranic mixed and non-mixed radiological alpha activity information.

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	68	ID-MDO-835T	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-238	1.49E+02	1.08E-04	1.65E+06	7.95E+01	1.65E+06	1.29E-04	1.96E+06	9.47E+01	1.96E+06
PU-239	1.20E+01	7.59E-05	4.70E+03	6.29E-05	4.70E+03	8.99E-05	5.58E+03	7.45E-05	5.58E+03
PU-52	1.32E-01	1.32E-06	1.05E+02	5.54E-03	1.05E+02	1.90E-06	1.51E+02	7.95E-03	1.51E+02
PU-83	6.40E-01	6.35E-06	8.07E+04	4.41E+00	8.07E+04	9.09E-06	1.16E+05	6.32E+00	1.16E+05

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	1.00E+02	7.00E+01
5	3,000 <= nCi/ 4,000	1.20E+02	9.00E+01
11	9,000 <= nCi/ 10,000	1.50E+03	1.30E+03
12	10,000 <= nCi/ 20,000	6.80E+04	5.70E+04
13	20,000 <= nCi/ 30,000	3.90E+04	3.30E+04
14	30,000 <= nCi/ 40,000	4.90E+03	4.10E+03
15	40,000 <= nCi/ 50,000	4.80E+03	4.00E+03
16	50,000 <= nCi/ 60,000	1.50E+02	1.20E+02
17	60,000 <= nCi/ 70,000	2.90E+02	2.40E+02
18	70,000 <= nCi/ 80,000	1.00E+02	7.00E+01
19	80,000 <= nCi/ 90,000	5.60E+02	4.70E+02
20	90,000 <= nCi/ 100,000	1.50E+02	1.20E+02
21	100,000 <= nCi/ 200,000	2.90E+02	2.40E+02
22	200,000 <= nCi/ 300,000	1.30E+02	1.00E+02
23	300,000 <= nCi/ 400,000	1.50E+02	1.20E+02
25	500,000 <= nCi/ 600,000	2.90E+02	2.40E+02
	Subtotal	1.21E+05	1.01E+05

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	69	ID-MDO-836T	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-238	1.59E+01	3.89E-05	5.92E+05	2.86E+01	5.92E+05	4.32E-05	6.56E+05	3.17E+01	6.56E+05
PU-83	5.57E-01	1.13E-08	1.44E+02	7.85E-03	1.44E+02	1.27E-08	1.61E+02	8.80E-03	1.61E+02

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	4.90E+04	4.40E+04
7	5,000 <= nCi/ 6,000	5.60E+02	5.10E+02
12	10,000 <= nCi/ 20,000	1.80E+03	1.60E+03
13	20,000 <= nCi/ 30,000	1.80E+03	1.60E+03
14	30,000 <= nCi/ 40,000	1.00E+03	9.30E+02
15	40,000 <= nCi/ 50,000	1.50E+02	1.30E+02
18	70,000 <= nCi/ 80,000	3.10E+02	2.70E+02
23	300,000 <= nCi/ 400,000	2.70E+02	2.50E+02
	Subtotal	5.49E+04	4.93E+04

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	198	ID-MDO-842T	842

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-238	1.20E+00	1.01E-07	1.54E+03	7.42E-02	1.54E+03	1.18E-07	1.79E+03	8.65E-02	1.79E+03
PU-239	2.00E+01	4.98E-06	3.09E+02	4.12E-06	3.09E+02	5.79E-06	3.59E+02	4.80E-06	3.59E+02
PU-83	4.37E-01	4.91E-08	6.24E+02	3.41E-02	6.24E+02	4.91E-08	6.24E+02	3.41E-02	6.24E+02

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
2	500 <= nCi/ 1,000	2.80E+04	2.60E+04
3	1,000 <= nCi/ 2,000	4.00E+03	3.50E+03
	Subtotal	3.20E+04	2.95E+04

Table 4. INEL transuranic mixed and non-mixed radiological alpha activity information.

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	322	ID-MDO-847T	847

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-238	6.00E+00	2.98E-05	4.54E+05	2.19E+01	4.54E+05	3.74E-05	5.68E+05	2.74E+01	5.68E+05

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
11	9,000 <= nCi/ 10,000	3.20E+02	2.80E+02
12	10,000 <= nCi/ 20,000	6.20E+02	5.30E+02
13	20,000 <= nCi/ 30,000	3.50E+02	2.80E+02
14	30,000 <= nCi/ 40,000	2.40E+02	1.90E+02
15	40,000 <= nCi/ 50,000	3.60E+02	2.70E+02
16	50,000 <= nCi/ 60,000	2.20E+02	1.80E+02
17	60,000 <= nCi/ 70,000	1.50E+02	1.20E+02
19	80,000 <= nCi/ 90,000	1.60E+02	1.40E+02
21	100,000 <= nCi/ 200,000	9.00E+01	6.70E+01
	Subtotal	2.51E+03	2.06E+03

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	323	ID-MDO-848T	848

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-238	8.30E+00	8.63E-05	1.31E+06	6.34E+01	1.31E+06	1.15E-04	1.76E+06	8.47E+01	1.76E+06
PU-239	1.00E+00	1.09E-05	6.74E+02	9.01E-06	6.74E+02	1.44E-05	8.95E+02	1.20E-05	8.95E+02

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
13	20,000 <= nCi/ 30,000	1.00E+02	8.00E+01
17	60,000 <= nCi/ 70,000	1.60E+02	1.10E+02
21	100,000 <= nCi/ 200,000	6.90E+01	4.60E+01
22	200,000 <= nCi/ 300,000	1.10E+02	8.70E+01
28	800,000 <= nCi/ 900,000	9.20E+01	6.90E+01
	Subtotal	5.31E+02	3.92E+02

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	39	ID-OFS-111T	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	1.46E+03	8.34E-05	2.79E+05	5.00E-05	2.79E+05	9.91E-05	3.31E+05	5.94E-05	3.31E+05
PU-239	6.05E+02	5.30E-03	3.29E+05	4.40E-03	3.29E+05	7.85E-03	4.87E+05	6.50E-03	4.87E+05
PU-240	2.23E+01	1.86E-04	4.21E+04	1.91E-02	4.21E+04	2.99E-04	6.77E+04	3.08E-02	6.77E+04
PU-241	4.30E-02	6.52E-07	1.13E+03	7.86E-01	1.13E+03	9.93E-07	1.73E+03	1.20E+00	1.73E+03
PU-52	8.55E+03	1.32E-03	1.05E+05	5.53E+00	1.05E+05	1.61E-03	1.29E+05	6.76E+00	1.29E+05
U-233	3.60E+01	5.46E-04	0.00E+00	5.28E+03	5.28E+03	8.31E-04	0.00E+00	8.04E+03	8.04E+03
U-235	1.46E+01	9.02E-06	0.00E+00	1.73E-02	1.73E-02	1.06E-05	0.00E+00	2.03E-02	2.03E-02

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	1.60E+05	1.30E+05
2	500 <= nCi/ 1,000	2.90E+05	2.50E+05
3	1,000 <= nCi/ 2,000	2.20E+04	1.90E+04
4	2,000 <= nCi/ 3,000	1.80E+04	1.50E+04
5	3,000 <= nCi/ 4,000	1.60E+04	1.40E+04
6	4,000 <= nCi/ 5,000	1.70E+04	1.50E+04
7	5,000 <= nCi/ 6,000	1.20E+04	1.00E+04
8	6,000 <= nCi/ 7,000	1.80E+04	1.50E+04
9	7,000 <= nCi/ 8,000	1.70E+04	1.50E+04
10	8,000 <= nCi/ 9,000	1.60E+04	1.30E+04
11	9,000 <= nCi/ 10,000	1.20E+04	9.90E+03
12	10,000 <= nCi/ 20,000	9.90E+04	8.40E+04
13	20,000 <= nCi/ 30,000	5.80E+04	4.90E+04
14	30,000 <= nCi/ 40,000	2.30E+04	1.90E+04
15	40,000 <= nCi/ 50,000	1.50E+04	1.20E+04
16	50,000 <= nCi/ 60,000	4.30E+03	3.60E+03
17	60,000 <= nCi/ 70,000	8.40E+02	7.30E+02
19	80,000 <= nCi/ 90,000	1.60E+02	1.30E+02
21	100,000 <= nCi/ 200,000	7.30E+01	5.00E+01
22	200,000 <= nCi/ 300,000	1.20E+02	7.50E+01
	Subtotal	7.98E+05	6.74E+05

Table 4. INEL transuranic mixed and non-mixed radiological alpha activity information.

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	38	ID-RFO-001T	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)
AM-241	1.93E+04	6.61E-04	2.21E+06	3.96E-04	2.21E+06	7.76E-04	2.60E+06	4.65E-04	2.60E+06
PU-52	5.05E+04	6.04E-04	4.81E+04	2.53E+00	4.81E+04	7.00E-04	5.59E+04	2.94E+00	5.59E+04

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	3.30E+04	3.00E+04
2	500 <= nCi/ 1,000	2.20E+04	1.90E+04
3	1,000 <= nCi/ 2,000	5.20E+04	4.70E+04
4	2,000 <= nCi/ 3,000	5.10E+04	4.50E+04
5	3,000 <= nCi/ 4,000	6.10E+04	5.40E+04
6	4,000 <= nCi/ 5,000	4.70E+04	4.20E+04
7	5,000 <= nCi/ 6,000	5.40E+04	4.80E+04
8	6,000 <= nCi/ 7,000	5.10E+04	4.50E+04
9	7,000 <= nCi/ 8,000	6.00E+04	5.40E+04
10	8,000 <= nCi/ 9,000	6.30E+04	5.70E+04
11	9,000 <= nCi/ 10,000	5.70E+04	5.10E+04
12	10,000 <= nCi/ 20,000	7.50E+05	6.70E+05
13	20,000 <= nCi/ 30,000	6.00E+05	5.40E+05
14	30,000 <= nCi/ 40,000	3.00E+05	2.70E+05
15	40,000 <= nCi/ 50,000	1.70E+05	1.60E+05
16	50,000 <= nCi/ 60,000	9.60E+04	8.50E+04
17	60,000 <= nCi/ 70,000	5.30E+04	4.70E+04
18	70,000 <= nCi/ 80,000	3.00E+04	2.60E+04
19	80,000 <= nCi/ 90,000	1.70E+04	1.40E+04
20	90,000 <= nCi/ 100,000	1.10E+04	9.10E+03
21	100,000 <= nCi/ 200,000	4.10E+04	3.30E+04
22	200,000 <= nCi/ 300,000	3.90E+03	3.20E+03
23	300,000 <= nCi/ 400,000	3.20E+03	2.70E+03
24	400,000 <= nCi/ 500,000	6.40E+02	5.40E+02
25	500,000 <= nCi/ 600,000	6.30E+02	5.40E+02
	Subtotal	2.63E+06	2.35E+06

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	41	ID-RFO-002T	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)
AM-241	8.67E+01	1.26E-05	4.23E+04	7.58E-06	4.23E+04	1.44E-05	4.82E+04	8.64E-06	4.82E+04
PU-52	1.26E+03	1.21E-05	9.65E+02	5.07E-02	9.65E+02	1.37E-05	1.09E+03	5.75E-02	1.09E+03

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	6.90E+05	6.20E+05
3	1,000 <= nCi/ 2,000	1.80E+05	1.60E+05
4	2,000 <= nCi/ 3,000	5.50E+02	4.80E+02
12	10,000 <= nCi/ 20,000	1.40E+03	1.20E+03
13	20,000 <= nCi/ 30,000	1.80E+02	1.60E+02
	Subtotal	8.72E+05	7.82E+05

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	236	ID-RFO-003T	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)
AM-241	7.89E+00	1.82E-05	6.08E+04	1.09E-05	6.08E+04	2.05E-05	6.85E+04	1.23E-05	6.85E+04
PU-52	3.73E+03	3.31E-04	2.64E+04	1.39E+00	2.64E+04	3.76E-04	3.00E+04	1.58E+00	3.00E+04

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	4.20E+05	3.80E+05
2	500 <= nCi/ 1,000	8.10E+04	7.20E+04
3	1,000 <= nCi/ 2,000	3.90E+04	3.40E+04
4	2,000 <= nCi/ 3,000	2.50E+04	2.20E+04
5	3,000 <= nCi/ 4,000	6.20E+03	5.50E+03
6	4,000 <= nCi/ 5,000	1.20E+03	1.00E+03
7	5,000 <= nCi/ 6,000	4.20E+02	3.70E+02
8	6,000 <= nCi/ 7,000	3.80E+02	3.30E+02
12	10,000 <= nCi/ 20,000	1.20E+03	1.10E+03
13	20,000 <= nCi/ 30,000	2.00E+02	1.80E+02
14	30,000 <= nCi/ 40,000	1.90E+02	1.70E+02
	Subtotal	5.75E+05	5.17E+05

Table 4. INEL transuranic mixed and non-mixed radiological alpha activity information.

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	65	ID-RFO-004T	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)
AM-241	9.19E+00	1.10E-05	3.69E+04	6.62E-06	3.69E+04	1.20E-05	4.02E+04	7.20E-06	4.02E+04
PU-52	3.24E+03	3.84E-03	3.07E+05	1.61E+01	3.07E+05	4.71E-03	3.76E+05	1.98E+01	3.76E+05

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	1.30E+05	1.20E+05
2	500 <= nCi/ 1,000	6.80E+04	6.20E+04
3	1,000 <= nCi/ 2,000	4.60E+04	4.20E+04
4	2,000 <= nCi/ 3,000	1.10E+04	9.80E+03
5	3,000 <= nCi/ 4,000	1.00E+03	9.10E+02
6	4,000 <= nCi/ 5,000	7.80E+02	7.00E+02
7	5,000 <= nCi/ 6,000	3.20E+02	2.70E+02
8	6,000 <= nCi/ 7,000	2.60E+02	2.30E+02
12	10,000 <= nCi/ 20,000	1.60E+03	1.50E+03
13	20,000 <= nCi/ 30,000	3.30E+02	2.90E+02
17	60,000 <= nCi/ 70,000	7.40E+02	6.50E+02
18	70,000 <= nCi/ 80,000	1.70E+02	1.50E+02
21	100,000 <= nCi/ 200,000	9.20E+01	6.90E+01
	Subtotal	2.60E+05	2.39E+05

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	227	ID-RFO-005T	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)
AM-241	7.20E+00	1.09E-05	3.63E+04	6.51E-06	3.63E+04	1.21E-05	4.05E+04	7.26E-06	4.05E+04
PU-52	5.40E+00	8.14E-06	6.50E+02	3.42E-02	6.50E+02	9.07E-06	7.24E+02	3.81E-02	7.24E+02

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
14	30,000 <= nCi/ 40,000	6.60E+02	6.00E+02
	Subtotal	6.60E+02	6.00E+02

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	44	ID-RFO-007T	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	1.61E+02	2.68E-05	8.97E+04	1.61E-05	8.97E+04	3.07E-05	1.03E+05	1.84E-05	1.03E+05
PU-52	1.92E+03	4.87E-04	3.88E+04	2.04E+00	3.88E+04	5.92E-04	4.72E+04	2.48E+00	4.72E+04

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	1.80E+05	1.60E+05
2	500 <= nCi/ 1,000	4.70E+05	4.20E+05
3	1,000 <= nCi/ 2,000	4.80E+04	4.30E+04
4	2,000 <= nCi/ 3,000	2.10E+04	1.90E+04
5	3,000 <= nCi/ 4,000	1.90E+03	1.70E+03
6	4,000 <= nCi/ 5,000	1.60E+04	1.50E+04
7	5,000 <= nCi/ 6,000	1.20E+04	1.10E+04
8	6,000 <= nCi/ 7,000	1.20E+03	1.10E+03
11	9,000 <= nCi/ 10,000	2.60E+02	2.40E+02
12	10,000 <= nCi/ 20,000	3.50E+03	3.10E+03
14	30,000 <= nCi/ 40,000	1.20E+02	9.70E+01
15	40,000 <= nCi/ 50,000	1.50E+02	1.30E+02
	Subtotal	7.54E+05	6.74E+05

Table 4. INEL transuranic mixed and non-mixed radiological alpha activity information.

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	63	ID-RFO-112T	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)
AM-241	2.00E+00	5.26E-06	1.76E+04	3.16E-06	1.76E+04	6.27E-06	2.10E+04	3.76E-06	2.10E+04
PU-52	2.40E+03	1.01E-03	8.03E+04	4.22E+00	8.03E+04	1.15E-03	9.18E+04	4.83E+00	9.18E+04

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	5.80E+04	5.10E+04
2	500 <= nCi/ 1,000	8.90E+04	7.90E+04
3	1,000 <= nCi/ 2,000	4.10E+04	3.60E+04
4	2,000 <= nCi/ 3,000	2.20E+02	1.90E+02
5	3,000 <= nCi/ 4,000	2.40E+02	2.10E+02
6	4,000 <= nCi/ 5,000	2.40E+02	2.10E+02
7	5,000 <= nCi/ 6,000	2.60E+02	2.30E+02
9	7,000 <= nCi/ 8,000	2.60E+02	2.30E+02
10	8,000 <= nCi/ 9,000	2.30E+02	2.00E+02
11	9,000 <= nCi/ 10,000	5.00E+02	4.40E+02
12	10,000 <= nCi/ 20,000	2.00E+03	1.70E+03
13	20,000 <= nCi/ 30,000	7.50E+02	6.60E+02
	Subtotal	1.93E+05	1.70E+05

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	40	ID-RFO-113T	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	4.36E+02	2.38E-04	1.90E+04	9.97E-01	1.90E+04	2.65E-04	2.12E+04	1.11E+00	2.12E+04
U-235	7.40E+01	2.74E-04	0.00E+00	5.27E-01	5.27E-01	3.09E-04	0.00E+00	5.94E-01	5.94E-01

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	1.40E+03	1.20E+03
2	500 <= nCi/ 1,000	3.40E+03	3.10E+03
3	1,000 <= nCi/ 2,000	8.20E+03	7.40E+03
4	2,000 <= nCi/ 3,000	4.80E+03	4.30E+03
5	3,000 <= nCi/ 4,000	1.20E+03	1.10E+03
6	4,000 <= nCi/ 5,000	3.00E+02	2.70E+02
7	5,000 <= nCi/ 6,000	2.80E+02	2.50E+02
	Subtotal	1.96E+04	1.76E+04

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	64	ID-RFO-114T	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)
AM-241	5.63E-01	1.05E-06	3.53E+03	6.33E-07	3.53E+03	1.26E-06	4.22E+03	7.57E-07	4.22E+03
PU-52	4.82E+03	5.90E-03	4.71E+05	2.48E+01	4.71E+05	7.60E-03	6.06E+05	3.19E+01	6.06E+05

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	2.30E+04	1.90E+04
2	500 <= nCi/ 1,000	3.50E+03	2.90E+03
3	1,000 <= nCi/ 2,000	3.60E+03	2.90E+03
4	2,000 <= nCi/ 3,000	5.50E+03	4.50E+03
5	3,000 <= nCi/ 4,000	3.20E+03	2.60E+03
6	4,000 <= nCi/ 5,000	4.00E+03	3.30E+03
7	5,000 <= nCi/ 6,000	1.90E+03	1.60E+03
8	6,000 <= nCi/ 7,000	1.90E+03	1.50E+03
9	7,000 <= nCi/ 8,000	1.20E+03	9.70E+02
10	8,000 <= nCi/ 9,000	1.30E+03	1.10E+03
11	9,000 <= nCi/ 10,000	6.00E+02	4.80E+02
12	10,000 <= nCi/ 20,000	3.60E+03	2.90E+03
13	20,000 <= nCi/ 30,000	3.20E+03	2.70E+03
14	30,000 <= nCi/ 40,000	9.40E+02	7.60E+02
15	40,000 <= nCi/ 50,000	2.30E+02	1.70E+02
16	50,000 <= nCi/ 60,000	5.10E+02	4.20E+02
17	60,000 <= nCi/ 70,000	6.40E+02	5.10E+02
18	70,000 <= nCi/ 80,000	1.70E+02	1.40E+02
21	100,000 <= nCi/ 200,000	2.00E+02	1.40E+02
	Subtotal	5.92E+04	4.86E+04

Waste Category =TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	82	ID-RFO-116T	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)
AM-241	5.22E+01	5.17E-05	1.73E+05	3.10E-05	1.73E+05	7.66E-05	2.56E+05	4.59E-05	2.56E+05
PU-52	2.84E+04	2.48E-03	1.98E+05	1.04E+01	1.98E+05	3.50E-03	2.80E+05	1.47E+01	2.80E+05
U-235	8.09E+02	1.14E-04	0.00E+00	2.18E-01	2.18E-01	1.62E-04	0.00E+00	3.11E-01	3.11E-01

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	4.40E+04	3.10E+04
2	500 <= nCi/ 1,000	7.20E+04	5.10E+04
3	1,000 <= nCi/ 2,000	1.20E+05	8.60E+04
4	2,000 <= nCi/ 3,000	8.90E+04	6.30E+04
5	3,000 <= nCi/ 4,000	7.90E+04	5.50E+04
6	4,000 <= nCi/ 5,000	5.20E+04	3.70E+04
7	5,000 <= nCi/ 6,000	3.70E+04	2.60E+04
8	6,000 <= nCi/ 7,000	2.70E+04	1.90E+04
9	7,000 <= nCi/ 8,000	1.90E+04	1.30E+04
10	8,000 <= nCi/ 9,000	2.10E+04	1.40E+04
11	9,000 <= nCi/ 10,000	1.40E+04	9.70E+03
12	10,000 <= nCi/ 20,000	3.70E+04	2.50E+04
13	20,000 <= nCi/ 30,000	3.70E+03	2.60E+03
14	30,000 <= nCi/ 40,000	7.90E+02	5.40E+02
15	40,000 <= nCi/ 50,000	7.80E+01	4.80E+01
16	50,000 <= nCi/ 60,000	7.20E+02	5.00E+02
20	90,000 <= nCi/ 100,000	1.10E+02	8.00E+01
	Subtotal	6.16E+05	4.33E+05

Waste Category =TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	147	ID-RFO-117T	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)
AM-241	5.36E+01	5.10E-05	1.71E+05	3.06E-05	1.71E+05	7.65E-05	2.56E+05	4.59E-05	2.56E+05
PU-52	4.56E+04	9.56E-03	7.62E+05	4.01E+01	7.62E+05	1.50E-02	1.20E+06	6.28E+01	1.20E+06
U-235	2.50E+02	5.59E-05	0.00E+00	1.07E-01	1.07E-01	6.67E-05	0.00E+00	1.28E-01	1.28E-01
U-238	2.00E+00	1.82E-06	0.00E+00	6.11E-04	6.11E-04	2.27E-06	0.00E+00	7.62E-04	7.62E-04

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	1.00E+05	8.60E+04
2	500 <= nCi/ 1,000	6.30E+04	5.20E+04
3	1,000 <= nCi/ 2,000	7.40E+04	6.10E+04
4	2,000 <= nCi/ 3,000	4.20E+04	3.50E+04
5	3,000 <= nCi/ 4,000	4.30E+04	3.60E+04
6	4,000 <= nCi/ 5,000	4.00E+04	3.40E+04
7	5,000 <= nCi/ 6,000	3.00E+04	2.50E+04
8	6,000 <= nCi/ 7,000	2.40E+04	2.00E+04
9	7,000 <= nCi/ 8,000	2.00E+04	1.70E+04
10	8,000 <= nCi/ 9,000	3.70E+04	3.10E+04
11	9,000 <= nCi/ 10,000	7.20E+03	6.10E+03
12	10,000 <= nCi/ 20,000	1.20E+05	9.80E+04
13	20,000 <= nCi/ 30,000	1.50E+04	1.20E+04
14	30,000 <= nCi/ 40,000	2.50E+03	2.00E+03
15	40,000 <= nCi/ 50,000	5.50E+02	3.60E+02
16	50,000 <= nCi/ 60,000	3.00E+02	1.70E+02
17	60,000 <= nCi/ 70,000	4.20E+02	2.70E+02
18	70,000 <= nCi/ 80,000	1.70E+02	1.10E+02
19	80,000 <= nCi/ 90,000	1.50E+02	8.40E+01
20	90,000 <= nCi/ 100,000	7.80E+01	4.80E+01
21	100,000 <= nCi/ 200,000	1.50E+03	9.20E+02
22	200,000 <= nCi/ 300,000	8.20E+01	5.20E+01
	Subtotal	6.21E+05	5.17E+05

Table 4. INEL transuranic mixed and non-mixed radiological alpha activity information.

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	124	ID-RFO-118T	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)
AM-241	1.82E+01	5.86E-05	1.96E+05	3.51E-05	1.96E+05	8.58E-05	2.87E+05	5.15E-05	2.87E+05
PU-52	7.31E+03	6.87E-03	5.48E+05	2.88E+01	5.48E+05	9.45E-03	7.54E+05	3.96E+01	7.54E+05
U-235	3.10E+01	1.94E-05	0.00E+00	3.74E-02	3.74E-02	2.56E-05	0.00E+00	4.92E-02	4.92E-02

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	1.60E+03	1.40E+03
2	500 <= nCi/ 1,000	2.50E+03	2.10E+03
3	1,000 <= nCi/ 2,000	6.00E+03	4.70E+03
4	2,000 <= nCi/ 3,000	1.30E+04	1.00E+04
5	3,000 <= nCi/ 4,000	3.40E+03	2.70E+03
6	4,000 <= nCi/ 5,000	4.70E+03	3.80E+03
7	5,000 <= nCi/ 6,000	6.20E+03	5.10E+03
8	6,000 <= nCi/ 7,000	3.80E+03	3.10E+03
9	7,000 <= nCi/ 8,000	2.60E+03	2.10E+03
10	8,000 <= nCi/ 9,000	4.60E+03	3.70E+03
11	9,000 <= nCi/ 10,000	2.10E+03	1.70E+03
12	10,000 <= nCi/ 20,000	1.10E+04	9.50E+03
13	20,000 <= nCi/ 30,000	3.60E+03	2.90E+03
14	30,000 <= nCi/ 40,000	1.10E+03	7.90E+02
15	40,000 <= nCi/ 50,000	2.60E+02	2.00E+02
16	50,000 <= nCi/ 60,000	9.40E+02	7.60E+02
17	60,000 <= nCi/ 70,000	4.60E+02	3.70E+02
18	70,000 <= nCi/ 80,000	1.90E+02	1.60E+02
20	90,000 <= nCi/ 100,000	9.50E+01	6.50E+01
22	200,000 <= nCi/ 300,000	8.20E+01	5.20E+01
	Subtotal	6.82E+04	5.52E+04

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	110	ID-RFO-119T	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)
AM-241	4.42E+00	3.65E-05	1.22E+05	2.19E-05	1.22E+05	8.29E-05	2.77E+05	4.97E-05	2.77E+05
PU-52	9.77E+03	8.08E-03	6.45E+05	3.39E+01	6.45E+05	1.46E-02	1.16E+06	6.12E+01	1.16E+06
U-235	3.10E+01	4.16E-04	0.00E+00	8.00E-01	8.00E-01	7.96E-04	0.00E+00	1.53E+00	1.53E+00

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	1.90E+04	1.40E+04
2	500 <= nCi/ 1,000	2.10E+04	1.60E+04
3	1,000 <= nCi/ 2,000	2.00E+04	1.50E+04
4	2,000 <= nCi/ 3,000	6.60E+03	5.00E+03
5	3,000 <= nCi/ 4,000	3.70E+03	2.50E+03
6	4,000 <= nCi/ 5,000	4.40E+03	3.30E+03
7	5,000 <= nCi/ 6,000	3.90E+03	2.90E+03
8	6,000 <= nCi/ 7,000	1.40E+03	1.00E+03
9	7,000 <= nCi/ 8,000	2.60E+02	1.60E+02
10	8,000 <= nCi/ 9,000	2.60E+02	1.60E+02
11	9,000 <= nCi/ 10,000	9.90E+02	7.10E+02
12	10,000 <= nCi/ 20,000	5.30E+03	3.30E+03
13	20,000 <= nCi/ 30,000	5.10E+03	2.90E+03
14	30,000 <= nCi/ 40,000	1.80E+03	9.80E+02
15	40,000 <= nCi/ 50,000	1.80E+03	8.40E+02
16	50,000 <= nCi/ 60,000	9.80E+02	5.50E+02
17	60,000 <= nCi/ 70,000	6.60E+02	3.60E+02
18	70,000 <= nCi/ 80,000	4.30E+02	2.50E+02
19	80,000 <= nCi/ 90,000	5.00E+02	2.50E+02
20	90,000 <= nCi/ 100,000	4.50E+02	2.40E+02
21	100,000 <= nCi/ 200,000	7.70E+02	4.30E+02
	Subtotal	9.93E+04	7.08E+04

Table 4. INEL transuranic mixed and non-mixed radiological alpha activity information.

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	97	ID-RFO-122T	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)
AM-241	2.70E-02	2.33E-07	7.81E+02	1.40E-07	7.81E+02	3.86E-07	1.29E+03	2.32E-07	1.29E+03
PU-52	2.64E+03	7.86E-03	6.27E+05	3.30E+01	6.27E+05	1.18E-02	9.40E+05	4.94E+01	9.40E+05
U-235	6.60E+01	4.23E-04	0.00E+00	8.14E-01	8.14E-01	6.37E-04	0.00E+00	1.23E+00	1.23E+00

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	5.20E+03	4.60E+03
2	500 <= nCi/ 1,000	1.40E+03	1.10E+03
3	1,000 <= nCi/ 2,000	1.40E+03	1.00E+03
4	2,000 <= nCi/ 3,000	1.90E+02	1.30E+02
5	3,000 <= nCi/ 4,000	1.10E+02	8.00E+01
6	4,000 <= nCi/ 5,000	8.90E+01	5.90E+01
8	6,000 <= nCi/ 7,000	1.80E+02	1.20E+02
11	9,000 <= nCi/ 10,000	1.80E+02	1.20E+02
12	10,000 <= nCi/ 20,000	7.10E+02	4.70E+02
13	20,000 <= nCi/ 30,000	1.90E+02	1.30E+02
14	30,000 <= nCi/ 40,000	2.80E+02	1.90E+02
15	40,000 <= nCi/ 50,000	5.30E+02	3.50E+02
16	50,000 <= nCi/ 60,000	3.70E+02	2.50E+02
17	60,000 <= nCi/ 70,000	1.00E+02	7.00E+01
18	70,000 <= nCi/ 80,000	3.30E+02	2.00E+02
19	80,000 <= nCi/ 90,000	9.40E+01	6.40E+01
20	90,000 <= nCi/ 100,000	9.10E+01	6.10E+01
21	100,000 <= nCi/ 200,000	7.40E+02	5.00E+02
	Subtotal	1.22E+04	9.49E+03

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	132	ID-RFO-123T	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)
AM-241	1.49E-02	1.49E-07	4.99E+02	8.94E-08	4.99E+02	2.14E-07	7.16E+02	1.28E-07	7.16E+02
PU-52	7.25E+03	5.63E-03	4.49E+05	2.36E+01	4.49E+05	7.48E-03	5.97E+05	3.14E+01	5.97E+05

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
2	500 <= nCi/ 1,000	2.70E+02	1.80E+02
3	1,000 <= nCi/ 2,000	1.60E+03	1.10E+03
4	2,000 <= nCi/ 3,000	1.60E+03	1.20E+03
5	3,000 <= nCi/ 4,000	2.30E+03	1.70E+03
6	4,000 <= nCi/ 5,000	2.00E+03	1.50E+03
7	5,000 <= nCi/ 6,000	1.70E+03	1.30E+03
8	6,000 <= nCi/ 7,000	1.20E+03	9.70E+02
9	7,000 <= nCi/ 8,000	2.90E+03	2.20E+03
10	8,000 <= nCi/ 9,000	1.10E+03	8.40E+02
11	9,000 <= nCi/ 10,000	1.30E+03	9.90E+02
12	10,000 <= nCi/ 20,000	1.00E+04	7.80E+03
13	20,000 <= nCi/ 30,000	6.30E+03	4.80E+03
14	30,000 <= nCi/ 40,000	2.20E+03	1.70E+03
15	40,000 <= nCi/ 50,000	7.60E+02	5.80E+02
16	50,000 <= nCi/ 60,000	8.80E+02	6.40E+02
17	60,000 <= nCi/ 70,000	9.60E+01	6.60E+01
18	70,000 <= nCi/ 80,000	1.30E+02	1.00E+02
19	80,000 <= nCi/ 90,000	1.60E+02	1.30E+02
	Subtotal	3.65E+04	2.78E+04

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	167	ID-RFO-241T	241

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+02	7.68E-04	6.13E+04	3.22E+00	6.13E+04	9.86E-04	7.86E+04	4.13E+00	7.86E+04

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
2	500 <= nCi/ 1,000	1.30E+02	1.00E+02
3	1,000 <= nCi/ 2,000	1.60E+02	1.10E+02
4	2,000 <= nCi/ 3,000	1.60E+02	1.40E+02
6	4,000 <= nCi/ 5,000	1.90E+02	1.70E+02
16	50,000 <= nCi/ 60,000	2.00E+02	1.50E+02
	Subtotal	8.40E+02	6.70E+02

Table 4. INEL transuranic mixed and non-mixed radiological alpha activity information.

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
3	1	32	ID-RFO-290	290	ID-RFO-290 is classified as alpha low level, however, the actitivy information indicates that it may be transuranic.

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	1.40E+01	2.13E-04	1.70E+04	8.93E-01	1.70E+04	3.25E-04	2.59E+04	1.36E+00	2.59E+04

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
12	10,000 <= nCi/ 20,000	6.60E+01	4.30E+01
	Subtotal	6.60E+01	4.30E+01

3	1	42	ID-RFO-292T	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)
AM-241	4.34E-01	4.21E-07	1.41E+03	2.53E-07	1.41E+03	5.17E-07	1.73E+03	3.10E-07	1.73E+03
PU-52	1.66E+04	8.41E-03	6.71E+05	3.53E+01	6.71E+05	1.07E-02	8.54E+05	4.49E+01	8.54E+05

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	4.00E+02	3.60E+02
2	500 <= nCi/ 1,000	6.10E+02	5.00E+02
3	1,000 <= nCi/ 2,000	4.20E+03	3.50E+03
4	2,000 <= nCi/ 3,000	4.30E+03	3.50E+03
5	3,000 <= nCi/ 4,000	3.10E+03	2.50E+03
6	4,000 <= nCi/ 5,000	2.80E+03	2.20E+03
7	5,000 <= nCi/ 6,000	4.60E+03	3.70E+03
8	6,000 <= nCi/ 7,000	2.90E+03	2.30E+03
9	7,000 <= nCi/ 8,000	3.20E+03	2.60E+03
10	8,000 <= nCi/ 9,000	2.40E+03	2.00E+03
11	9,000 <= nCi/ 10,000	2.00E+03	1.60E+03
12	10,000 <= nCi/ 20,000	1.20E+04	9.70E+03
13	20,000 <= nCi/ 30,000	8.10E+03	6.60E+03
14	30,000 <= nCi/ 40,000	5.10E+03	4.10E+03
15	40,000 <= nCi/ 50,000	4.30E+03	3.40E+03
16	50,000 <= nCi/ 60,000	1.40E+03	1.10E+03
17	60,000 <= nCi/ 70,000	1.80E+03	1.50E+03
18	70,000 <= nCi/ 80,000	9.00E+02	7.20E+02
19	80,000 <= nCi/ 90,000	4.40E+02	3.50E+02
20	90,000 <= nCi/ 100,000	4.00E+02	3.10E+02
21	100,000 <= nCi/ 200,000	7.30E+02	5.50E+02
	Subtotal	6.57E+04	5.31E+04

3	1	176	ID-RFO-300T	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)
AM-241	1.69E+01	8.53E-05	2.85E+05	5.12E-05	2.85E+05	1.09' -04	3.64E+05	6.52E-05	3.64E+05
PU-52	2.64E+04	5.61E-03	4.47E+05	2.35E+01	4.47E+05	7.55E-03	6.02E+05	3.17E+01	6.02E+05

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
2	500 <= nCi/ 1,000	8.00E+03	6.40E+03
3	1,000 <= nCi/ 2,000	1.80E+04	1.50E+04
4	2,000 <= nCi/ 3,000	2.10E+04	1.70E+04
5	3,000 <= nCi/ 4,000	1.80E+04	1.50E+04
6	4,000 <= nCi/ 5,000	1.30E+04	1.00E+04
7	5,000 <= nCi/ 6,000	1.20E+04	9.10E+03
8	6,000 <= nCi/ 7,000	9.70E+03	7.70E+03
9	7,000 <= nCi/ 8,000	8.60E+03	6.70E+03
10	8,000 <= nCi/ 9,000	9.50E+03	7.40E+03
11	9,000 <= nCi/ 10,000	7.50E+03	5.90E+03
12	10,000 <= nCi/ 20,000	4.90E+04	3.80E+04
13	20,000 <= nCi/ 30,000	2.10E+04	1.70E+04
14	30,000 <= nCi/ 40,000	6.50E+03	5.10E+03
15	40,000 <= nCi/ 50,000	2.40E+03	1.80E+03
16	50,000 <= nCi/ 60,000	4.10E+02	3.20E+02
17	60,000 <= nCi/ 70,000	4.40E+02	3.20E+02
21	100,000 <= nCi/ 200,000	7.30E+01	5.00E+01
22	200,000 <= nCi/ 300,000	1.10E+02	8.70E+01
	Subtotal	2.05E+05	1.63E+05