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	177	ID-RFO-301T	301

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	2.22E-07	7.44E+02	1.33E-07	7.44E+02	2.79E-07	9.32E+02	1.67E-07	9.32E+02
PU-52	5.11E+02	1.04E-03	8.26E+04	4.35E+00	8.26E+04	1.28E-03	1.02E+05	5.37E+00	1.02E+05

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
3	1,000 <= nCi/ 2,000	1.20E+02	1.00E+02
4	2,000 <= nCi/ 3,000	1.10E+02	8.40E+01
5	3,000 <= nCi/ 4,000	2.30E+02	1.90E+02
7	5,000 <= nCi/ 6,000	3.50E+02	2.80E+02
8	6,000 <= nCi/ 7,000	2.30E+02	1.90E+02
9	7,000 <= nCi/ 8,000	3.40E+02	2.90E+02
10	8,000 <= nCi/ 9,000	2.50E+02	2.00E+02
11	9,000 <= nCi/ 10,000	1.10E+02	9.10E+01
12	10,000 <= nCi/ 20,000	1.30E+03	1.10E+03
13	20,000 <= nCi/ 30,000	5.60E+02	4.50E+02
	Subtotal	3.60E+03	2.98E+03

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	53	ID-RFO-302T	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)
AM-241	2.56E-02	1.96E-07	6.57E+02	1.18E-07	6.57E+02	2.66E-07	8.91E+02	1.60E-07	8.91E+02
PU-52	9.20E+01	3.21E-04	2.56E+04	1.35E+00	2.56E+04	4.36E-04	3.48E+04	1.83E+00	3.48E+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	1.20E+04	1.00E+04
2	500 <= nCi/ 1,000	4.20E+02	3.60E+02
3	1,000 <= nCi/ 2,000	3.80E+02	2.90E+02
4	2,000 <= nCi/ 3,000	4.00E+02	3.10E+02
5	3,000 <= nCi/ 4,000	2.10E+02	1.70E+02
7	5,000 <= nCi/ 6,000	8.60E+01	6.30E+01
12	10,000 <= nCi/ 20,000	7.80E+01	5.50E+01
	Subtotal	1.36E+04	1.12E+04

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	178	ID-RFO-312T	312

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	6.56E+02	5.25E-03	4.19E+05	2.20E+01	4.19E+05	7.37E-03	5.88E+05	3.09E+01	5.88E+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	7.20E+01	4.90E+01
16	50,000 <= nCi/ 60,000	7.40E+01	5.10E+01
19	80,000 <= nCi/ 90,000	1.60E+02	1.20E+02
20	90,000 <= nCi/ 100,000	8.10E+01	5.80E+01
21	100,000 <= nCi/ 200,000	1.60E+02	1.10E+02
	Subtotal	5.47E+02	3.88E+02

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	149	ID-RFO-320T	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)
AM-241	2.67E+01	6.50E-05	2.17E+05	3.90E-05	2.17E+05	9.18E-05	3.07E+05	5.50E-05	3.07E+05
PU-52	1.58E+04	8.81E-03	7.03E+05	3.69E+01	7.03E+05	1.23E-02	9.82E+05	5.16E+01	9.82E+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	2.40E+02	2.20E+02
2	500 <= nCi/ 1,000	1.90E+03	1.60E+03
3	1,000 <= nCi/ 2,000	1.70E+03	1.30E+03
4	2,000 <= nCi/ 3,000	8.10E+02	6.70E+02
5	3,000 <= nCi/ 4,000	5.90E+02	4.80E+02
6	4,000 <= nCi/ 5,000	6.10E+02	4.70E+02
7	5,000 <= nCi/ 6,000	2.80E+02	2.10E+02
8	6,000 <= nCi/ 7,000	5.50E+02	4.30E+02
9	7,000 <= nCi/ 8,000	1.00E+02	7.70E+01
10	8,000 <= nCi/ 9,000	4.10E+02	3.40E+02
11	9,000 <= nCi/ 10,000	1.40E+02	1.20E+02
12	10,000 <= nCi/ 20,000	3.00E+03	2.20E+03
13	20,000 <= nCi/ 30,000	3.70E+03	2.60E+03
14	30,000 <= nCi/ 40,000	2.40E+03	1.70E+03
15	40,000 <= nCi/ 50,000	1.90E+03	1.30E+03
16	50,000 <= nCi/ 60,000	1.60E+03	1.10E+03
17	60,000 <= nCi/ 70,000	2.30E+03	1.70E+03
18	70,000 <= nCi/ 80,000	2.00E+03	1.40E+03
19	80,000 <= nCi/ 90,000	1.50E+03	1.00E+03
20	90,000 <= nCi/ 100,000	8.40E+02	6.20E+02
21	100,000 <= nCi/ 200,000	2.80E+03	2.00E+03
22	200,000 <= nCi/ 300,000	3.10E+02	2.20E+02
	Subtotal	2.97E+04	2.18E+04

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	111	ID-RFO-328T	328

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	3.69E+02	4.01E-03	3.20E+05	1.68E+01	3.20E+05	5.79E-03	4.62E+05	2.43E+01	4.62E+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	8.60E+01	6.40E+01
13	20,000 <= nCi/ 30,000	9.80E+01	7.60E+01
15	40,000 <= nCi/ 50,000	7.70E+01	5.40E+01
16	50,000 <= nCi/ 60,000	7.20E+01	4.90E+01
18	70,000 <= nCi/ 80,000	1.50E+02	1.00E+02
20	90,000 <= nCi/ 100,000	6.80E+01	4.50E+01
	Subtotal	5.51E+02	3.88E+02

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	84	ID-RFO-330T	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)
AM-241	6.11E+02	1.98E-04	6.61E+05	1.19E-04	6.61E+05	3.14E-04	1.05E+06	1.88E-04	1.05E+06
PU-52	5.70E+04	2.75E-03	2.19E+05	1.15E+01	2.19E+05	4.36E-03	3.48E+05	1.83E+01	3.48E+05
U-235	6.67E+03	1.60E-03	0.00E+00	3.08E+00	3.08E+00	2.51E-03	0.00E+00	4.83E+00	4.83E+00
U-238	1.40E+00	1.79E-06	0.00E+00	6.03E-04	6.03E-04	2.81E-06	0.00E+00	9.43E-04	9.43E-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	1.90E+05	1.20E+05
2	500 <= nCi/ 1,000	2.10E+05	1.40E+05
3	1,000 <= nCi/ 2,000	2.90E+05	1.90E+05
4	2,000 <= nCi/ 3,000	1.90E+05	1.20E+05
5	3,000 <= nCi/ 4,000	1.30E+05	8.60E+04
6	4,000 <= nCi/ 5,000	1.10E+05	7.00E+04
7	5,000 <= nCi/ 6,000	7.50E+04	4.80E+04
8	6,000 <= nCi/ 7,000	5.80E+04	3.70E+04
9	7,000 <= nCi/ 8,000	3.20E+04	2.00E+04
10	8,000 <= nCi/ 9,000	2.60E+04	1.60E+04
11	9,000 <= nCi/ 10,000	2.00E+04	1.20E+04
12	10,000 <= nCi/ 20,000	5.60E+04	3.50E+04
13	20,000 <= nCi/ 30,000	2.00E+04	1.30E+04
14	30,000 <= nCi/ 40,000	4.00E+03	2.50E+03
15	40,000 <= nCi/ 50,000	2.50E+02	1.60E+02
16	50,000 <= nCi/ 60,000	2.50E+03	1.60E+03
17	60,000 <= nCi/ 70,000	6.40E+01	4.10E+01
19	80,000 <= nCi/ 90,000	2.70E+03	1.80E+03
20	90,000 <= nCi/ 100,000	6.50E+02	3.70E+02
21	100,000 <= nCi/ 200,000	6.60E+03	4.50E+03
22	200,000 <= nCi/ 300,000	1.50E+03	9.10E+02
	Subtotal	1.43E+06	9.19E+05

Key Code	Identifier Code	Content Code
112	ID-RFO-335T	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)
AM-241	6.03E+00	7.56E-05	2.53E+05	4.54E-05	2.53E+05	1.10E-04	3.69E+05	6.63E-05	3.69E+05
PU-52	1.29E+03	1.36E-03	1.08E+05	5.69E+00	1.08E+05	2.23E-03	1.78E+05	9.34E+00	1.78E+05
U-235	2.80E+01	3.90E-05	0.00E+00	7.50E-02	7.50E-02	6.66E-05	0.00E+00	1.28E-01	1.28E-01

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	5.20E+02	3.40E+02
4	2,000 <= nCi/ 3,000	5.00E+02	2.50E+02
5	3,000 <= nCi/ 4,000	4.50E+02	3.10E+02
6	4,000 <= nCi/ 5,000	3.50E+02	2.30E+02
7	5,000 <= nCi/ 6,000	5.40E+01	3.20E+01
10	8,000 <= nCi/ 9,000	6.40E+01	4.10E+01
11	9,000 <= nCi/ 10,000	4.00E+02	2.90E+02
12	10,000 <= nCi/ 20,000	1.70E+03	9.90E+02
13	20,000 <= nCi/ 30,000	1.60E+03	9.30E+02
14	30,000 <= nCi/ 40,000	8.60E+02	5.10E+02
22	200,000 <= nCi/ 300,000	7.10E+01	4.80E+01
	Subtotal	6.57E+03	3.97E+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	85	ID-RFO-336T	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)
AM-241	1.85E+02	6.16E-04	2.06E+06	3.70E-04	2.06E+06	8.14E-04	2.72E+06	4.89E-04	2.72E+06
PU-52	9.04E+03	3.81E-03	3.04E+05	1.60E+01	3.04E+05	5.24E-03	4.18E+05	2.20E+01	4.18E+05
U-235	3.47E+02	9.36E-04	0.00E+00	1.80E+00	1.80E+00	1.50E-03	0.00E+00	2.89E+00	2.89E+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	3.60E+04	2.30E+04
2	500 <= nCi/ 1,000	3.80E+04	2.60E+04
3	1,000 <= nCi/ 2,000	4.80E+04	3.30E+04
4	2,000 <= nCi/ 3,000	2.20E+04	1.50E+04
5	3,000 <= nCi/ 4,000	1.70E+04	1.10E+04
6	4,000 <= nCi/ 5,000	1.30E+04	8.40E+03
7	5,000 <= nCi/ 6,000	8.30E+03	5.50E+03
8	6,000 <= nCi/ 7,000	7.30E+03	4.60E+03
9	7,000 <= nCi/ 8,000	5.10E+03	3.20E+03
10	8,000 <= nCi/ 9,000	4.10E+03	2.80E+03
11	9,000 <= nCi/ 10,000	6.30E+03	3.90E+03
12	10,000 <= nCi/ 20,000	1.10E+04	7.00E+03
13	20,000 <= nCi/ 30,000	1.30E+03	8.70E+02
14	30,000 <= nCi/ 40,000	5.30E+02	4.00E+02
15	40,000 <= nCi/ 50,000	3.50E+02	2.60E+02
16	50,000 <= nCi/ 60,000	3.00E+02	2.30E+02
17	60,000 <= nCi/ 70,000	8.60E+02	5.30E+02
18	70,000 <= nCi/ 80,000	1.00E+02	7.70E+01
19	80,000 <= nCi/ 90,000	2.30E+02	1.90E+02
20	90,000 <= nCi/ 100,000	1.00E+02	7.70E+01
21	100,000 <= nCi/ 200,000	8.30E+02	6.30E+02
22	200,000 <= nCi/ 300,000	5.80E+02	4.40E+02
23	300,000 <= nCi/ 400,000	1.60E+02	1.10E+02
24	400,000 <= nCi/ 500,000	1.10E+02	8.70E+01
26	600,000 <= nCi/ 700,000	2.90E+02	2.20E+02
	Subtotal	2.22E+05	1.48E+05

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	86	ID-RFO-337T	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)
AM-241	1.02E+02	4.32E-04	1.45E+06	2.59E-04	1.45E+06	6.06E-04	2.03E+06	3.63E-04	2.03E+06
NP-237	7.00E+00	8.17E-05	5.76E+01	2.47E-03	5.76E+01	1.11E-04	7.83E+01	3.35E-03	7.83E+01
PU-242	2.00E+00	2.33E-05	9.16E+01	2.17E-07	9.16E+01	3.17E-05	1.25E+02	2.95E-07	1.25E+02
PU-52	3.30E+03	3.85E-03	3.07E+05	1.62E+01	3.07E+05	5.17E-03	4.12E+05	2.17E+01	4.12E+05
U-235	9.00E+00	1.53E-04	0.00E+00	2.94E-01	2.94E-01	2.48E-04	0.00E+00	4.77E-01	4.77E-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	1.90E+04	1.20E+04
2	500 <= nCi/ 1,000	7.30E+03	5.40E+03
3	1,000 <= nCi/ 2,000	1.70E+04	1.10E+04
4	2,000 <= nCi/ 3,000	9.10E+03	6.00E+03
5	3,000 <= nCi/ 4,000	7.20E+03	4.70E+03
6	4,000 <= nCi/ 5,000	4.60E+03	3.10E+03
7	5,000 <= nCi/ 6,000	1.90E+03	1.20E+03
8	6,000 <= nCi/ 7,000	8.90E+02	6.70E+02
9	7,000 <= nCi/ 8,000	2.30E+02	1.40E+02
10	8,000 <= nCi/ 9,000	6.20E+02	3.90E+02
11	9,000 <= nCi/ 10,000	6.60E+02	4.80E+02
12	10,000 <= nCi/ 20,000	1.30E+03	9.60E+02
13	20,000 <= nCi/ 30,000	1.20E+03	9.50E+02
14	30,000 <= nCi/ 40,000	6.40E+02	4.80E+02
15	40,000 <= nCi/ 50,000	3.30E+02	2.60E+02
16	50,000 <= nCi/ 60,000	4.20E+02	3.30E+02
17	60,000 <= nCi/ 70,000	3.10E+02	2.20E+02
18	70,000 <= nCi/ 80,000	2.70E+02	2.20E+02
19	80,000 <= nCi/ 90,000	3.90E+02	3.00E+02
20	90,000 <= nCi/ 100,000	9.40E+01	7.10E+01
21	100,000 <= nCi/ 200,000	1.30E+03	1.00E+03
22	200,000 <= nCi/ 300,000	1.50E+02	1.00E+02
23	300,000 <= nCi/ 400,000	8.50E+01	6.20E+01
24	400,000 <= nCi/ 500,000	6.40E+01	4.20E+01
	Subtotal	7.51E+04	5.01E+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	113	ID-RFO-338T	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)
AM-241	2.00E-01	1.64E-07	5.51E+02	9.87E-08	5.51E+02	2.40E-07	8.02E+02	1.44E-07	8.02E+02
PU-52	6.49E+03	5.58E-03	4.45E+05	2.34E+01	4.45E+05	8.10E-03	6.47E+05	3.40E+01	6.47E+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	9.30E+01	7.00E+01
3	1,000 <= nCi/ 2,000	4.80E+03	3.30E+03
4	2,000 <= nCi/ 3,000	2.40E+02	1.70E+02
5	3,000 <= nCi/ 4,000	4.80E+02	3.70E+02
6	4,000 <= nCi/ 5,000	5.20E+02	3.90E+02
7	5,000 <= nCi/ 6,000	5.20E+02	4.10E+02
8	6,000 <= nCi/ 7,000	3.20E+02	2.30E+02
9	7,000 <= nCi/ 8,000	2.40E+02	1.80E+02
10	8,000 <= nCi/ 9,000	6.80E+01	4.50E+01
11	9,000 <= nCi/ 10,000	3.00E+02	1.90E+02
12	10,000 <= nCi/ 20,000	1.60E+03	1.00E+03
13	20,000 <= nCi/ 30,000	2.60E+03	1.90E+03
14	30,000 <= nCi/ 40,000	2.60E+03	1.80E+03
15	40,000 <= nCi/ 50,000	2.70E+03	1.90E+03
16	50,000 <= nCi/ 60,000	1.50E+03	1.00E+03
17	60,000 <= nCi/ 70,000	1.00E+03	7.10E+02
18	70,000 <= nCi/ 80,000	4.20E+02	2.80E+02
19	80,000 <= nCi/ 90,000	1.50E+02	1.00E+02
	Subtotal	2.02E+04	1.40E+04

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	133	ID-RFO-339T	339

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	1.22E+01	7.33E-05	2.45E+05	4.40E-05	2.45E+05	9.81E-05	3.28E+05	5.89E-05	3.28E+05
PU-52	2.02E+04	5.40E-03	4.31E+05	2.27E+01	4.31E+05	6.94E-03	5.54E+05	2.91E+01	5.54E+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	5.20E+02	4.60E+02
2	500 <= nCi/ 1,000	1.60E+03	1.40E+03
3	1,000 <= nCi/ 2,000	3.40E+03	2.90E+03
4	2,000 <= nCi/ 3,000	2.90E+03	2.50E+03
5	3,000 <= nCi/ 4,000	3.10E+03	2.60E+03
6	4,000 <= nCi/ 5,000	4.50E+03	3.90E+03
7	5,000 <= nCi/ 6,000	5.10E+03	4.40E+03
8	6,000 <= nCi/ 7,000	6.40E+03	5.60E+03
9	7,000 <= nCi/ 8,000	4.60E+03	4.00E+03
10	8,000 <= nCi/ 9,000	5.80E+03	5.00E+03
11	9,000 <= nCi/ 10,000	5.20E+03	4.50E+03
12	10,000 <= nCi/ 20,000	4.00E+04	3.40E+04
13	20,000 <= nCi/ 30,000	1.90E+04	1.60E+04
14	30,000 <= nCi/ 40,000	4.90E+03	3.90E+03
15	40,000 <= nCi/ 50,000	1.30E+03	1.00E+03
16	50,000 <= nCi/ 60,000	2.60E+02	1.90E+02
17	60,000 <= nCi/ 70,000	3.00E+02	2.50E+02
19	80,000 <= nCi/ 90,000	1.80E+02	1.30E+02
20	90,000 <= nCi/ 100,000	1.40E+02	1.20E+02
21	100,000 <= nCi/ 200,000	5.90E+02	4.30E+02
	Subtotal	1.10E+05	9.33E+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	114	ID-RFO-360T	360

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	2.17E+02	1.77E-03	1.41E+05	7.44E+00	1.41E+05	2.50E-03	2.00E+05	1.05E+01	2.00E+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+02	2.10E+02
2	500 <= nCi/ 1,000	3.70E+02	3.00E+02
3	1,000 <= nCi/ 2,000	1.60E+02	1.10E+02
5	3,000 <= nCi/ 4,000	2.20E+02	1.60E+02
6	4,000 <= nCi/ 5,000	9.10E+01	6.80E+01
7	5,000 <= nCi/ 6,000	5.40E+01	3.20E+01
9	7,000 <= nCi/ 8,000	5.40E+01	3.20E+01
12	10,000 <= nCi/ 20,000	1.10E+02	8.80E+01
14	30,000 <= nCi/ 40,000	2.20E+02	1.60E+02
17	60,000 <= nCi/ 70,000	8.20E+01	5.90E+01
	Subtotal	1.59E+03	1.22E+03

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	98	ID-RFO-371T	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	1.52E+00	1.66E-05	5.55E+04	9.95E-06	5.55E+04	2.25E-05	7.53E+04	1.35E-05	7.53E+04
PU-52	7.51E+03	8.01E-03	6.39E+05	3.36E+01	6.39E+05	1.05E-02	8.35E+05	4.39E+01	8.35E+05
U-235	1.30E+01	1.51E-04	0.00E+00	2.91E-01	2.91E-01	2.05E-04	0.00E+00	3.95E-01	3.95E-01

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	1.10E+04	9.50E+03
2	500 <= nCi/ 1,000	1.10E+04	8.80E+03
3	1,000 <= nCi/ 2,000	9.80E+03	7.20E+03
4	2,000 <= nCi/ 3,000	1.00E+03	8.10E+02
5	3,000 <= nCi/ 4,000	1.20E+03	9.70E+02
6	4,000 <= nCi/ 5,000	1.50E+03	1.20E+03
7	5,000 <= nCi/ 6,000	5.90E+02	4.30E+02
8	6,000 <= nCi/ 7,000	1.40E+03	1.10E+03
9	7,000 <= nCi/ 8,000	8.50E+02	6.70E+02
10	8,000 <= nCi/ 9,000	1.80E+02	1.40E+02
11	9,000 <= nCi/ 10,000	6.60E+02	5.20E+02
12	10,000 <= nCi/ 20,000	5.00E+03	3.90E+03
13	20,000 <= nCi/ 30,000	3.90E+03	3.00E+03
14	30,000 <= nCi/ 40,000	1.80E+03	1.40E+03
15	40,000 <= nCi/ 50,000	1.50E+03	1.20E+03
16	50,000 <= nCi/ 60,000	1.00E+03	7.80E+02
17	60,000 <= nCi/ 70,000	6.50E+02	4.90E+02
18	70,000 <= nCi/ 80,000	8.30E+02	6.30E+02
19	80,000 <= nCi/ 90,000	2.80E+02	2.10E+02
20	90,000 <= nCi/ 100,000	1.80E+02	1.40E+02
21	100,000 <= nCi/ 200,000	3.90E+02	3.00E+02
	Subtotal	5.47E+04	4.34E+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	197	ID-RFO-374T	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	1.46E-01	4.74E-07	1.59E+03	2.84E-07	1.59E+03	6.00E-07	2.01E+03	3.60E-07	2.01E+03
PU-52	9.17E+02	2.19E-03	1.75E+05	9.20E+00	1.75E+05	2.94E-03	2.34E+05	1.23E+01	2.34E+05
U-235	1.20E+01	1.20E-04	0.00E+00	2.31E-01	2.31E-01	1.55E-04	0.00E+00	2.98E-01	2.98E-01

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	5.00E+03	4.40E+03
2	500 <= nCi/ 1,000	1.20E+04	1.00E+04
3	1,000 <= nCi/ 2,000	3.60E+03	2.80E+03
4	2,000 <= nCi/ 3,000	1.40E+03	1.10E+03
5	3,000 <= nCi/ 4,000	2.50E+03	2.00E+03
6	4,000 <= nCi/ 5,000	1.20E+03	9.90E+02
7	5,000 <= nCi/ 6,000	6.80E+02	5.50E+02
8	6,000 <= nCi/ 7,000	1.20E+02	9.70E+01
9	7,000 <= nCi/ 8,000	1.10E+02	9.20E+01
10	8,000 <= nCi/ 9,000	2.40E+02	1.90E+02
11	9,000 <= nCi/ 10,000	6.70E+02	5.50E+02
12	10,000 <= nCi/ 20,000	8.80E+02	7.00E+02
13	20,000 <= nCi/ 30,000	3.30E+02	2.60E+02
14	30,000 <= nCi/ 40,000	7.30E+01	5.00E+01
15	40,000 <= nCi/ 50,000	7.70E+01	5.40E+01
	Subtotal	2.89E+04	2.38E+04

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	99	ID-RFO-375T	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	3.07E+02	3.78E-03	3.02E+05	1.59E+01	3.02E+05	5.26E-03	4.19E+05	2.20E+01	4.19E+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	1.50E+02	1.30E+02
8	6,000 <= nCi/ 7,000	7.30E+01	5.00E+01
11	9,000 <= nCi/ 10,000	8.60E+01	6.40E+01
12	10,000 <= nCi/ 20,000	9.10E+01	6.80E+01
18	70,000 <= nCi/ 80,000	8.50E+01	6.30E+01
21	100,000 <= nCi/ 200,000	7.90E+01	5.60E+01
	Subtotal	5.64E+02	4.31E+02

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

Waste Category =TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	115	ID-RFO-376T	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)
AM-241	1.03E+02	4.12E-04	1.38E+06	2.47E-04	1.38E+06	5.88E-04	1.97E+06	3.53E-04	1.97E+06
PU-52	8.66E+04	1.59E-02	1.27E+06	6.68E+01	1.27E+06	3.15E-02	2.52E+06	1.32E+02	2.52E+06
U-235	8.80E+01	1.01E-03	0.00E+00	1.94E+00	1.94E+00	2.04E-03	0.00E+00	3.93E+00	3.93E+00
U-238	2.68E+02	1.99E-03	0.00E+00	6.68E-01	6.68E-01	2.89E-03	0.00E+00	9.70E-01	9.70E-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	1.80E+03	1.20E+03
2	500 <= nCi/ 1,000	3.50E+03	2.60E+03
3	1,000 <= nCi/ 2,000	9.70E+03	6.40E+03
4	2,000 <= nCi/ 3,000	6.70E+03	4.70E+03
5	3,000 <= nCi/ 4,000	7.40E+03	5.00E+03
6	4,000 <= nCi/ 5,000	5.70E+03	4.10E+03
7	5,000 <= nCi/ 6,000	3.70E+03	2.60E+03
8	6,000 <= nCi/ 7,000	3.40E+03	2.40E+03
9	7,000 <= nCi/ 8,000	4.50E+03	3.10E+03
10	8,000 <= nCi/ 9,000	3.40E+03	2.40E+03
11	9,000 <= nCi/ 10,000	4.40E+03	3.10E+03
12	10,000 <= nCi/ 20,000	3.10E+04	2.20E+04
13	20,000 <= nCi/ 30,000	2.10E+04	1.50E+04
14	30,000 <= nCi/ 40,000	1.20E+04	8.30E+03
15	40,000 <= nCi/ 50,000	8.90E+03	6.20E+03
16	50,000 <= nCi/ 60,000	6.40E+03	4.30E+03
17	60,000 <= nCi/ 70,000	5.10E+03	3.40E+03
18	70,000 <= nCi/ 80,000	4.50E+03	2.90E+03
19	80,000 <= nCi/ 90,000	4.90E+03	3.30E+03
20	90,000 <= nCi/ 100,000	3.10E+03	2.00E+03
21	100,000 <= nCi/ 200,000	1.80E+04	1.20E+04
22	200,000 <= nCi/ 300,000	3.60E+03	2.00E+03
23	300,000 <= nCi/ 400,000	2.20E+02	7.20E+01
25	500,000 <= nCi/ 600,000	8.20E+01	5.90E+01
26	600,000 <= nCi/ 700,000	6.90E+01	4.70E+01
	Subtotal	1.73E+05	1.19E+05

Waste Category =TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	225	ID-RFO-409T	409

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	2.17E+02	7.37E-04	2.47E+06	4.42E-04	2.47E+06	9.26E-04	3.10E+06	5.56E-04	3.10E+06
PU-52	4.08E+03	9.05E-03	7.22E+05	3.79E+01	7.22E+05	1.18E-02	9.40E+05	4.94E+01	9.40E+05

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	1.30E+02	1.00E+02
15	40,000 <= nCi/ 50,000	1.30E+02	1.00E+02
20	90,000 <= nCi/ 100,000	1.20E+02	9.70E+01
21	100,000 <= nCi/ 200,000	5.00E+02	3.70E+02
22	200,000 <= nCi/ 300,000	8.30E+02	6.20E+02
23	300,000 <= nCi/ 400,000	3.70E+02	2.70E+02
24	400,000 <= nCi/ 500,000	6.60E+02	5.20E+02
25	500,000 <= nCi/ 600,000	3.30E+02	2.60E+02
30	1,000,000 <= nCi/ 2,500,000	1.20E+02	9.70E+01
	Subtotal	3.19E+03	2.43E+03

Waste Category =TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	226	ID-RFO-414T	414

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	2.60E-02	1.73E-07	5.80E+02	1.04E-07	5.80E+02	2.04E-07	6.83E+02	1.23E-07	6.83E+02
PU-52	7.66E+02	5.08E-03	4.05E+05	2.13E+01	4.05E+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)
15	40,000 <= nCi/ 50,000	5.30E+01	3.00E+01
21	100,000 <= nCi/ 200,000	3.20E+02	2.50E+02
22	200,000 <= nCi/ 300,000	6.40E+01	4.10E+01
	Subtotal	4.37E+02	3.21E+02

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

Waste ategory =TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	220	ID-RFO-430T	430

sotopic 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	2.72E+03	4.64E-03	3.70E+05	1.95E+01	3.70E+05	5.92E-03	4.72E+05	2.48E+01	4.72E+05

lpha 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	2.60E+02	2.20E+02
14	30,000 <= nCi/ 40,000	4.80E+02	3.90E+02
15	40,000 <= nCi/ 50,000	3.70E+02	2.80E+02
16	50,000 <= nCi/ 60,000	5.00E+02	4.10E+02
17	60,000 <= nCi/ 70,000	6.90E+02	5.60E+02
18	70,000 <= nCi/ 80,000	6.00E+02	4.60E+02
19	80,000 <= nCi/ 90,000	7.70E+02	5.80E+02
	Subtotal	3.67E+03	2.90E+03

3	1	221	ID-RFO-431T	431

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	2.63E+02	7.47E-04	5.96E+04	3.13E+00	5.96E+04	9.88E-04	7.88E+04	4.15E+00	7.88E+04

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	5.70E+02	4.60E+02
14	30,000 <= nCi/ 40,000	1.60E+02	1.20E+02
	Subtotal	7.30E+02	5.80E+02

3	1	222	ID-RFO-432T	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)
AM-241	4.06E+01	4.15E-05	1.39E+05	2.49E-05	1.39E+05	5.71E-05	1.91E+05	3.43E-05	1.91E+05
PU-52	9.11E+03	7.22E-03	5.76E+05	3.03E+01	5.76E+05	9.11E-03	7.27E+05	3.82E+01	7.27E+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	7.70E+02	6.40E+02
3	1,000 <= nCi/ 2,000	6.30E+02	5.20E+02
4	2,000 <= nCi/ 3,000	1.40E+03	1.20E+03
5	3,000 <= nCi/ 4,000	6.70E+02	5.70E+02
6	4,000 <= nCi/ 5,000	7.90E+02	6.50E+02
7	5,000 <= nCi/ 6,000	7.50E+02	6.20E+02
8	6,000 <= nCi/ 7,000	7.40E+02	5.90E+02
9	7,000 <= nCi/ 8,000	7.40E+02	6.30E+02
10	8,000 <= nCi/ 9,000	1.80E+03	1.50E+03
11	9,000 <= nCi/ 10,000	8.50E+02	6.60E+02
12	10,000 <= nCi/ 20,000	7.20E+03	5.90E+03
13	20,000 <= nCi/ 30,000	4.00E+03	3.20E+03
14	30,000 <= nCi/ 40,000	3.00E+03	2.40E+03
15	40,000 <= nCi/ 50,000	1.30E+03	1.10E+03
16	50,000 <= nCi/ 60,000	1.40E+03	1.10E+03
17	60,000 <= nCi/ 70,000	1.20E+03	9.60E+02
18	70,000 <= nCi/ 80,000	3.90E+02	3.00E+02
19	80,000 <= nCi/ 90,000	5.20E+02	4.00E+02
20	90,000 <= nCi/ 100,000	1.40E+02	1.10E+02
21	100,000 <= nCi/ 200,000	1.50E+03	1.10E+03
	Subtotal	2.98E+04	2.42E+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	125	ID-RFO-440T	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)
AM-241	1.12E+01	8.79E-05	2.94E+05	5.28E-05	2.94E+05	1.13E-04	3.78E+05	6.78E-05	3.78E+05
PU-52	9.26E+03	7.63E-03	6.08E+05	3.20E+01	6.08E+05	1.02E-02	8.14E+05	4.28E+01	8.14E+05
U-235	7.20E+01	3.91E-04	0.00E+00	7.53E-01	7.53E-01	5.62E-04	0.00E+00	1.08E+00	1.08E+00
U-238	3.20E+01	3.81E-04	0.00E+00	1.28E-01	1.28E-01	5.22E-04	0.00E+00	1.75E-01	1.75E-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	2.50E+03	2.10E+03
2	500 <= nCi/ 1,000	1.20E+04	9.20E+03
3	1,000 <= nCi/ 2,000	1.90E+04	1.40E+04
4	2,000 <= nCi/ 3,000	1.50E+04	1.10E+04
5	3,000 <= nCi/ 4,000	1.30E+04	9.20E+03
6	4,000 <= nCi/ 5,000	7.50E+03	5.50E+03
7	5,000 <= nCi/ 6,000	4.60E+03	3.30E+03
8	6,000 <= nCi/ 7,000	6.00E+03	4.20E+03
9	7,000 <= nCi/ 8,000	3.30E+03	2.50E+03
10	8,000 <= nCi/ 9,000	3.50E+03	2.40E+03
11	9,000 <= nCi/ 10,000	3.40E+03	2.50E+03
12	10,000 <= nCi/ 20,000	1.20E+04	9.00E+03
13	20,000 <= nCi/ 30,000	2.10E+03	1.60E+03
14	30,000 <= nCi/ 40,000	1.50E+03	1.10E+03
15	40,000 <= nCi/ 50,000	9.10E+02	6.90E+02
16	50,000 <= nCi/ 60,000	6.50E+02	4.90E+02
17	60,000 <= nCi/ 70,000	2.90E+02	2.00E+02
18	70,000 <= nCi/ 80,000	2.00E+02	1.60E+02
19	80,000 <= nCi/ 90,000	2.70E+02	2.00E+02
20	90,000 <= nCi/ 100,000	9.00E+01	6.70E+01
21	100,000 <= nCi/ 200,000	2.10E+02	1.60E+02
22	200,000 <= nCi/ 300,000	1.00E+02	7.90E+01
	Subtotal	1.08E+05	7.96E+04

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	126	ID-RFO-441T	441

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	6.00E-01	8.22E-08	2.75E+02	4.93E-08	2.75E+02	1.11E-07	3.72E+02	6.67E-08	3.72E+02
PU-52	1.25E+04	8.38E-03	6.69E+05	3.52E+01	6.69E+05	1.21E-02	9.63E+05	5.06E+01	9.63E+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	5.10E+02	3.70E+02
2	500 <= nCi/ 1,000	6.80E+03	5.10E+03
3	1,000 <= nCi/ 2,000	1.00E+04	7.90E+03
4	2,000 <= nCi/ 3,000	6.90E+03	5.20E+03
5	3,000 <= nCi/ 4,000	4.50E+03	3.40E+03
6	4,000 <= nCi/ 5,000	3.70E+03	2.70E+03
7	5,000 <= nCi/ 6,000	2.90E+03	2.20E+03
8	6,000 <= nCi/ 7,000	1.90E+03	1.40E+03
9	7,000 <= nCi/ 8,000	1.90E+03	1.40E+03
10	8,000 <= nCi/ 9,000	1.70E+03	1.20E+03
11	9,000 <= nCi/ 10,000	1.40E+03	1.00E+03
12	10,000 <= nCi/ 20,000	1.00E+04	7.70E+03
13	20,000 <= nCi/ 30,000	8.00E+03	6.00E+03
14	30,000 <= nCi/ 40,000	5.70E+03	4.20E+03
15	40,000 <= nCi/ 50,000	2.80E+03	2.10E+03
16	50,000 <= nCi/ 60,000	9.00E+02	6.50E+02
17	60,000 <= nCi/ 70,000	1.10E+03	7.80E+02
18	70,000 <= nCi/ 80,000	7.20E+01	4.90E+01
19	80,000 <= nCi/ 90,000	5.10E+02	3.80E+02
20	90,000 <= nCi/ 100,000	9.20E+01	6.90E+01
21	100,000 <= nCi/ 200,000	5.40E+01	3.10E+01
	Subtotal	7.14E+04	5.38E+04

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

Waste Category =TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	127	ID-RFO-442T	442

sotopic 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	3.00E-01	1.85E-06	6.19E+03	1.11E-06	6.19E+03	2.59E-06	8.66E+03	1.55E-06	8.66E+03
PU-52	7.09E+03	3.62E-03	2.89E+05	1.52E+01	2.89E+05	4.67E-03	3.73E+05	1.96E+01	3.73E+05
U-235	3.80E+01	2.61E-05	0.00E+00	5.01E-02	5.01E-02	3.12E-05	0.00E+00	6.00E-02	6.00E-02

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	9.90E+03	8.10E+03
2	500 <= nCi/ 1,000	1.30E+04	1.00E+04
3	1,000 <= nCi/ 2,000	1.20E+04	9.10E+03
4	2,000 <= nCi/ 3,000	8.10E+03	6.30E+03
5	3,000 <= nCi/ 4,000	6.30E+03	4.80E+03
6	4,000 <= nCi/ 5,000	5.00E+03	3.90E+03
7	5,000 <= nCi/ 6,000	2.70E+03	2.00E+03
8	6,000 <= nCi/ 7,000	3.80E+03	2.90E+03
9	7,000 <= nCi/ 8,000	3.00E+03	2.40E+03
10	8,000 <= nCi/ 9,000	2.80E+03	2.20E+03
11	9,000 <= nCi/ 10,000	4.90E+03	3.90E+03
12	10,000 <= nCi/ 20,000	1.20E+04	9.10E+03
13	20,000 <= nCi/ 30,000	2.50E+03	1.90E+03
14	30,000 <= nCi/ 40,000	1.30E+03	1.00E+03
15	40,000 <= nCi/ 50,000	7.40E+02	5.60E+02
16	50,000 <= nCi/ 60,000	6.10E+02	4.70E+02
17	60,000 <= nCi/ 70,000	9.90E+01	7.60E+01
	Subtotal	8.87E+04	6.87E+04

Waste Category =TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	87	ID-RFO-460T	460

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	8.10E+01	3.19E-04	2.55E+04	1.34E+00	2.55E+04	4.04E-04	3.23E+04	1.70E+00	3.23E+04

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	2.20E+02	1.70E+02
6	4,000 <= nCi/ 5,000	3.60E+02	2.70E+02
7	5,000 <= nCi/ 6,000	2.20E+02	1.80E+02
8	6,000 <= nCi/ 7,000	2.50E+02	2.00E+02
9	7,000 <= nCi/ 8,000	2.20E+02	1.70E+02
	Subtotal	1.27E+03	9.90E+02

Waste Category =TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	134	ID-RFO-463T	463

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	7.59E+02	1.08E-03	8.58E+04	4.51E+00	8.58E+04	1.37E-03	1.10E+05	5.76E+00	1.10E+05

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
3	1,000 <= nCi/ 2,000	1.20E+03	8.90E+02
4	2,000 <= nCi/ 3,000	2.00E+03	1.50E+03
5	3,000 <= nCi/ 4,000	5.90E+02	4.80E+02
6	4,000 <= nCi/ 5,000	7.60E+01	5.40E+01
7	5,000 <= nCi/ 6,000	4.00E+02	3.30E+02
8	6,000 <= nCi/ 7,000	7.20E+02	5.60E+02
9	7,000 <= nCi/ 8,000	5.10E+02	3.90E+02
10	8,000 <= nCi/ 9,000	2.20E+02	1.70E+02
11	9,000 <= nCi/ 10,000	5.50E+02	4.30E+02
12	10,000 <= nCi/ 20,000	2.00E+03	1.50E+03
13	20,000 <= nCi/ 30,000	2.10E+02	1.70E+02
	Subtotal	8.48E+03	6.47E+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	54	ID-RFO-464T	464

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	8.90E+01	2.30E-04	1.83E+04	9.63E-01	1.83E+04	2.90E-04	2.31E+04	1.22E+00	2.31E+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	9.60E+02	7.50E+02
3	1,000 <= nCi/ 2,000	5.80E+02	4.40E+02
4	2,000 <= nCi/ 3,000	1.10E+03	8.50E+02
5	3,000 <= nCi/ 4,000	4.00E+02	3.10E+02
6	4,000 <= nCi/ 5,000	2.00E+02	1.50E+02
7	5,000 <= nCi/ 6,000	1.30E+02	1.10E+02
	Subtotal	3.37E+03	2.61E+03

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	150	ID-RFO-480T	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)
AM-241	3.73E+01	1.03E-04	3.43E+05	6.16E-05	3.43E+05	1.33E-04	4.47E+05	8.01E-05	4.47E+05
NP-237	2.20E+01	2.20E-05	1.55E+01	6.65E-04	1.55E+01	3.06E-05	2.16E+01	9.25E-04	2.16E+01
PU-52	6.32E+04	4.97E-03	3.96E+05	2.08E+01	3.97E+05	6.37E-03	5.08E+05	2.67E+01	5.08E+05
U-235	2.61E+02	9.15E-05	0.00E+00	1.76E-01	1.76E-01	1.15E-04	0.00E+00	2.21E-01	2.21E-01

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	6.40E+05	5.40E+05
2	500 <= nCi/ 1,000	8.50E+05	6.80E+05
3	1,000 <= nCi/ 2,000	2.90E+05	2.20E+05
4	2,000 <= nCi/ 3,000	1.00E+05	8.00E+04
5	3,000 <= nCi/ 4,000	8.00E+04	6.30E+04
6	4,000 <= nCi/ 5,000	4.60E+04	3.60E+04
7	5,000 <= nCi/ 6,000	5.10E+04	3.90E+04
8	6,000 <= nCi/ 7,000	2.10E+04	1.60E+04
9	7,000 <= nCi/ 8,000	2.80E+04	2.10E+04
10	8,000 <= nCi/ 9,000	1.10E+04	8.50E+03
11	9,000 <= nCi/ 10,000	2.00E+04	1.50E+04
12	10,000 <= nCi/ 20,000	9.30E+04	7.10E+04
13	20,000 <= nCi/ 30,000	2.50E+04	1.90E+04
14	30,000 <= nCi/ 40,000	5.80E+03	4.30E+03
15	40,000 <= nCi/ 50,000	1.20E+03	9.20E+02
16	50,000 <= nCi/ 60,000	1.10E+03	8.40E+02
17	60,000 <= nCi/ 70,000	4.70E+02	3.80E+02
18	70,000 <= nCi/ 80,000	1.10E+02	8.70E+01
21	100,000 <= nCi/ 200,000	2.10E+02	1.70E+02
22	200,000 <= nCi/ 300,000	9.30E+01	7.00E+01
	Subtotal	2.26E+06	1.82E+06

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

Waste Category =TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	151	ID-RFO-481T	481

sotopic 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)
M-241	9.50E+00	3.42E-05	1.14E+05	2.05E-05	1.14E+05	4.24E-05	1.42E+05	2.54E-05	1.42E+05
U-52	2.35E+04	3.42E-03	2.73E+05	1.43E+01	2.73E+05	4.18E-03	3.34E+05	1.76E+01	3.34E+05
J-235	4.05E+02	1.97E-04	0.00E+00	3.78E-01	3.78E-01	2.47E-04	0.00E+00	4.76E-01	4.76E-01

lpha 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	2.10E+04	1.60E+04
2	500 <= nCi/ 1,000	2.30E+04	1.80E+04
3	1,000 <= nCi/ 2,000	2.10E+04	1.70E+04
4	2,000 <= nCi/ 3,000	1.30E+04	1.00E+04
5	3,000 <= nCi/ 4,000	1.10E+04	9.00E+03
6	4,000 <= nCi/ 5,000	1.10E+04	8.80E+03
7	5,000 <= nCi/ 6,000	9.10E+03	7.30E+03
8	6,000 <= nCi/ 7,000	8.50E+03	6.80E+03
9	7,000 <= nCi/ 8,000	9.50E+03	7.80E+03
10	8,000 <= nCi/ 9,000	8.80E+03	7.00E+03
11	9,000 <= nCi/ 10,000	8.50E+03	7.00E+03
12	10,000 <= nCi/ 20,000	4.40E+04	3.60E+04
13	20,000 <= nCi/ 30,000	1.60E+04	1.30E+04
14	30,000 <= nCi/ 40,000	7.00E+03	5.80E+03
15	40,000 <= nCi/ 50,000	2.30E+03	1.90E+03
16	50,000 <= nCi/ 60,000	4.90E+02	4.00E+02
17	60,000 <= nCi/ 70,000	3.50E+02	2.80E+02
19	80,000 <= nCi/ 90,000	1.30E+02	1.00E+02
	Subtotal	2.15E+05	1.72E+05

Waste Category =TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	116	ID-RFO-490T	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)
AM-241	1.80E+01	9.35E-05	3.13E+05	5.61E-05	3.13E+05	1.50E-04	5.03E+05	9.02E-05	5.03E+05
PU-52	1.64E+04	2.51E-03	2.01E+05	1.05E+01	2.01E+05	4.15E-03	3.31E+05	1.74E+01	3.31E+05
U-235	1.24E+02	1.55E-04	0.00E+00	2.98E-01	2.98E-01	2.40E-04	0.00E+00	4.61E-01	4.61E-01

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
1	100 <= nCi/ 500	2.00E+05	1.30E+05
2	500 <= nCi/ 1,000	1.50E+05	1.00E+05
3	1,000 <= nCi/ 2,000	1.50E+05	1.00E+05
4	2,000 <= nCi/ 3,000	2.10E+04	1.40E+04
5	3,000 <= nCi/ 4,000	2.00E+04	1.30E+04
6	4,000 <= nCi/ 5,000	7.80E+03	5.20E+03
7	5,000 <= nCi/ 6,000	1.30E+04	7.70E+03
8	6,000 <= nCi/ 7,000	9.40E+03	6.60E+03
9	7,000 <= nCi/ 8,000	9.70E+03	6.90E+03
10	8,000 <= nCi/ 9,000	3.70E+03	2.60E+03
11	9,000 <= nCi/ 10,000	2.30E+03	1.40E+03
12	10,000 <= nCi/ 20,000	1.90E+04	1.20E+04
13	20,000 <= nCi/ 30,000	8.90E+03	5.90E+03
14	30,000 <= nCi/ 40,000	2.20E+03	1.40E+03
15	40,000 <= nCi/ 50,000	1.90E+02	1.10E+02
19	80,000 <= nCi/ 90,000	5.50E+01	2.50E+01
22	200,000 <= nCi/ 300,000	7.30E+01	5.00E+01
	Subtotal	6.17E+05	4.07E+05

Waste Category =TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	1	66	ID-RFO-700T	700

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	1.41E+01	3.02E-05	2.41E+03	1.27E-01	2.41E+03	3.44E-05	2.75E+03	1.44E-01	2.75E+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	1.90E+03	1.70E+03
2	500 <= nCi/ 1,000	2.60E+02	2.30E+02
3	1,000 <= nCi/ 2,000	2.40E+02	2.10E+02
	Subtotal	2.40E+03	2.14E+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	90	ID-RFO-900T	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	3.00E-01	2.17E-06	1.73E+02	9.10E-03	1.73E+02	3.24E-06	2.59E+02	1.36E-02	2.59E+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	1.40E+02	9.30E+01
	Subtotal	1.40E+02	9.30E+01

3	1	169	ID-RFO-950T	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	5.60E+01	3.76E-05	3.00E+03	1.58E-01	3.00E+03	4.57E-05	3.64E+03	1.92E-01	3.64E+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	2.50E+03	2.20E+03
2	500 <= nCi/ 1,000	4.00E+03	3.10E+03
3	1,000 <= nCi/ 2,000	1.30E+02	1.10E+02
	Subtotal	6.63E+03	5.41E+03

3	1	91	ID-RFO-970T	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	4.62E+02	9.38E-05	7.48E+03	3.93E-01	7.48E+03	1.31E-04	1.04E+04	5.48E-01	1.04E+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	9.90E+03	7.90E+03
3	1,000 <= nCi/ 2,000	2.30E+04	1.60E+04
4	2,000 <= nCi/ 3,000	2.80E+02	2.10E+02
5	3,000 <= nCi/ 4,000	7.50E+01	5.20E+01
	Subtotal	3.33E+04	2.42E+04

3	1	70	ID-RFO-976T	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	2.24E+01	2.16E-05	1.72E+03	9.06E-02	1.72E+03	2.42E-05	1.93E+03	1.02E-01	1.93E+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	1.00E+03	9.20E+02
	Subtotal	1.00E+03	9.20E+02

3	1	71	ID-RFO-978T	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	4.00E+01	1.24E-05	9.90E+02	5.20E-02	9.90E+02	1.46E-05	1.16E+03	6.12E-02	1.16E+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	1.70E+03	1.40E+03
2	500 <= nCi/ 1,000	4.00E+03	3.40E+03
	Subtotal	5.70E+03	4.80E+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	46	ID-RFO-980T	980	

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	1.10E+01	1.36E-04	1.08E+04	5.70E-01	1.08E+04	1.89E-04	1.51E+04	7.91E-01	1.51E+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	8.10E+01	5.80E+01
	Subtotal	8.10E+01	5.80E+01

3	1	296	ID-RFO-9999T	9999	No alpha activity data is available for this waste stream.
3	1	316	ID-TAN-200T	200	No alpha activity data is available for this waste stream.
3	1	327	ID-TRA-291T	*	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 3 mixed waste 1

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	
Mixed waste = 2					
3	2	763	CH-ANL-538	*	No alpha activity data is available for this waste stream.
3	2	786	CH-ANL-539	*	No alpha activity data is available for this waste stream.
3	2	787	CH-ANL-540	*	No alpha activity data is available for this waste.stream.
3	2	788	CH-ANL-541	*	No alpha activity data is available for this waste stream.
3	2	789	CH-ANL-542	*	No alpha activity data is available for this waste stream.
3	2	790	CH-ANL-543	*	No alpha activity data is available for this waste stream.
3	2	791	CH-ANL-544	*	No alpha activity data is available for this waste stream.
3	2	766	CH-ANL-HST	*	No alpha activity data is available for this waste stream.
3	2	759	CH-ANL-SCT	*	No alpha activity data is available for this waste stream.
3	2	214	ID-BTO-012TN	12	No alpha activity data is available for this waste stream.
3	2	215	ID-BTO-015TN	15	

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	4.70E+00	1.31E-03	1.99E+07	9.58E+02	1.99E+07	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
34	10,000,000 <= nCi/	3.60E+00	0.00E+00
	Subtotal	3.60E+00	0.00E+00

3	2	237	ID-BTO-050TN	50	

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)
NP-237	1.00E-01	1.01E-06	7.12E-01	3.05E-05	7.12E-01	1.46E-06	1.03E+00	4.40E-05	1.03E+00
PU-239	4.10E-01	4.14E-06	2.57E+02	3.43E-06	2.57E+02	5.98E-06	3.71E+02	4.95E-05	3.71E+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	9.90E+01	6.90E+01
	Subtotal	9.90E+01	6.90E+01

3	2	154	ID-BTO-081TN	81	No alpha activity data is available for this waste stream.

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	2	216	ID-INL-152TN	152

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	2.12E+02	1.38E-04	2.09E+06	1.01E+02	2.09E+06	1.71E-04	2.59E+06	1.25E+02	2.59E+06
PU-239	2.66E+02	3.62E-03	2.25E+05	3.00E-03	2.25E+05	5.69E-03	3.53E+05	4.71E-03	3.53E+05
PU-240	1.40E+02	2.22E-03	5.03E+05	2.28E-01	5.03E+05	3.53E-03	7.99E+05	3.63E-01	7.99E+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	4.50E+01	2.30E+01
3	1,000 <= nCi/ 2,000	2.00E+02	2.00E+02
16	50,000 <= nCi/ 60,000	5.00E+01	2.70E+01
21	100,000 <= nCi/ 200,000	5.00E+01	2.70E+01
22	200,000 <= nCi/ 300,000	3.40E+02	2.70E+02
25	500,000 <= nCi/ 600,000	6.80E+01	4.50E+01
30	1,000,000 <= nCi/ 2,500,000	1.70E+03	1.40E+03
	Subtotal	2.45E+03	1.99E+03

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	2	21[illegible]	ID-INL-153TN	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-238	2.56E-01	1.05E-06	1.59E+04	7.69E-01	1.59E+04	1.27E-06	1.93E+04	9.30E-01	1.93E+04
PU-239	1.30E+01	8.43E-05	5.23E+03	6.99E-05	5.23E+03	1.02E-04	6.34E+03	8.47E-05	6.34E+03
PU-241	9.12E-02	1.22E-06	2.12E+03	1.47E+00	2.12E+03	2.58E-06	4.49E+03	3.11E+00	4.49E+03
U-235	1.44E+02	2.23E-04	0.00E+00	4.29E-01	4.29E-01	2.29E-04	0.00E+00	4.41E-01	4.41E-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	7.20E+02	7.00E+02
2	500 <= nCi/ 1,000	2.10E+02	2.10E+02
3	1,000 <= nCi/ 2,000	4.50E+02	4.30E+02
6	4,000 <= nCi/ 5,000	1.10E+02	8.40E+01
12	10,000 <= nCi/ 20,000	2.30E+02	1.90E+02
	Subtotal	1.72E+03	1.61E+03

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	2	92	ID-MDO-804TN	804

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	2.73E+02	4.16E-04	6.33E+06	3.06E+02	6.33E+06	6.94E-04	1.05E+07	5.09E+02	1.06E+07

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	9.00E+01	6.70E+01
21	100,000 <= nCi/ 200,000	1.30E+03	8.80E+02
22	200,000 <= nCi/ 300,000	5.20E+03	3.00E+03
23	300,000 <= nCi/ 400,000	4.30E+03	2.10E+03
30	1,000,000 <= nCi/ 2,500,000	7.40E+01	5.10E+01
31	2,500,000 <= nCi/ 5,000,000	3.10E+02	1.70E+02
	Subtotal	1.13E+04	6.27E+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	2	170	ID-MDO-825TN	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-238	2.17E+02	5.86E-04	8.91E+06	4.30E+02	8.91E+06	8.68E-04	1.32E+07	6.37E+02	1.32E+07
PU-239	3.52E+02	1.06E-03	6.57E+04	8.79E-04	6.57E+04	1.59E-03	9.86E+04	1.32E-03	9.86E+04
PU-240	2.00E+01	3.77E-04	8.55E+04	3.89E-02	8.55E+04	6.60E-04	1.50E+05	6.79E-02	1.50E+05
PU-52	5.28E-01	1.61E-06	1.28E+02	6.73E-03	1.28E+02	2.55E-06	2.03E+02	1.07E-02	2.03E+02
PU-83	3.04E+01	3.33E-04	4.24E+06	2.31E+02	4.24E+06	7.49E-04	9.53E+06	5.21E+02	9.53E+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	1.30E+03	9.10E+02
2	500 <= nCi/ 1,000	1.10E+02	6.30E+01
3	1,000 <= nCi/ 2,000	8.70E+03	6.20E+03
4	2,000 <= nCi/ 3,000	2.60E+02	2.00E+02
5	3,000 <= nCi/ 4,000	1.00E+03	7.10E+02
6	4,000 <= nCi/ 5,000	6.20E+01	3.20E+01
7	5,000 <= nCi/ 6,000	1.70E+02	7.80E+01
11	9,000 <= nCi/ 10,000	1.70E+02	1.40E+02
12	10,000 <= nCi/ 20,000	4.90E+02	4.00E+02
13	20,000 <= nCi/ 30,000	1.30E+03	1.00E+03
14	30,000 <= nCi/ 40,000	9.40E+02	6.50E+02
15	40,000 <= nCi/ 50,000	1.50E+03	1.00E+03
16	50,000 <= nCi/ 60,000	8.50E+02	5.70E+02
17	60,000 <= nCi/ 70,000	9.40E+02	6.30E+02
18	70,000 <= nCi/ 80,000	6.70E+02	4.80E+02
19	80,000 <= nCi/ 90,000	7.30E+01	5.00E+01
20	90,000 <= nCi/ 100,000	1.90E+02	1.20E+02
21	100,000 <= nCi/ 200,000	2.60E+03	2.10E+03
22	200,000 <= nCi/ 300,000	1.30E+03	9.70E+02
23	300,000 <= nCi/ 400,000	7.40E+02	5.80E+02
24	400,000 <= nCi/ 500,000	6.40E+02	5.10E+02
25	500,000 <= nCi/ 600,000	4.90E+02	3.70E+02
26	600,000 <= nCi/ 700,000	4.50E+02	3.60E+02
27	700,000 <= nCi/ 800,000	7.30E+02	5.70E+02
28	800,000 <= nCi/ 900,000	8.20E+01	5.90E+01
30	1,000,000 <= nCi/ 2,500,000	4.00E+02	2.50E+02
31	2,500,000 <= nCi/ 5,000,000	1.10E+02	6.20E+01
	Subtotal	2.63E+04	1.91E+04

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	2	180	ID-RFO-115TN	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	9.45E+03	4.52E-03	3.60E+05	1.89E+01	3.60E+05	6.25E-03	4.98E+05	2.62E+01	4.98E+05
U-235	3.60E+01	2.74E-04	0.00E+00	5.26E-01	5.26E-01	3.98E-04	0.00E+00	7.65E-01	7.65E-01

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
2	500 <= nCi/ 1,000	2.00E+02	1.40E+02
3	1,000 <= nCi/ 2,000	1.20E+02	9.00E+01
4	2,000 <= nCi/ 3,000	5.90E+01	2.90E+01
5	3,000 <= nCi/ 4,000	3.40E+02	2.50E+02
6	4,000 <= nCi/ 5,000	9.00E+02	6.50E+02
7	5,000 <= nCi/ 6,000	8.60E+02	6.10E+02
8	6,000 <= nCi/ 7,000	5.90E+02	4.00E+02
9	7,000 <= nCi/ 8,000	1.70E+03	1.20E+03
10	8,000 <= nCi/ 9,000	1.10E+03	8.10E+02
11	9,000 <= nCi/ 10,000	1.60E+03	1.10E+03
12	10,000 <= nCi/ 20,000	1.20E+04	8.60E+03
13	20,000 <= nCi/ 30,000	5.40E+03	3.90E+03
14	30,000 <= nCi/ 40,000	2.20E+03	1.60E+03
15	40,000 <= nCi/ 50,000	3.30E+03	2.40E+03
16	50,000 <= nCi/ 60,000	1.90E+03	1.30E+03
17	60,000 <= nCi/ 70,000	1.00E+03	7.50E+02
18	70,000 <= nCi/ 80,000	1.30E+02	1.00E+02
	Subtotal	3.34E+04	2.39E+04

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code	
3	2	224	ID-RFO-124TN	124	No alpha activity data is available for this waste stream.

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	2	181	ID-RFO-303TN	303

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	5.42E-01	1.87E-06	6.26E+03	1.12E-06	6.26E+03	2.42E-06	8.10E+03	1.45E-06	8.10E+03
PU-52	1.44E+03	2.75E-03	2.19E+05	1.15E+01	2.20E+05	3.53E-03	2.82E+05	1.48E+01	2.82E+05

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	8.60E+01	6.30E+01
4	2,000 <= nCi/ 3,000	3.40E+02	2.60E+02
5	3,000 <= nCi/ 4,000	1.20E+02	9.00E+01
6	4,000 <= nCi/ 5,000	1.00E+02	7.70E+01
7	5,000 <= nCi/ 6,000	3.60E+02	2.70E+02
8	6,000 <= nCi/ 7,000	3.60E+02	2.80E+02
9	7,000 <= nCi/ 8,000	2.80E+02	2.00E+02
10	8,000 <= nCi/ 9,000	1.20E+02	9.70E+01
11	9,000 <= nCi/ 10,000	3.50E+02	2.70E+02
12	10,000 <= nCi/ 20,000	2.70E+03	2.10E+03
13	20,000 <= nCi/ 30,000	8.80E+02	6.60E+02
14	30,000 <= nCi/ 40,000	2.20E+02	1.70E+02
15	40,000 <= nCi/ 50,000	3.50E+02	2.80E+02
16	50,000 <= nCi/ 60,000	3.40E+02	2.70E+02
	Subtotal	6.61E+03	5.09E+03

Waste Category =TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	2	182	ID-RFO-310TN	310

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	2.22E+02	2.52E-03	2.01E+05	1.06E+01	2.01E+05	3.64E-03	2.90E+05	1.53E+01	2.90E+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	3.30E+02	2.60E+02
3	1,000 <= nCi/ 2,000	2.10E+02	1.70E+02
4	2,000 <= nCi/ 3,000	4.30E+02	3.40E+02
5	3,000 <= nCi/ 4,000	4.40E+02	3.50E+02
7	5,000 <= nCi/ 6,000	1.00E+02	8.00E+01
13	20,000 <= nCi/ 30,000	1.20E+02	9.30E+01
21	100,000 <= nCi/ 200,000	6.90E+01	4.60E+01
	Subtotal	1.70E+03	1.34E+03

Waste Category =TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	2	183	ID-RFO-311TN	311

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	1.14E+03	3.38E-03	2.69E+05	1.42E+01	2.69E+05	4.37E-03	3.49E+05	1.83E+01	3.49E+05

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	8.80E+02	6.00E+02
17	60,000 <= nCi/ 70,000	2.40E+02	1.90E+02
18	70,000 <= nCi/ 80,000	2.10E+02	1.60E+02
21	100,000 <= nCi/ 200,000	4.60E+02	3.50E+02
	Subtotal	1.79E+03	1.30E+03

Waste Category =TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	2	119	ID-RFO-361TN	361

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	1.99E+02	1.07E-03	8.52E+04	4.48E+00	8.52E+04	1.42E-03	1.13E+05	5.94E+00	1.13E+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	1.90E+02	1.40E+02
	Subtotal	1.90E+02	1.40E+02

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	2	184	ID-RFO-370TN	370

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	9.11E-07	3.05E+03	5.47E-07	3.05E+03	1.15E-06	3.84E+03	6.89E-07	3.84E+03
PU-52	2.80E+02	2.25E-03	1.80E+05	9.46E+00	1.80E+05	3.04E-03	2.43E+05	1.28E+01	2.43E+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	7.30E+02	6.60E+02
2	500 <= nCi/ 1,000	2.80E+02	2.40E+02
12	10,000 <= nCi/ 20,000	3.10E+02	2.40E+02
13	20,000 <= nCi/ 30,000	2.10E+02	1.70E+02
16	50,000 <= nCi/ 60,000	1.10E+02	8.70E+01
20	90,000 <= nCi/ 100,000	7.50E+01	5.30E+01
	Subtotal	1.72E+03	1.45E+03

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	2	196	ID-RFO-372TN	372
3	2	185	ID-RFO-391TN	391

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	9.07E+01	8.01E-04	2.68E+06	4.81E-04	2.68E+06	1.04E-03	3.49E+06	6.26E-04	3.49E+06
PU-52	1.07E+03	3.73E-03	2.98E+05	1.57E+01	2.98E+05	4.63E-03	3.69E+05	1.94E+01	3.69E+05

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
4	2,000 <= nCi/ 3,000	2.10E+02	1.90E+02
5	3,000 <= nCi/ 4,000	1.20E+02	9.80E+01
8	6,000 <= nCi/ 7,000	1.70E+02	1.40E+02
12	10,000 <= nCi/ 20,000	1.00E+03	8.80E+02
13	20,000 <= nCi/ 30,000	5.50E+02	4.80E+02
17	60,000 <= nCi/ 70,000	2.60E+02	2.20E+02
18	70,000 <= nCi/ 80,000	1.40E+02	1.10E+02
19	80,000 <= nCi/ 90,000	1.10E+02	8.50E+01
21	100,000 <= nCi/ 200,000	5.80E+02	4.70E+02
31	2,500,000 <= nCi/ 5,000,000	9.60E+01	7.30E+01
	Subtotal	3.24E+03	2.75E+03

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	2	186	ID-RFO-392TN	392

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	1.23E+03	3.49E-03	2.79E+05	1.47E+01	2.79E+05	4.51E-03	3.59E+05	1.89E+01	3.59E+05

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
15	40,000 <= nCi/ 50,000	1.10E+02	8.90E+01
17	60,000 <= nCi/ 70,000	4.60E+02	3.70E+02
18	70,000 <= nCi/ 80,000	4.00E+02	3.00E+02
19	80,000 <= nCi/ 90,000	3.70E+02	2.80E+02
	Subtotal	1.34E+03	1.04E+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	2	187	ID-RFO-393TN	393

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	3.65E-02	1.47E-07	4.92E+02	8.83E-08	4.92E+02	1.96E-07	6.56E+02	1.18E-07	6.56E+02
PU-52	7.00E+03	9.39E-03	7.49E+05	3.94E+01	7.49E+05	1.29E-02	1.03E+06	5.42E+01	1.03E+06

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	1.00E+02	7.70E+01
16	50,000 <= nCi/ 60,000	9.00E+01	6.70E+01
17	60,000 <= nCi/ 70,000	2.60E+02	1.90E+02
18	70,000 <= nCi/ 80,000	3.90E+02	3.00E+02
19	80,000 <= nCi/ 90,000	2.00E+02	1.60E+02
20	90,000 <= nCi/ 100,000	2.80E+02	2.10E+02
21	100,000 <= nCi/ 200,000	3.00E+03	2.30E+03
22	200,000 <= nCi/ 300,000	6.70E+01	4.40E+01
	Subtotal	4.39E+03	3.35E+03

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	2	228	ID-RFO-410TN	410

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	2.06E+01	8.61E-05	2.88E+05	5.16E-05	2.88E+05	1.05E-04	3.53E+05	6.33E-05	3.53E+05
PU-52	2.33E+02	1.05E-03	8.40E+04	4.42E+00	8.40E+04	1.29E-03	1.03E+05	5.39E+00	1.03E+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	1.10E+02	9.10E+01
6	4,000 <= nCi/ 5,000	1.20E+02	9.50E+01
10	8,000 <= nCi/ 9,000	1.30E+02	1.00E+02
11	9,000 <= nCi/ 10,000	1.60E+02	1.40E+02
12	10,000 <= nCi/ 20,000	1.00E+03	8.70E+02
13	20,000 <= nCi/ 30,000	2.50E+02	2.00E+02
14	30,000 <= nCi/ 40,000	4.70E+02	4.00E+02
15	40,000 <= nCi/ 50,000	1.70E+02	1.50E+02
17	60,000 <= nCi/ 70,000	3.00E+02	2.60E+02
18	70,000 <= nCi/ 80,000	1.70E+02	1.50E+02
20	90,000 <= nCi/ 100,000	8.30E+01	6.00E+01
	Subtotal	2.96E+03	2.52E+03

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	2	229	ID-RFO-411TN	411

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	6.36E+02	3.78E-03	3.01E+05	1.58E+01	3.01E+05	5.89E-03	4.70E+05	2.47E+01	4.70E+05

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	6.60E+01	4.30E+01
12	10,000 <= nCi/ 20,000	1.50E+02	1.30E+02
14	30,000 <= nCi/ 40,000	1.40E+02	1.10E+02
22	200,000 <= nCi/ 300,000	1.80E+02	1.10E+02
	Subtotal	5.36E+02	3.93E+02

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	2	230	ID-RFO-412TN	412

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	1.85E-04	1.48E+04	7.77E-01	1.48E+04	2.32E-04	1.85E+04	9.71E-01	1.85E+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	1.10E+02	9.10E+01
	Subtotal	1.10E+02	9.10E+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	2	153	ID-RFO-416TN	416

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	3.10E+01	1.41E-04	4.73E+05	8.47E-05	4.73E+05	1.58E-04	5.27E+05	9.45E-05	5.27E+05
PU-52	1.70E+02	7.74E-04	6.18E+04	3.25E+00	6.18E+04	8.64E-04	6.89E+04	3.62E+00	6.89E+04

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	2.20E+02	2.00E+02
	Subtotal	2.20E+02	2.00E+02

3	2	199	ID-RFO-420TN	420

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	7.81E+02	4.84E-03	3.86E+05	2.03E+01	3.86E+05	6.65E-03	5.30E+05	2.79E+01	5.30E+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	9.40E+02	8.30E+02
13	20,000 <= nCi/ 30,000	3.40E+02	3.00E+02
14	30,000 <= nCi/ 40,000	1.70E+02	1.50E+02
21	100,000 <= nCi/ 200,000	1.60E+02	1.20E+02
22	200,000 <= nCi/ 300,000	7.40E+01	5.10E+01
	Subtotal	1.68E+03	1.45E+03

3	2	200	ID-RFO-421TN	421

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	1.78E+04	5.94E-03	4.74E+05	2.49E+01	4.74E+05	7.57E-03	6.04E+05	3.18E+01	6.04E+05

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
16	50,000 <= nCi/ 60,000	1.20E+02	9.30E+01
18	70,000 <= nCi/ 80,000	2.40E+02	1.90E+02
19	80,000 <= nCi/ 90,000	6.70E+02	5.30E+02
20	90,000 <= nCi/ 100,000	3.20E+02	2.50E+02
21	100,000 <= nCi/ 200,000	8.40E+03	6.40E+03
	Subtotal	9.75E+03	7.46E+03

3	2	201	ID-RFO-422TN	422

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	9.30E-03	1.19E-07	3.99E+02	7.15E-08	3.99E+02	1.68E-07	5.63E+02	1.01E-07	5.63E+02
PU-52	1.27E+03	8.00E-03	6.38E+05	3.35E+01	6.38E+05	1.12E-02	8.94E+05	4.70E+01	8.94E+05

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

Interval number	TRU alpha activity concentration	Interval gross mass (kg)	Interval waste mass (kg)
2	500 <= nCi/ 1,000	1.00E+02	7.70E+01
3	1,000 <= nCi/ 2,000	6.40E+01	4.20E+01
5	3,000 <= nCi/ 4,000	1.00E+02	7.70E+01
10	8,000 <= nCi/ 9,000	1.90E+02	1.40E+02
11	9,000 <= nCi/ 10,000	6.10E+01	3.90E+01
12	10,000 <= nCi/ 20,000	6.10E+02	4.70E+02
13	20,000 <= nCi/ 30,000	1.00E+02	5.80E+01
14	30,000 <= nCi/ 40,000	1.70E+02	1.30E+02
15	40,000 <= nCi/ 50,000	7.80E+01	5.50E+01
17	60,000 <= nCi/ 70,000	1.90E+02	1.40E+02
18	70,000 <= nCi/ 80,000	1.20E+02	9.70E+01
21	100,000 <= nCi/ 200,000	3.00E+02	2.30E+02
22	200,000 <= nCi/ 300,000	6.50E+01	4.30E+01
	Subtotal	2.15E+03	1.60E+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	2	202	ID-RFO-425TN	425

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	3.00E+00	1.84E-05	1.47E+03	7.72E-02	1.47E+03	2.14E-05	1.70E+03	8.96E-02	1.70E+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	1.70E+02	1.40E+02
2	500 <= nCi/ 1,000	1.60E+02	1.40E+02
	Subtotal	3.30E+02	2.80E+02

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	2	100	ID-RFO-960TN	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	3.22E+02	1.17E-03	9.30E+04	4.89E+00	9.30E+04	1.51E-03	1.21E+05	6.35E+00	1.21E+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	5.00E+03	4.50E+03
2	500 <= nCi/ 1,000	1.80E+03	1.60E+03
3	1,000 <= nCi/ 2,000	7.20E+02	5.80E+02
5	3,000 <= nCi/ 4,000	2.40E+02	2.10E+02
6	4,000 <= nCi/ 5,000	1.40E+02	9.40E+01
7	5,000 <= nCi/ 6,000	1.80E+02	1.40E+02
8	6,000 <= nCi/ 7,000	1.80E+02	1.40E+02
12	10,000 <= nCi/ 20,000	3.70E+02	2.70E+02
16	50,000 <= nCi/ 60,000	2.10E+02	1.70E+02
	Subtotal	8.84E+03	7.70E+03

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	2	47	ID-RFO-995TN	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	5.70E+01	3.83E-06	3.06E+02	1.61E-02	3.06E+02	4.40E-06	3.51E+02	1.85E-02	3.51E+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	1.50E+04	1.30E+04
	Subtotal	1.50E+04	1.30E+04

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	2	224	ID-RFP-124TN	124

Waste Category 3=TRUW	Mixed Waste 1=mixed 2= non-mixed	Key Code	Wastestream Identifier Code	Content Code
3	2	212	ID-TRA-154TN	154

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 3 mixed waste 2