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CALORIMETRY EXCHANGE PROGRAM

QUARTERLY DATA REPORT

4TH QUARTER CY91

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Prepared by

Tina M. McClelland

Tina M. McClelland
EG&G Mound Applied Technologies

Reviewed By

Raymond J. Seiler

Raymond J. Seiler
EG&G Mound Applied Technologies

MASTER

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The Calorimetry Sample Exchange Program

The goals of the Calorimetry Sample Exchange Program are:

1. Discuss measurement differences
2. Review and improve analytical measurements and methods
3. Discuss new measurement capabilities
4. Provide data to DOE on measurement capabilities to evaluate shipper-receiver differences
5. Provide characterized or standard materials as necessary for exchange participants
6. Provide a measurement control program for plutonium analysis

A sample of PuO₂ powder is available at each participating site for NDA measurement, including either or both calorimetry and high-resolution gamma-ray spectroscopy, the elements which are typically combined to provide a calorimetric assay of plutonium. The facilities measure the sample as frequently and to the level of precision which they desire, and then submit the data to the Exchange for analysis. Statistical tests are used to evaluate the data and to determine if there are significant differences from accepted values for the exchange sample or from data previously reported by that facility. This information is presented, in the form of a quarterly report, intended for use by Exchange participants in measurement control programs, or to indicate when bias corrections may be appropriate. No attempt, however, has been made to standardize methods or frequency of data collection, calibration, or operating procedures. Direct comparisons between laboratories may, therefore, be misleading since data have not been collected to the same precision or for the same time periods.

A meeting of the participants of the Calorimetry Exchange is held annually at EG&G Mound Applied Technologies. The purposes of this meeting are to discuss measurement differences, problems, and new measurement capabilities, and to determine the additional activities needed to fulfill the goals of the Exchange.

NOTE: The next Calorimetry Exchange Program Annual Meeting is scheduled for April 28 - 29, 1993 at EG&G Mound Applied Technologies.

DISCLAIMER

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SUMMARY TABLE

% DIFFERENCE FROM ACCEPTED VALUES FOR THE CALORIMETRY EXCHANGE SAMPLE

	LIVERMORE	LOS ALAMOS	MOUND	HANFORD	ROCKY FLATS CSL	AL	SAVANNAH RIVER
POWER	0.71	0.04	-0.06	-0.13	**	0.16	**
P-EFF	-0.19	-0.07	0.08	0.08	**	0.06	**
238/239 Pu	-0.25	3.77	4.07	2.50	**	3.64	**
240/239 Pu	0.07	0.14	0.15	1.16	**	-0.29	**
241/239 Pu	-0.02	0.18	-0.16	-0.30	**	0.27	**
Am/239 Pu	-1.65	-1.11	-0.36	-0.96	**	-0.02	**
% 238 Pu	-0.25	3.76	4.06	2.44	**	3.67	**
% 239 Pu	0.42	0.41	0.00	-0.06	**	0.02	**
% 240 Pu	0.07	0.13	0.14	1.09	**	-1.10	**
% 241 Pu	-0.03	0.17	-0.16	-0.36	**	-0.96	**
% 241 Am	-1.66	-1.12	-0.36	-1.02	**	-1.25	**

** No data was reported for this measurement.

RESULTS OF ANALYSIS OF POWER DATA

Fourth Quarter 1991

REPORTING LABORATORY

	CSL	LLNL	LANL	MOUND	WHO	RFP	SRS
Mean Error (mW)	****	6.993	0.436	-0.576	-1.238	1.575	****
Std. Dev. (mW)	****	21.978	1.620	1.743	1.896	1.738	****
Unc. in Mean (mW)	****	1.881	0.467	0.300	0.272	0.917	****
Mean Error (%)	****	0.71%	0.04%	-0.06%	-0.13%	0.16%	****
Std. Dev. (%)	****	2.22%	0.16%	0.18%	0.19%	0.18%	****
Unc. in Mean (%)	****	0.19%	0.05%	0.03%	0.03%	0.09%	****

DIFFERENCE FROM LAST PERIOD

Diff. in Mean Error (mW)	****	9.188	-1.012	0.407	0.252	1.038	****
Diff. in Std. Dev. (mW)	****	12.267	-0.575	0.609	0.185	0.558	****
Diff. in Mean Error (%)	****	0.93%	-0.11%	0.04%	0.02%	0.11%	****
Diff. in Std. Dev. (%)	****	1.24%	-0.06%	0.07%	0.02%	0.06%	****
Number of Data Points	0	7	14	22	16	31	0

LAWRENCE LIVERMORE - POWER DATA
1ST - 4TH QUARTERS 1991

LOS ALAMOS - POWER DATA 1ST - 4TH QUARTERS 1991

EG&G MOUND - POWER DATA
1ST - 4TH QUARTERS 1991

WESTINGHOUSE HANFORD - POWER DATA
1ST - 4TH QUARTERS 1991

EG&G ROCKY FLATS - ANALYTICAL LAB.
POWER DATA - 3RD - 4TH QUARTERS 1991

CALORIMETER DATA
4TH QUARTER 1991

ROCKY FLATS - CHEM STANDARDS LABORATORY
NO DATA REPORTED

LAWRENCE LIVERMORE NATIONAL LABORATORY

#	Date Measured	Instr. ID	Measured Watts	Uncert. 1 STD	Accepted Watts	Ratio M/A	mW Error	Percent Error
1	3-Oct-91	32	0.9877	0.50%	0.9880	1.000	-0.306	-0.03%
2	15-Oct-91	30	0.9831	0.50%	0.9881	0.995	-5.069	-0.51%
3	18-Oct-91	30	0.9843	0.50%	0.9882	0.996	-3.893	-0.39%
4	23-Oct-91	32	0.9888	0.50%	0.9882	1.001	0.572	0.06%
5	29-Oct-91	2	0.9981	0.50%	0.9883	1.010	9.824	0.99%
6	22-Nov-91	2	1.0438	0.50%	0.9886	1.056	55.210	5.58%
7	3-Dec-91	32	0.9813	0.50%	0.9887	0.993	-7.388	-0.75%

LOS ALAMOS NATIONAL LABORATORY

#	Date Measured	Instr. ID	Measured Watts	Uncert. 1 STD	Accepted Watts	Ratio M/A	mW Error	Percent Error
1	1-Oct-91	K2	0.9885	0.2%	0.9880	1.001	0.543	0.05%
2	1-Oct-91	K4	0.9885	0.2%	0.9880	1.001	0.543	0.05%
3	10-Oct-91	K3	0.9854	0.2%	0.9881	0.997	-2.736	-0.28%
4	17-Oct-91	K2	0.9879	0.2%	0.9882	1.000	-0.313	-0.03%
5	21-Oct-91	K7	0.9892	0.1%	0.9882	1.001	0.992	0.10%
6	1-Nov-91	K1	0.9900	0.1%	0.9883	1.002	1.691	0.17%
7	1-Nov-91	K2	0.9905	0.2%	0.9883	1.002	2.121	0.21%
8	1-Nov-91	K4	0.9873	0.2%	0.9883	0.999	-1.009	-0.10%
9	12-Nov-91	K8	0.9890	0.1%	0.9884	1.001	0.540	0.05%
10	30-Nov-91	K1	0.9861	0.1%	0.9886	0.997	-2.587	-0.26%
11	2-Dec-91	K8	0.9909	0.1%	0.9887	1.002	2.231	0.23%
12	13-Dec-91	K1	0.9898	0.1%	0.9888	1.001	0.980	0.10%
13	20-Dec-91	K3	0.9896	0.2%	0.9889	1.001	0.684	0.07%
14	23-Dec-91	K2	0.9913	0.2%	0.9889	1.002	2.421	0.24%

EG&G MOUND APPLIED TECHNOLOGIES

#	Date Measured	Instr. ID	Measured Watts	Uncert. 1 STD	Accepted Watts	Ratio M/A	mW Error	Percent Error
1	9-Oct-91	128	0.986361	0.15%	0.988075	0.998	-1.714	-0.17%
2	30-Oct-91	128	0.984339	0.15%	0.988307	0.996	-3.968	-0.40%
3	31-Oct-91	128	0.990308	0.15%	0.988318	1.002	1.990	0.20%
4	4-Nov-91	128	0.990094	0.15%	0.988362	1.002	1.732	0.18%
5	6-Nov-91	111	0.989899	0.10%	0.988384	1.002	1.515	0.15%
6	12-Nov-91	128	0.989428	0.15%	0.988450	1.001	0.978	0.10%
7	13-Nov-91	111	0.990154	0.10%	0.988461	1.002	1.693	0.17%
8	21-Nov-91	128	0.986828	0.15%	0.988549	0.998	-1.721	-0.17%
9	26-Nov-91	111	0.989477	0.10%	0.988603	1.001	0.874	0.09%
10	26-Nov-91	128	0.988661	0.15%	0.988603	1.000	0.058	0.01%
11	27-Nov-91	128	0.988976	0.15%	0.988614	1.000	0.362	0.04%
12	3-Dec-91	128	0.988004	0.15%	0.988680	0.999	-0.676	-0.07%
13	4-Dec-91	128	0.986976	0.15%	0.988691	0.998	-1.715	-0.17%
14	4-Dec-91	128	0.986046	0.15%	0.988691	0.997	-2.645	-0.27%
15	5-Dec-91	128	0.988984	0.15%	0.988702	1.000	0.282	0.03%
16	5-Dec-91	128	0.988457	0.15%	0.988702	1.000	-0.245	-0.02%
17	11-Dec-91	128	0.985466	0.15%	0.988768	0.997	-3.302	-0.33%
18	11-Dec-91	128	0.987815	0.15%	0.988768	0.999	-0.953	-0.10%
19	12-Dec-91	128	0.986079	0.15%	0.988779	0.997	-2.700	-0.27%
20	12-Dec-91	128	0.987205	0.15%	0.988779	0.998	-1.574	-0.16%
21	16-Dec-91	111	0.989562	0.10%	0.988823	1.001	0.739	0.07%
22	17-Dec-91	128	0.987151	0.15%	0.988834	0.998	-1.683	-0.17%

WESTINGHOUSE HANFORD COMPANY

#	Date Measured	Instr. ID	Measured Watts	Uncert. 1 STD	Accepted Watts	Ratio M/A	mW Error	Percent Error
1	15-Oct-91	2	0.9862	0.18%	0.9881	0.998	-1.941	-0.20%
2	16-Oct-91	3	0.9868	0.18%	0.9882	0.999	-1.352	-0.14%
3	17-Oct-91	4	0.9891	0.18%	0.9882	1.001	0.937	0.09%
4	23-Oct-91	2	0.9842	0.18%	0.9882	0.996	-4.030	-0.41%
5	25-Oct-91	1	0.9873	0.18%	0.9883	0.999	-0.952	-0.10%
6	15-Nov-91	1	0.9892	0.18%	0.9885	1.001	0.717	0.07%
7	20-Nov-91	1	0.9868	0.18%	0.9885	0.998	-1.738	-0.18%
8	21-Nov-91	4	0.9881	0.18%	0.9885	1.000	-0.449	-0.05%
9	21-Nov-91	5	0.9845	0.18%	0.9885	0.996	-4.049	-0.41%
10	28-Nov-91	3	0.9868	0.18%	0.9886	0.998	-1.825	-0.18%
11	3-Dec-91	2	0.9843	0.23%	0.9887	0.996	-4.380	-0.44%
12	4-Dec-91	5	0.9883	0.23%	0.9887	1.000	-0.391	-0.04%
13	6-Dec-91	1	0.9866	0.23%	0.9887	0.998	-2.113	-0.21%
14	11-Dec-91	5	0.9894	0.23%	0.9888	1.001	0.632	0.06%
15	17-Dec-91	1	0.9912	0.23%	0.9888	1.002	2.366	0.24%
16	18-Dec-91	4	0.9876	0.23%	0.9888	0.999	-1.244	-0.13%

ROCKY FLATS PLANT - ANALYTICAL LABORATORY

#	Date Measured	Instr. ID	Measured Watts	Uncert. 1 STD	Accepted Watts	Ratio M/A	mW Error	Percent Error
1	1-Oct-91	MO2	0.9905	0.43%	0.9880	1.002	2.465	0.25%
2	1-Oct-91	MO3	0.9902	0.40%	0.9880	1.002	2.251	0.23%
3	2-Oct-91	MO1	0.9887	0.42%	0.9880	1.001	0.655	0.07%
4	2-Oct-91	MO8	0.9871	0.80%	0.9880	0.999	-0.915	-0.09%
5	3-Oct-91	MT1	0.9857	0.37%	0.9880	0.998	-2.260	-0.23%
6	3-Oct-91	MO5	0.9896	0.44%	0.9880	1.002	1.627	0.16%
7	4-Oct-91	MO4	0.9909	0.43%	0.9880	1.003	2.853	0.29%
8	7-Oct-91	MT2	0.9847	0.36%	0.9881	0.997	-3.361	-0.34%
9	8-Oct-91	MO6	0.9905	0.42%	0.9881	1.002	2.401	0.24%
10	10-Oct-91	MO7	0.9877	0.76%	0.9881	1.000	-0.337	-0.03%
11	10-Oct-91	MO10	0.9882	0.79%	0.9881	1.000	0.087	0.01%
12	11-Oct-91	MO2	0.9915	0.42%	0.9881	1.003	3.365	0.34%
13	23-Oct-91	MO3	0.9900	0.40%	0.9882	1.002	1.740	0.18%
14	25-Oct-91	MT1	0.9889	0.37%	0.9883	1.001	0.628	0.06%
15	25-Oct-91	MO4	0.9900	0.43%	0.9883	1.002	1.713	0.17%
16	29-Oct-91	MT2	0.9908	0.36%	0.9883	1.003	2.487	0.25%
17	30-Oct-91	MO4	0.9916	0.43%	0.9883	1.003	3.310	0.33%
18	30-Oct-91	MO8	0.9907	0.79%	0.9883	1.002	2.356	0.24%
19	30-Oct-91	MO9	0.9877	0.80%	0.9883	0.999	-0.563	-0.06%
20	31-Oct-91	MO5	0.9906	0.44%	0.9883	1.002	2.319	0.23%
21	1-Nov-91	MO3	0.9899	0.40%	0.9883	1.002	1.553	0.16%
22	4-Nov-91	MO4	0.9904	0.43%	0.9884	1.002	2.009	0.20%
23	5-Nov-91	MO8	0.9879	0.79%	0.9884	1.000	-0.444	-0.04%
24	12-Nov-91	MO2	0.9904	0.43%	0.9884	1.002	1.900	0.19%
25	12-Nov-91	MO6	0.9906	0.42%	0.9884	1.002	2.121	0.21%
26	19-Nov-91	MT2	0.9923	0.36%	0.9885	1.004	3.770	0.38%
27	26-Nov-91	MO2	0.9909	0.42%	0.9886	1.002	2.271	0.23%
28	26-Nov-91	MO6	0.9912	0.42%	0.9886	1.003	2.644	0.27%
29	10-Dec-91	MO2	0.9926	0.42%	0.9888	1.004	3.833	0.39%
30	10-Dec-91	MO6	0.9920	0.42%	0.9888	1.003	3.227	0.33%
31	17-Dec-91	MO8	0.9920	0.79%	0.9888	1.003	3.119	0.32%

WESTINGHOUSE SAVANNAH RIVER SITE

NO DATA REPORTED

RESULTS OF ANALYSIS OF P-EFFECTIVE DATA

	REPORTING LABORATORY						
	CSL	LLNL	LANL	MOUND	WHO	RFP	
Mean Error (mW/g)	****	-0.0047	-0.0018	0.0020	0.0021	0.0015	****
Std. Dev. (mW/g)	****	0.0023	0.0079	0.0043	0.0034	0.0084	****
Unc. in Mean (mW/g)	****	0.0006	0.0021	0.0011	0.0005	0.0014	****
Mean Error (%)	****	-0.19%	-0.07%	0.08%	0.08%	0.06%	****
Std. Dev. (%)	****	0.09%	0.32%	0.17%	0.14%	0.34%	****
Unc. in Mean (%)	****	0.02%	0.08%	0.04%	0.02%	0.06%	****
DIFFERENCE FROM LAST PERIOD							
Diff. in Mean Error (mW/g)	****	0.0014	-0.0065	-0.0006	-0.0003	0.0038	****
Diff. in Std. Dev. (mW/g)	****	0.0012	0.0011	0.0001	-0.0012	0.0026	****
Diff. in Mean Error (%)	****	0.05%	-0.26%	-0.03%	-0.02%	0.15%	****
Diff. in Std. Dev. (%)	****	0.05%	0.05%	0.00%	-0.04%	0.10%	****
Number of Data Points	0	12	17	18	23	45	0

* NO DATA REPORTED FOR THIS MEASUREMENT IN THE PREVIOUS PERIOD

LAWRENCE LIVERMORE - P-EFFECTIVE
1ST - 4TH QUARTERS 1991

The graph displays the ratio of Measured/Accepted for three methods over time. The y-axis represents the ratio, ranging from 0.980 to 1.020. The x-axis represents the date, from 21-Feb-91 to 23-Dec-91. The three methods are represented by different line styles: solid, dashed, and dotted. Each data point includes a vertical error bar indicating uncertainty.

Date	Solid Line (Measured/Accepted)	Dashed Line (Measured/Accepted)	Dotted Line (Measured/Accepted)
21-Feb-91	0.998	0.998	0.998
21-Feb-91	0.998	0.998	0.998
21-Feb-91	0.998	0.998	0.998
25-Feb-91	0.998	0.998	0.998
27-Feb-91	0.998	0.998	0.998
4-Mar-91	0.998	0.998	0.998
7-Mar-91	0.998	0.998	0.998
15-Mar-91	0.998	0.998	0.998
22-Mar-91	0.998	0.998	0.998
26-Mar-91	0.998	0.998	0.998
3-Apr-91	0.998	0.998	0.998
24-Apr-91	0.998	0.998	0.998
1-May-91	0.998	0.998	0.998
8-May-91	0.998	0.998	0.998
15-May-91	0.998	0.998	0.998
29-May-91	0.998	0.998	0.998
5-Jun-91	0.998	0.998	0.998
27-Jun-91	0.998	0.998	0.998
7-Aug-91	0.998	0.998	0.998
14-Aug-91	0.998	0.998	0.998
30-Aug-91	0.998	0.998	0.998
4-Sep-91	0.998	0.998	0.998
18-Sep-91	0.998	0.998	0.998
25-Sep-91	0.998	0.998	0.998
25-Sep-91	0.998	0.998	0.998
2-Oct-91	0.998	0.998	0.998
4-Oct-91	0.998	0.998	0.998
9-Oct-91	0.998	0.998	0.998
9-Oct-91	0.998	0.998	0.998
16-Oct-91	0.998	0.998	0.998
23-Oct-91	0.998	0.998	0.998
30-Oct-91	0.998	0.998	0.998
30-Oct-91	0.998	0.998	0.998
6-Nov-91	0.998	0.998	0.998
12-Nov-91	0.998	0.998	0.998
18-Nov-91	0.998	0.998	0.998
27-Nov-91	0.998	0.998	0.998
3-Dec-91	0.998	0.998	0.998
10-Dec-91	0.998	0.998	0.998
18-Dec-91	0.998	0.998	0.998
23-Dec-91	0.998	0.998	0.998
23-Dec-91	0.998	0.998	0.998

Date _____

EG&G MOUND - P-EFFECTIVE 1ST - 4TH QUARTERS 1991

WESTINGHOUSE HANFORD - P-EFFECTIVE
1ST - 4TH QUARTERS 1991

EG&C ROCKY FLATS - ANALYTICAL LAB.
P-EFFECTIVE - 3RD - 4TH QUARTERS 1991

P-EFFECTIVE DATA
4TH QUARTER 1991

RFP - CSL

NO DATA REPORTED

LLNL

#	Date Measured	Instr. ID	P-eff (mw/g)	Uncert. 1 STD	Accepted P-eff	Ratio M/A	mW/g Error	Percent Error
1	9-Oct-91	1	2.4755	0.10%	2.4829	0.997	-0.0074	-0.30%
2	21-Oct-91	1	2.4750	0.10%	2.4833	0.997	-0.0082	-0.33%
3	30-Oct-91	1	2.4774	0.09%	2.4835	0.998	-0.0061	-0.25%
4	11-Nov-91	1	2.4791	0.08%	2.4839	0.998	-0.0048	-0.19%
5	14-Nov-91	1	2.4808	0.09%	2.4839	0.999	-0.0032	-0.13%
6	14-Nov-91	1	2.4793	0.09%	2.4839	0.998	-0.0046	-0.19%
7	18-Nov-91	1	2.4807	0.08%	2.4841	0.999	-0.0034	-0.14%
8	19-Nov-91	1	2.4832	0.09%	2.4841	1.000	-0.0009	-0.04%
9	20-Nov-91	1	2.4820	0.08%	2.4841	0.999	-0.0021	-0.09%
10	21-Nov-91	1	2.4771	0.08%	2.4841	0.997	-0.0070	-0.28%
11	25-Nov-91	1	2.4785	0.07%	2.4843	0.998	-0.0057	-0.23%
12	10-Dec-91	1	2.4821	0.08%	2.4847	0.999	-0.0026	-0.10%

LANL

#	Date Measured	Instr. ID	P-eff (mw/g)	Uncert. 1 STD	Accepted P-eff	Ratio M/A	mW/g Error	Percent Error
1	2-Oct-91	F6	2.4830	0.36%	2.4827	1.000	0.0003	0.01%
2	4-Oct-91	F5	2.4810	0.30%	2.4828	0.999	-0.0018	-0.07%
3	9-Oct-91	F5	2.4760	0.33%	2.4829	0.997	-0.0069	-0.28%
4	9-Oct-91	F6	2.4800	0.38%	2.4829	0.999	-0.0029	-0.12%
5	16-Oct-91	F6	2.4870	0.35%	2.4831	1.002	0.0039	0.16%
6	23-Oct-91	F5	2.4760	0.31%	2.4833	0.997	-0.0073	-0.29%
7	30-Oct-91	F5	2.4890	0.30%	2.4835	1.002	0.0055	0.22%
8	30-Oct-91	F6	2.4950	0.36%	2.4835	1.005	0.0115	0.46%
9	6-Nov-91	F5	2.4930	0.29%	2.4837	1.004	0.0093	0.37%
10	12-Nov-91	F5	2.4870	0.31%	2.4839	1.001	0.0031	0.13%
11	18-Nov-91	F6	2.4890	0.37%	2.4841	1.002	0.0049	0.20%
12	27-Nov-91	F6	2.4700	0.36%	2.4843	0.994	-0.0143	-0.58%
13	3-Dec-91	F5	2.4830	0.36%	2.4845	0.999	-0.0015	-0.06%
14	10-Dec-91	F6	2.4710	0.36%	2.4847	0.994	-0.0137	-0.55%
15	18-Dec-91	F5	2.4870	0.30%	2.4849	1.001	0.0021	0.08%
16	23-Dec-91	F5	2.4720	0.38%	2.4851	0.995	-0.0131	-0.53%
17	23-Dec-91	F6	2.4760	0.39%	2.4851	0.996	-0.0091	-0.36%

P-EFFECTIVE DATA
4TH QUARTER 1991

EG&G MOUND

#	Date Measured	Instr. ID	P-eff (mw/g)	Uncert. 1 STD	Accepted P-eff	Ratio M/A	mW/g Error	Percent Error
1	7-Oct-91	GENIE2	2.4861	0.21%	2.4814	1.002	0.0047	0.19%
2	8-Oct-91	GENIE2	2.4795	0.19%	2.4815	0.999	-0.0020	-0.08%
3	24-Oct-91	GENIE2	2.4811	0.18%	2.4819	1.000	-0.0008	-0.03%
4	24-Oct-91	GENIE2	2.4874	0.20%	2.4819	1.002	0.0055	0.22%
5	28-Oct-91	GENIE2	2.48	0.21%	2.4820	0.999	-0.0020	-0.08%
6	28-Oct-91	GENIE2	2.4907	0.19%	2.4820	1.003	0.0087	0.35%
7	5-Nov-91	GENIE2	2.4901	0.18%	2.4823	1.003	0.0078	0.32%
8	14-Nov-91	GENIE2	2.4833	0.18%	2.4825	1.000	0.0008	0.03%
9	15-Nov-91	GENIE2	2.4909	0.20%	2.4826	1.003	0.0083	0.34%
10	15-Nov-91	GENIE2	2.4831	0.20%	2.4826	1.000	0.0005	0.02%
11	18-Nov-91	GENIE2	2.4865	0.19%	2.4826	1.002	0.0039	0.16%
12	5-Dec-91	GENIE2	2.4803	0.18%	2.4831	0.999	-0.0028	-0.11%
13	5-Dec-91	GENIE2	2.4839	0.19%	2.4831	1.000	0.0008	0.03%
14	6-Dec-91	GENIE2	2.4884	0.17%	2.4832	1.002	0.0052	0.21%
15	6-Dec-91	GENIE2	2.4825	0.19%	2.4832	1.000	-0.0007	-0.03%
16	6-Dec-91	GENIE2	2.4808	0.18%	2.4832	0.999	-0.0024	-0.09%
17	6-Dec-91	GENIE2	2.4894	0.19%	2.4832	1.003	0.0062	0.25%
18	7-Dec-91	GENIE2	2.4778	0.20%	2.4832	0.998	-0.0054	-0.22%

HANFORD

#	Date Measured	Instr. ID	P-eff (mw/g)	Uncert. 1 STD	Accepted P-eff	Ratio M/A	mW/g Error	Percent Error
1	14-Oct-91	1985	2.4777	0.11%	2.4823	0.998	-0.0046	-0.18%
2	14-Oct-91	2424	2.4851	0.10%	2.4823	1.001	0.0028	0.11%
3	15-Oct-91	2026	2.4908	0.10%	2.4823	1.003	0.0085	0.34%
4	21-Oct-91	1985	2.4852	0.11%	2.4825	1.001	0.0027	0.11%
5	22-Oct-91	2026	2.4879	0.10%	2.4825	1.002	0.0054	0.22%
6	22-Oct-91	2424	2.4839	0.10%	2.4825	1.001	0.0014	0.06%
7	28-Oct-91	2026	2.4831	0.11%	2.4827	1.000	0.0004	0.02%
8	28-Oct-91	2424	2.4843	0.10%	2.4827	1.001	0.0016	0.07%
9	7-Nov-91	2424	2.4864	0.09%	2.4830	1.001	0.0034	0.14%
10	11-Nov-91	2424	2.4834	0.10%	2.4831	1.000	0.0003	0.01%
11	14-Nov-91	2026	2.4863	0.10%	2.4832	1.001	0.0031	0.13%
12	15-Nov-91	1985	2.4775	0.11%	2.4832	0.998	-0.0057	-0.23%
13	19-Nov-91	1985	2.4858	0.10%	2.4833	1.001	0.0025	0.10%
14	19-Nov-91	2424	2.4894	0.10%	2.4833	1.002	0.0061	0.25%
15	20-Nov-91	2026	2.4872	0.10%	2.4833	1.002	0.0039	0.16%
16	25-Nov-91	2026	2.4856	0.10%	2.4835	1.001	0.0021	0.09%
17	25-Nov-91	1985	2.4831	0.11%	2.4835	1.000	-0.0004	-0.02%
18	26-Nov-91	2424	2.4867	0.10%	2.4835	1.001	0.0032	0.13%
19	2-Dec-91	2026	2.4914	0.11%	2.4837	1.003	0.0077	0.31%
20	2-Dec-91	2424	2.4807	0.11%	2.4837	0.999	-0.0030	-0.12%
21	5-Dec-91	1985	2.4855	0.11%	2.4838	1.001	0.0017	0.07%
22	9-Dec-91	2424	2.4839	0.10%	2.4839	1.000	0.0000	0.00%
23	16-Dec-91	2424	2.4879	0.10%	2.4841	1.002	0.0038	0.15%

**P-EFFECTIVE DATA
4TH QUARTER 1991**

RFP - ANAL. LAB.

#	Date Measured	Instr. ID	P-eff (mw/g)	Uncert. 1 STD	Accepted P-eff	Ratio M/A	mW/g Error	Percent Error
1	9-Oct-91	SYS1	2.4917	0.18%	2.4815	1.004	0.0102	0.41%
2	21-Oct-91	SYS1	2.4901	0.27%	2.4818	1.003	0.0083	0.33%
3	22-Oct-91	SYS2	2.4795	0.21%	2.4819	0.999	-0.0024	-0.10%
4	23-Oct-91	SYS1	2.4911	0.26%	2.4819	1.004	0.0092	0.37%
5	24-Oct-91	SYS1	2.4843	0.27%	2.4819	1.001	0.0024	0.10%
6	24-Oct-91	SYS2	2.4920	0.23%	2.4819	1.004	0.0101	0.41%
7	29-Oct-91	SYS1	2.4767	0.42%	2.4821	0.998	-0.0054	-0.22%
8	29-Oct-91	SYS2	2.4733	0.35%	2.4821	0.996	-0.0088	-0.35%
9	1-Nov-91	SYS1	2.5054	0.49%	2.4822	1.009	0.0232	0.94%
10	1-Nov-91	SYS2	2.4754	0.35%	2.4822	0.997	-0.0068	-0.27%
11	5-Nov-91	SYS1	2.4720	0.46%	2.4823	0.996	-0.0103	-0.41%
12	5-Nov-91	SYS2	2.4722	0.41%	2.4823	0.996	-0.0101	-0.41%
13	8-Nov-91	SYS1	2.4751	0.37%	2.4824	0.997	-0.0073	-0.29%
14	11-Nov-91	SYS1	2.4934	0.35%	2.4824	1.004	0.0110	0.44%
15	11-Nov-91	SYS2	2.4778	0.41%	2.4824	0.998	-0.0046	-0.19%
16	13-Nov-91	SYS1	2.4939	0.43%	2.4825	1.005	0.0114	0.46%
17	13-Nov-91	SYS1	2.4828	0.43%	2.4825	1.000	0.0003	0.01%
18	13-Nov-91	SYS2	2.4909	0.36%	2.4825	1.003	0.0084	0.34%
19	15-Nov-91	SYS1	2.4810	0.40%	2.4826	0.999	-0.0016	-0.06%
20	15-Nov-91	SYS2	2.4760	0.39%	2.4826	0.997	-0.0066	-0.26%
21	18-Nov-91	SYS1	2.4818	0.37%	2.4826	1.000	-0.0008	-0.03%
22	18-Nov-91	SYS2	2.4882	0.35%	2.4826	1.002	0.0056	0.22%
23	22-Nov-91	SYS1	2.4743	0.47%	2.4828	0.997	-0.0085	-0.34%
24	22-Nov-91	SYS2	2.4862	0.40%	2.4828	1.001	0.0034	0.14%
25	25-Nov-91	SYS1	2.4850	0.39%	2.4828	1.001	0.0022	0.09%
26	25-Nov-91	SYS2	2.4871	0.38%	2.4828	1.002	0.0043	0.17%
27	27-Nov-91	SYS1	2.4707	0.54%	2.4829	0.995	-0.0122	-0.49%
28	27-Nov-91	SYS2	2.4843	0.29%	2.4829	1.001	0.0014	0.06%
29	2-Dec-91	SYS1	2.4802	0.40%	2.4830	0.999	-0.0028	-0.11%
30	3-Dec-91	SYS1	2.4979	0.38%	2.4831	1.006	0.0148	0.60%
31	3-Dec-91	SYS2	2.4929	0.33%	2.4831	1.004	0.0098	0.40%
32	6-Dec-91	SYS2	2.4889	0.33%	2.4832	1.002	0.0057	0.23%
33	6-Dec-91	SYS1	2.4947	0.40%	2.4832	1.005	0.0115	0.46%
34	9-Dec-91	SYS1	2.4824	0.40%	2.4832	1.000	-0.0008	-0.03%
35	9-Dec-91	SYS2	2.4784	0.37%	2.4832	0.998	-0.0048	-0.20%
36	12-Dec-91	SYS1	2.4685	0.40%	2.4833	0.994	-0.0148	-0.60%
37	12-Dec-91	SYS2	2.4936	0.44%	2.4833	1.004	0.0103	0.41%
38	14-Dec-91	SYS1	2.4833	0.40%	2.4834	1.000	-0.0001	0.00%
39	16-Dec-91	SYS1	2.4764	0.43%	2.4834	0.997	-0.0070	-0.28%
40	16-Dec-91	SYS2	2.4909	0.38%	2.4834	1.003	0.0075	0.30%
41	18-Dec-91	SYS1	2.4910	0.38%	2.4835	1.003	0.0075	0.30%
42	18-Dec-91	SYS2	2.4853	0.43%	2.4835	1.001	0.0018	0.07%
43	18-Dec-91	SYS1	2.4728	0.37%	2.4835	0.996	-0.0107	-0.43%
44	18-Dec-91	SYS2	2.4906	0.43%	2.4835	1.003	0.0071	0.29%
45	21-Dec-91	SYS1	2.4893	0.44%	2.4836	1.002	0.0057	0.23%

**SAVANNAH RIVER
NO DATA REPORTED**

RESULTS OF ANALYSIS OF 238-Pu/239-Pu DATA

	REPORTING LABORATORY						
	CSL	LLNL	LANL	MOUND	WHO	RFP	
Mean Error (ppm)	****	0	4	4	2	4	****
Std. Dev. (ppm)	****	1.83	11.96	4.48	5.22	15.60	****
Unc. in Mean (ppm)	****	0.79	1.67	1.46	0.75	2.23	****
Mean Error (%)	****	-0.25%	3.77%	4.07%	2.50%	3.64%	****
Std. Dev. (%)	****	1.86%	12.10%	4.53%	5.28%	15.79%	****
Unc. in Mean (%)	****	0.80%	1.67%	1.42%	0.75%	2.29%	****
DIFFERENCE FROM LAST PERIOD							
Diff. in Mean Error (ppm)	****	0	-7	-2	-1	-4	****
Diff. in Std. Dev. (ppm)	****	-0.53	3.92	-1.43	-0.18	2.50	****
Diff. in Mean Error (%)	****	0.15%	-7.45%	-1.62%	-0.11%	-4.92%	****
Diff. in Std. Dev. (%)	****	-0.52%	3.97%	-1.44%	-0.18%	2.55%	****
Number of Data Points	0	12	17	18	23	45	0

* NO DATA REPORTED FOR THIS MEASUREMENT IN THE PREVIOUS PERIOD

LAWRENCE LIVERMORE - 238-PU/239-PU
1ST - 4TH QUARTERS 1991

1ST - 4TH QUARTERS 1991

EG&G MOUND - 238-PU/239-PU
1ST - 4TH QUARTERS 1991

WESTINGHOUSE HANFORD - 238-PU/239-PU
1ST - 4TH QUARTERS 1991

EC&C ROCKY FLATS - ANALYTICAL LAB.
238-PU/239-PU - 3RD - 4TH QUARTERS 1991

238-Pu/239-Pu DATA
4TH QUARTER 1991

RFP - CSL

NO DATA REPORTED

LLNL

#	Date Measured	Instr. ID	238/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	9-Oct-91	1	98	3.12%	99	0.995	-1	-0.55%
2	21-Oct-91	1	98	3.15%	99	0.995	-1	-0.55%
3	30-Oct-91	1	96	3.07%	99	0.974	-3	-2.63%
4	11-Nov-91	1	98	2.60%	99	0.996	0	-0.43%
5	14-Nov-91	1	98	2.86%	99	0.996	0	-0.39%
6	14-Nov-91	1	98	2.95%	99	0.996	0	-0.41%
7	18-Nov-91	1	102	2.52%	99	1.028	3	2.83%
8	19-Nov-91	1	101	2.74%	99	1.018	2	1.81%
9	20-Nov-91	1	101	2.55%	99	1.018	2	1.77%
10	21-Nov-91	1	95	2.54%	99	0.963	-4	-3.66%
11	25-Nov-91	1	97	2.34%	99	0.985	-1	-1.50%
12	10-Dec-91	1	99	2.72%	99	1.007	1	0.74%

LANL

#	Date Measured	Instr. ID	238/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	2-Oct-91	F6	86	8.17%	99	0.867	-13	-13.32%
2	4-Oct-91	F5	107	5.76%	99	1.082	8	8.19%
3	9-Oct-91	F5	107	6.02%	99	1.079	8	7.90%
4	9-Oct-91	F6	107	7.45%	99	1.081	8	8.06%
5	16-Oct-91	F6	107	6.79%	99	1.083	8	8.28%
6	23-Oct-91	F5	96	6.61%	99	0.974	-3	-2.63%
7	30-Oct-91	F5	118	5.20%	99	1.190	19	18.99%
8	30-Oct-91	F6	128	5.66%	99	1.298	29	29.77%
9	6-Nov-91	F5	107	5.63%	99	1.084	8	8.44%
10	12-Nov-91	F5	96	6.31%	99	0.976	-2	-2.41%
11	18-Nov-91	F6	107	7.06%	99	1.083	8	8.30%
12	27-Nov-91	F6	85	8.58%	99	0.865	-13	-13.48%
13	3-Dec-91	F5	107	6.96%	99	1.084	8	8.36%
14	10-Dec-91	F6	107	6.70%	99	1.080	8	8.04%
15	18-Dec-91	F5	107	5.71%	99	1.083	8	8.34%
16	23-Dec-91	F5	85	8.40%	99	0.866	-13	-13.41%
17	23-Dec-91	F6	86	8.60%	99	0.866	-13	-13.36%

238-Pu/239-Pu DATA
4TH QUARTER 1991

EG&G MOUND

#	Date Measured	Instr. ID	238/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	7-Oct-91	GENIE2	101	6.98%	99	1.021	2	2.13%
2	8-Oct-91	GENIE2	99	5.95%	99	1.001	0	0.11%
3	24-Oct-91	GENIE2	100	5.41%	99	1.012	1	1.15%
4	24-Oct-91	GENIE2	110	6.41%	99	1.113	11	11.27%
5	28-Oct-91	GENIE2	103	6.21%	99	1.042	4	4.20%
6	28-Oct-91	GENIE2	108	5.43%	99	1.093	9	9.26%
7	5-Nov-91	GENIE2	109	5.40%	99	1.103	10	10.29%
8	14-Nov-91	GENIE2	100	5.87%	99	1.012	1	1.20%
9	15-Nov-91	GENIE2	106	6.41%	99	1.073	7	7.27%
10	15-Nov-91	GENIE2	102	5.97%	99	1.032	3	3.23%
11	18-Nov-91	GENIE2	106	6.16%	99	1.073	7	7.28%
12	5-Dec-91	GENIE2	103	5.37%	99	1.043	4	4.28%
13	5-Dec-91	GENIE2	97	5.89%	99	0.982	-2	-1.79%
14	6-Dec-91	GENIE2	104	4.92%	99	1.053	5	5.30%
15	6-Dec-91	GENIE2	104	6.57%	99	1.053	5	5.30%
16	6-Dec-91	GENIE2	95	5.86%	99	0.962	-4	-3.81%
17	6-Dec-91	GENIE2	108	6.15%	99	1.093	9	9.35%
18	7-Dec-91	GENIE2	96	6.79%	99	0.972	-3	-2.80%

HANFORD

#	Date Measured	Instr. ID	238/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	14-Oct-91	1985	91	4.07%	99	0.920	-8	-8.04%
2	14-Oct-91	2424	102	3.51%	99	1.028	3	2.82%
3	15-Oct-91	2026	110	3.35%	99	1.115	11	11.52%
4	21-Oct-91	1985	102	3.76%	99	1.028	3	2.84%
5	22-Oct-91	2026	110	3.26%	99	1.115	11	11.47%
6	22-Oct-91	2424	100	3.62%	99	1.007	1	0.68%
7	28-Oct-91	2026	100	3.75%	99	1.007	1	0.69%
8	28-Oct-91	2424	100	3.41%	99	1.007	1	0.68%
9	7-Nov-91	2424	102	3.23%	99	1.029	3	2.88%
10	11-Nov-91	2424	103	3.43%	99	1.039	4	3.91%
11	14-Nov-91	2026	105	3.31%	99	1.061	6	6.13%
12	15-Nov-91	1985	94	4.17%	99	0.952	-5	-4.76%
13	19-Nov-91	1985	100	3.52%	99	1.007	1	0.73%
14	19-Nov-91	2424	107	3.09%	99	1.083	8	8.33%
15	20-Nov-91	2026	106	3.27%	99	1.072	7	7.23%
16	25-Nov-91	2026	102	3.39%	99	1.029	3	2.92%
17	25-Nov-91	1985	96	4.10%	99	0.975	-2	-2.51%
18	26-Nov-91	2424	104	3.44%	99	1.051	5	5.06%
19	2-Dec-91	2026	109	3.44%	99	1.105	10	10.55%
20	2-Dec-91	2424	93	4.17%	99	0.942	-6	-5.77%
21	5-Dec-91	1985	101	3.75%	99	1.018	2	1.84%
22	9-Dec-91	2424	95	3.80%	99	0.964	-4	-3.55%
23	16-Dec-91	2424	101	3.41%	99	1.019	2	1.89%

238-Pu/239-Pu DATA
4TH QUARTER 1991

RFP - ANAL. LAB.

#	Date Measured	Instr. ID	238/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	9-Oct-91	SYS1	116	6.70%	99	1.173	17	17.30%
2	21-Oct-91	SYS1	107	10.56%	99	1.082	8	8.23%
3	22-Oct-91	SYS2	101	7.68%	99	1.022	2	2.16%
4	23-Oct-91	SYS1	112	9.73%	99	1.133	13	13.29%
5	24-Oct-91	SYS1	107	10.58%	99	1.082	8	8.23%
6	24-Oct-91	SYS2	102	8.32%	99	1.032	3	3.18%
7	29-Oct-91	SYS1	92	19.27%	99	0.931	-7	-6.93%
8	29-Oct-91	SYS2	96	13.80%	99	0.971	-3	-2.88%
9	1-Nov-91	SYS1	127	15.02%	99	1.285	28	28.49%
10	1-Nov-91	SYS2	92	14.47%	99	0.931	-7	-6.92%
11	5-Nov-91	SYS1	82	20.15%	99	0.830	-17	-17.03%
12	5-Nov-91	SYS2	76	17.87%	99	0.769	-23	-23.10%
13	8-Nov-91	SYS1	83	18.76%	99	0.840	-16	-16.02%
14	11-Nov-91	SYS1	123	12.02%	99	1.245	24	24.47%
15	11-Nov-91	SYS2	99	15.18%	99	1.002	0	0.18%
16	13-Nov-91	SYS1	122	15.40%	99	1.235	23	23.46%
17	13-Nov-91	SYS1	101	18.37%	99	1.022	2	2.21%
18	13-Nov-91	SYS2	124	10.04%	99	1.255	25	25.48%
19	15-Nov-91	SYS1	103	16.27%	99	1.042	4	4.24%
20	15-Nov-91	SYS2	93	13.98%	99	0.941	-6	-5.88%
21	18-Nov-91	SYS1	101	15.24%	99	1.022	2	2.22%
22	18-Nov-91	SYS2	111	10.49%	99	1.123	12	12.34%
23	22-Nov-91	SYS1	74	23.13%	99	0.749	-25	-25.10%
24	22-Nov-91	SYS2	104	12.17%	99	1.053	5	5.27%
25	25-Nov-91	SYS1	96	17.48%	99	0.972	-3	-2.83%
26	25-Nov-91	SYS2	70	18.53%	99	0.709	-29	-29.14%
27	27-Nov-91	SYS1	76	31.75%	99	0.769	-23	-23.07%
28	27-Nov-91	SYS2	92	10.96%	99	0.931	-7	-6.87%
29	2-Dec-91	SYS1	106	15.92%	99	1.073	7	7.31%
30	3-Dec-91	SYS1	125	12.97%	99	1.266	26	26.55%
31	3-Dec-91	SYS2	118	10.23%	99	1.195	19	19.46%
32	6-Dec-91	SYS2	116	10.50%	99	1.174	17	17.45%
33	6-Dec-91	SYS1	129	13.25%	99	1.306	30	30.61%
34	9-Dec-91	SYS1	114	14.11%	99	1.154	15	15.43%
35	9-Dec-91	SYS2	108	13.36%	99	1.094	9	9.35%
36	12-Dec-91	SYS1	94	18.09%	99	0.952	-5	-4.82%
37	12-Dec-91	SYS2	129	12.14%	99	1.306	30	30.63%
38	14-Dec-91	SYS1	96	17.57%	99	0.972	-3	-2.79%
39	16-Dec-91	SYS1	89	17.90%	99	0.901	-10	-9.87%
40	16-Dec-91	SYS2	107	10.81%	99	1.084	8	8.36%
41	18-Dec-91	SYS1	80	19.81%	99	0.810	-19	-18.98%
42	18-Dec-91	SYS2	104	11.23%	99	1.053	5	5.32%
43	18-Dec-91	SYS1	85	18.28%	99	0.861	-14	-13.92%
44	18-Dec-91	SYS2	113	14.38%	99	1.144	14	14.44%
45	21-Dec-91	SYS1	113	16.78%	99	1.144	14	14.45%

SAVANNAH RIVER
NO DATA REPORTED

RESULTS OF ANALYSIS OF 240-Pu/239-Pu DATA

REPORTING LABORATORY

	CSL	LLNL	LANL	MOUND	WHO	RFP	SRS
Mean Error (ppm)	****	45	85	91	719	-183	****
Std. Dev. (ppm)	****	373.01	1374.87	668.51	272.57	1153.92	****
Unc. in Mean (ppm)	****	71.63	280.02	175.13	65.70	173.38	****
Mean Error (%)	****	0.07%	0.14%	0.15%	1.16%	-0.29%	****
Std. Dev. (%)	****	0.60%	2.21%	1.08%	0.44%	1.86%	****
Unc. in Mean (%)	****	0.12%	0.45%	0.28%	0.10%	0.28%	****

DIFFERENCE FROM LAST PERIOD

Diff. in Mean Error (ppm)	****	353	-210	144	45	-1190	****
Diff. in Std. Dev. (ppm)	****	287.62	82.65	-119.12	-159.06	251.84	****
Diff. in Mean Error (%)	****	0.57%	-0.33%	0.24%	0.08%	-1.91%	****
Diff. in Std. Dev. (%)	****	0.46%	0.13%	-0.19%	-0.25%	0.41%	****
Number of Data Points	0	12	17	18	23	45	0

* NO DATA REPORTED FOR THIS MEASUREMENT IN THE PREVIOUS PERIOD

LAWRENCE LIVERMORE - 240-PU/239-PU
1ST - 4TH QUARTERS 1991

LOS ALAMOS - 240-PU/239-PU
1ST - 4TH QUARTERS 1991

EG&G MOUND - 240-PU/239-PU
1ST - 4TH QUARTERS 1991

WESTINGHOUSE HANFORD - 240-PJ/239-PJ
1ST - 4TH QUARTERS 1991

EG&G ROCKY FLATS - ANALYTICAL LAB.
240-PU/239-PU - 3RD - 4TH QUARTERS 1991

240-Pu/239-Pu DATA
4TH QUARTER 1991

RFP - CSL

NO DATA REPORTED

LLNL

#	Date Measured	Instr. ID	240/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	9-Oct-91	1	61702	0.45%	62155	0.993	-453	-0.73%
2	21-Oct-91	1	61427	0.46%	62155	0.988	-728	-1.17%
3	30-Oct-91	1	62099	0.44%	62155	0.999	-55	-0.09%
4	11-Nov-91	1	62249	0.38%	62154	1.002	94	0.15%
5	14-Nov-91	1	62582	0.40%	62154	1.007	427	0.69%
6	14-Nov-91	1	62330	0.43%	62154	1.003	175	0.28%
7	18-Nov-91	1	62193	0.37%	62154	1.001	38	0.06%
8	19-Nov-91	1	62793	0.39%	62154	1.010	638	1.03%
9	20-Nov-91	1	62369	0.37%	62154	1.003	215	0.35%
10	21-Nov-91	1	62155	0.35%	62154	1.000	1	0.00%
11	25-Nov-91	1	61997	0.34%	62154	0.997	-157	-0.25%
12	10-Dec-91	1	62493	0.39%	62154	1.005	339	0.55%

LANL

#	Date Measured	Instr. ID	240/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	2-Oct-91	F6	64327	1.91%	62155	1.035	2172	3.49%
2	4-Oct-91	F5	62645	1.61%	62155	1.008	490	0.79%
3	9-Oct-91	F5	59732	1.82%	62155	0.961	-2423	-3.90%
4	9-Oct-91	F6	61546	2.06%	62155	0.990	-609	-0.98%
5	16-Oct-91	F6	63299	1.86%	62155	1.018	1144	1.84%
6	23-Oct-91	F5	62238	1.70%	62155	1.001	83	0.13%
7	30-Oct-91	F5	61882	1.63%	62155	0.996	-273	-0.44%
8	30-Oct-91	F6	61621	2.00%	62155	0.991	-534	-0.86%
9	6-Nov-91	F5	64328	1.54%	62155	1.035	2173	3.50%
10	12-Nov-91	F5	64124	1.62%	62154	1.032	1969	3.17%
11	18-Nov-91	F6	62746	1.99%	62154	1.010	592	0.95%
12	27-Nov-91	F6	61112	1.98%	62154	0.983	-1043	-1.68%
13	3-Dec-91	F5	62959	1.92%	62154	1.013	805	1.29%
14	10-Dec-91	F6	59720	2.00%	62154	0.961	-2434	-3.92%
15	18-Dec-91	F5	62529	1.64%	62154	1.006	375	0.60%
16	23-Dec-91	F5	61314	2.07%	62154	0.986	-840	-1.35%
17	23-Dec-91	F6	61955	2.09%	62154	0.997	-199	-0.32%

**240-Pu/239-Pu DATA
4TH QUARTER 1991**

EG&G MOUND

#	Date Measured	Instr. ID	240/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	7-Oct-91	GENIE2	63074	1.24%	62155	1.015	919	1.48%
2	8-Oct-91	GENIE2	62235	1.28%	62155	1.001	80	0.13%
3	24-Oct-91	GENIE2	62180	1.23%	62155	1.000	25	0.04%
4	24-Oct-91	GENIE2	62236	1.13%	62155	1.001	81	0.13%
5	28-Oct-91	GENIE2	61285	1.36%	62155	0.986	-870	-1.40%
6	28-Oct-91	GENIE2	63130	1.18%	62155	1.016	975	1.57%
7	5-Nov-91	GENIE2	62636	1.10%	62155	1.008	481	0.77%
8	14-Nov-91	GENIE2	62057	1.14%	62154	0.998	-97	-0.16%
9	15-Nov-91	GENIE2	63305	1.22%	62154	1.019	1151	1.85%
10	15-Nov-91	GENIE2	61816	1.27%	62154	0.995	-338	-0.54%
11	18-Nov-91	GENIE2	62256	1.06%	62154	1.002	102	0.16%
12	5-Dec-91	GENIE2	60929	1.23%	62154	0.980	-1225	-1.97%
13	5-Dec-91	GENIE2	62568	1.22%	62154	1.007	414	0.67%
14	6-Dec-91	GENIE2	62746	1.18%	62154	1.010	592	0.95%
15	6-Dec-91	GENIE2	61724	1.12%	62154	0.993	-430	-0.69%
16	6-Dec-91	GENIE2	62243	1.21%	62154	1.001	89	0.14%
17	6-Dec-91	GENIE2	62777	1.06%	62154	1.010	623	1.00%
18	7-Dec-91	GENIE2	61213	1.22%	62154	0.985	-941	-1.51%

HANFORD

#	Date Measured	Instr. ID	240/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	14-Oct-91	1985	62519	0.51%	62155	1.006	365	0.59%
2	14-Oct-91	2424	62944	0.50%	62155	1.013	789	1.27%
3	15-Oct-91	2026	63295	0.50%	62155	1.018	1140	1.83%
4	21-Oct-91	1985	63026	0.53%	62155	1.014	872	1.40%
5	22-Oct-91	2026	62710	0.49%	62155	1.009	555	0.89%
6	22-Oct-91	2424	63007	0.51%	62155	1.014	853	1.37%
7	28-Oct-91	2026	63011	0.51%	62155	1.014	856	1.38%
8	28-Oct-91	2424	62866	0.48%	62155	1.011	712	1.15%
9	7-Nov-91	2424	63002	0.46%	62155	1.014	848	1.36%
10	11-Nov-91	2424	62360	0.50%	62154	1.003	206	0.33%
11	14-Nov-91	2026	62824	0.48%	62154	1.011	670	1.08%
12	15-Nov-91	1985	62139	0.55%	62154	1.000	-15	-0.02%
13	19-Nov-91	1985	62898	0.49%	62154	1.012	744	1.20%
14	19-Nov-91	2424	63126	0.47%	62154	1.016	971	1.56%
15	20-Nov-91	2026	62876	0.48%	62154	1.012	722	1.16%
16	25-Nov-91	2026	63029	0.48%	62154	1.014	874	1.41%
17	25-Nov-91	1985	62897	0.54%	62154	1.012	742	1.19%
18	26-Nov-91	2424	62710	0.51%	62154	1.009	556	0.89%
19	2-Dec-91	2026	63285	0.51%	62154	1.018	1131	1.82%
20	2-Dec-91	2424	62618	0.55%	62154	1.007	464	0.75%
21	5-Dec-91	1985	62837	0.52%	62154	1.011	683	1.10%
22	9-Dec-91	2424	63034	0.46%	62154	1.014	880	1.42%
23	16-Dec-91	2424	63073	0.49%	62154	1.015	919	1.48%

**240-Pu/239-Pu DATA
4TH QUARTER 1991**

RFP - ANAL. LAB.

#	Date Measured	Instr. ID	240/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	9-Oct-91	SYS1	62280	0.74%	62155	1.002	125	0.20%
2	21-Oct-91	SYS1	62615	1.02%	62155	1.007	460	0.74%
3	22-Oct-91	SYS2	61437	1.18%	62155	0.988	-718	-1.15%
4	23-Oct-91	SYS1	62689	1.02%	62155	1.009	534	0.86%
5	24-Oct-91	SYS1	61333	1.04%	62155	0.987	-822	-1.32%
6	24-Oct-91	SYS2	62910	1.22%	62155	1.012	755	1.22%
7	29-Oct-91	SYS1	61850	1.50%	62155	0.995	-305	-0.49%
8	29-Oct-91	SYS2	60849	1.79%	62155	0.979	-1306	-2.10%
9	1-Nov-91	SYS1	63092	2.47%	62155	1.015	937	1.51%
10	1-Nov-91	SYS2	61188	1.85%	62155	0.984	-967	-1.56%
11	5-Nov-91	SYS1	61473	2.66%	62155	0.989	-682	-1.10%
12	5-Nov-91	SYS2	62841	2.49%	62155	1.011	686	1.10%
13	8-Nov-91	SYS1	62582	1.45%	62155	1.007	427	0.69%
14	11-Nov-91	SYS1	61831	1.42%	62154	0.995	-323	-0.52%
15	11-Nov-91	SYS2	62201	2.22%	62154	1.001	47	0.07%
16	13-Nov-91	SYS1	61760	1.49%	62154	0.994	-394	-0.63%
17	13-Nov-91	SYS1	61983	1.48%	62154	0.997	-171	-0.28%
18	13-Nov-91	SYS2	61106	2.22%	62154	0.983	-1048	-1.69%
19	15-Nov-91	SYS1	61262	1.66%	62154	0.986	-892	-1.44%
20	15-Nov-91	SYS2	61284	2.37%	62154	0.986	-870	-1.40%
21	18-Nov-91	SYS1	61554	1.44%	62154	0.990	-600	-0.97%
22	18-Nov-91	SYS2	62130	2.23%	62154	1.000	-24	-0.04%
23	22-Nov-91	SYS1	62903	2.53%	62154	1.012	749	1.20%
24	22-Nov-91	SYS2	62005	2.64%	62154	0.998	-149	-0.24%
25	25-Nov-91	SYS1	62782	1.44%	62154	1.010	628	1.01%
26	25-Nov-91	SYS2	66588	2.14%	62154	1.071	4434	7.13%
27	27-Nov-91	SYS1	61967	1.49%	62154	0.997	-187	-0.30%
28	27-Nov-91	SYS2	63780	1.72%	62154	1.026	1626	2.62%
29	2-Dec-91	SYS1	60389	1.48%	62154	0.972	-1765	-2.84%
30	3-Dec-91	SYS1	62069	1.44%	62154	0.999	-85	-0.14%
31	3-Dec-91	SYS2	62173	1.79%	62154	1.000	19	0.03%
32	6-Dec-91	SYS2	61450	1.81%	62154	0.989	-704	-1.13%
33	6-Dec-91	SYS1	60715	1.48%	62154	0.977	-1439	-2.32%
34	9-Dec-91	SYS1	60283	1.89%	62154	0.970	-1871	-3.01%
35	9-Dec-91	SYS2	60073	1.85%	62154	0.967	-2081	-3.35%
36	12-Dec-91	SYS1	59790	1.51%	62154	0.962	-2364	-3.80%
37	12-Dec-91	SYS2	61207	2.63%	62154	0.985	-947	-1.52%
38	14-Dec-91	SYS1	62130	1.49%	62154	1.000	-24	-0.04%
39	16-Dec-91	SYS1	61752	2.27%	62154	0.994	-402	-0.65%
40	16-Dec-91	SYS2	63119	2.52%	62154	1.016	965	1.55%
41	18-Dec-91	SYS1	62264	1.45%	62154	1.002	110	0.18%
42	18-Dec-91	SYS2	63961	3.01%	62154	1.029	1807	2.91%
43	18-Dec-91	SYS1	61025	1.51%	62154	0.982	-1129	-1.82%
44	18-Dec-91	SYS2	62653	2.27%	62154	1.008	499	0.80%
45	21-Dec-91	SYS1	61404	1.53%	62154	0.988	-750	-1.21%

**SAVANNAH RIVER
NO DATA REPORTED**

RESULTS OF ANALYSIS OF 241-Pu/239-Pu DATA

REPORTING LABORATORY

	CSL	LLNL	LANL	MOUND	WHO	RFP	SRS

Mean Error (ppm)	****	0	4	-3	-6	6	****
Std. Dev. (ppm)	****	5.39	3.34	5.38	7.26	15.38	****
Unc. in Mean (ppm)	****	1.81	0.60	2.39	1.56	3.06	****
Mean Error (%)	****	-0.02%	0.18%	-0.16%	-0.30%	0.27%	****
Std. Dev. (%)	****	0.25%	0.16%	0.25%	0.34%	0.72%	****
Unc. in Mean (%)	****	0.08%	0.03%	0.11%	0.07%	0.14%	****

DIFFERENCE FROM LAST PERIOD

Diff. in Mean Error (ppm)	****	17	2	0	-2	-9	****
Diff. in Std. Dev. (ppm)	****	-0.58	-0.09	-1.94	-0.28	3.32	****
Diff. in Mean Error (%)	****	0.75%	0.08%	-0.03%	-0.11%	-0.44%	****
Diff. in Std. Dev. (%)	****	-0.02%	0.00%	-0.09%	-0.01%	0.16%	****
Number of Data Points	0	12	17	18	23	45	0

* NO DATA REPORTED FOR THIS MEASUREMENT IN THE PREVIOUS PERIOD

LAWRENCE LIVERMORE - 241-PU/239-PU
1ST - 4TH QUARTERS 1991

[illegible]

*EG&G MOUND - 241-PU/239-PU
1ST - 4TH QUARTERS 1991*

WESTINGHOUSE HANFORD - 241-PU/239-PU
1ST - 4TH QUARTERS 1991

EG&G ROCKY FLATS - ANALYTICAL LAB.
 241-PU/239-PU - 3RD - 4TH QUARTERS 1991

**241-Pu/239-Pu DATA
4TH QUARTER 1991**

RFP - CSL

NO DATA REPORTED

LLNL

#	Date Measured	Instr. ID	241/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	9-Oct-91	1	2154	0.33%	2162	0.996	-8	-0.38%
2	21-Oct-91	1	2152	0.34%	2158	0.997	-6	-0.29%
3	30-Oct-91	1	2154	0.32%	2156	0.999	-1	-0.06%
4	11-Nov-91	1	2148	0.28%	2152	0.998	-4	-0.18%
5	14-Nov-91	1	2155	0.30%	2151	1.002	4	0.18%
6	14-Nov-91	1	2149	0.30%	2151	0.999	-3	-0.14%
7	18-Nov-91	1	2147	0.27%	2150	0.999	-3	-0.14%
8	19-Nov-91	1	2152	0.29%	2150	1.001	2	0.07%
9	20-Nov-91	1	2157	0.27%	2150	1.003	7	0.34%
10	21-Nov-91	1	2149	0.26%	2149	1.000	0	-0.01%
11	25-Nov-91	1	2158	0.24%	2148	1.005	10	0.47%
12	10-Dec-91	1	2141	0.28%	2144	0.999	-3	-0.12%

LANL

#	Date Measured	Instr. ID	241/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	2-Oct-91	F6	2165	0.12%	2164	1.001	2	0.07%
2	4-Oct-91	F5	2166	0.11%	2163	1.001	3	0.14%
3	9-Oct-91	F5	2162	0.11%	2162	1.000	1	0.03%
4	9-Oct-91	F6	2161	0.12%	2162	1.000	-1	-0.02%
5	16-Oct-91	F6	2162	0.12%	2160	1.001	2	0.11%
6	23-Oct-91	F5	2165	0.11%	2158	1.003	8	0.35%
7	30-Oct-91	F5	2164	0.11%	2156	1.004	8	0.37%
8	30-Oct-91	F6	2161	0.12%	2156	1.002	5	0.24%
9	6-Nov-91	F5	2160	0.09%	2154	1.003	6	0.29%
10	12-Nov-91	F5	2162	0.14%	2152	1.005	10	0.45%
11	18-Nov-91	F6	2156	0.11%	2150	1.003	5	0.25%
12	27-Nov-91	F6	2150	0.12%	2148	1.001	3	0.12%
13	3-Dec-91	F5	2143	0.12%	2146	0.999	-3	-0.12%
14	10-Dec-91	F6	2150	0.09%	2144	1.003	6	0.26%
15	18-Dec-91	F5	2148	0.14%	2142	1.003	6	0.28%
16	23-Dec-91	F5	2144	0.11%	2140	1.002	4	0.18%
17	23-Dec-91	F6	2140	0.13%	2140	1.000	0	0.00%

**241-Pu/239-Pu DATA
4TH QUARTER 1991**

EG&G MOUND

#	Date Measured	Instr. ID	241/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	7-Oct-91	GENIE2	2164	0.51%	2162	1.001	2	0.08%
2	8-Oct-91	GENIE2	2158	0.46%	2162	0.998	-4	-0.18%
3	24-Oct-91	GENIE2	2150	0.44%	2157	0.997	-7	-0.34%
4	24-Oct-91	GENIE2	2155	0.52%	2157	0.999	-2	-0.11%
5	28-Oct-91	GENIE2	2151	0.45%	2156	0.998	-5	-0.25%
6	28-Oct-91	GENIE2	2156	0.43%	2156	1.000	0	-0.01%
7	5-Nov-91	GENIE2	2147	0.50%	2154	0.997	-7	-0.33%
8	14-Nov-91	GENIE2	2142	0.46%	2151	0.996	-9	-0.44%
9	15-Nov-91	GENIE2	2140	0.49%	2151	0.995	-11	-0.52%
10	15-Nov-91	GENIE2	2157	0.48%	2151	1.003	6	0.27%
11	18-Nov-91	GENIE2	2153	0.43%	2150	1.001	3	0.13%
12	5-Dec-91	GENIE2	2141	0.47%	2145	0.998	-4	-0.21%
13	5-Dec-91	GENIE2	2132	0.50%	2145	0.994	-13	-0.63%
14	6-Dec-91	GENIE2	2141	0.46%	2145	0.998	-4	-0.20%
15	6-Dec-91	GENIE2	2140	0.42%	2145	0.998	-5	-0.24%
16	6-Dec-91	GENIE2	2150	0.54%	2145	1.002	5	0.22%
17	6-Dec-91	GENIE2	2147	0.47%	2145	1.001	2	0.08%
18	7-Dec-91	GENIE2	2140	0.46%	2145	0.998	-5	-0.23%

HANFORD

#	Date Measured	Instr. ID	241/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	14-Oct-91	1985	2149	0.35%	2160	0.995	-12	-0.53%
2	14-Oct-91	2424	2159	0.35%	2160	0.999	-1	-0.05%
3	15-Oct-91	2026	2157	0.35%	2160	0.998	-3	-0.15%
4	21-Oct-91	1985	2148	0.36%	2158	0.995	-11	-0.49%
5	22-Oct-91	2026	2148	0.34%	2158	0.995	-10	-0.46%
6	22-Oct-91	2424	2151	0.36%	2158	0.997	-7	-0.33%
7	28-Oct-91	2026	2151	0.36%	2156	0.997	-5	-0.25%
8	28-Oct-91	2424	2154	0.34%	2156	0.999	-3	-0.12%
9	7-Nov-91	2424	2157	0.32%	2153	1.002	4	0.17%
10	11-Nov-91	2424	2134	0.35%	2152	0.991	-19	-0.87%
11	14-Nov-91	2026	2146	0.33%	2151	0.998	-5	-0.24%
12	15-Nov-91	1985	2137	0.37%	2151	0.994	-14	-0.64%
13	19-Nov-91	1985	2152	0.33%	2150	1.001	2	0.08%
14	19-Nov-91	2424	2141	0.33%	2150	0.996	-10	-0.44%
15	20-Nov-91	2026	2155	0.33%	2150	1.002	5	0.24%
16	25-Nov-91	2026	2149	0.33%	2148	1.000	0	0.02%
17	25-Nov-91	1985	2137	0.37%	2148	0.995	-11	-0.53%
18	26-Nov-91	2424	2145	0.36%	2148	0.999	-3	-0.14%
19	2-Dec-91	2026	2126	0.36%	2146	0.991	-20	-0.95%
20	2-Dec-91	2424	2133	0.39%	2146	0.994	-13	-0.62%
21	5-Dec-91	1985	2137	0.36%	2145	0.996	-9	-0.41%
22	9-Dec-91	2424	2135	0.36%	2144	0.996	-9	-0.44%
23	16-Dec-91	2424	2150	0.34%	2142	1.004	8	0.35%

241-Pu/239-Pu DATA
4TH QUARTER 1991

RFP - ANAL. LAB.

#	Date Measured	Instr. ID	241/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	9-Oct-91	SYS1	2168	0.47%	2162	1.003	6	0.29%
2	21-Oct-91	SYS1	2169	0.66%	2158	1.005	11	0.50%
3	22-Oct-91	SYS2	2161	0.46%	2158	1.001	3	0.14%
4	23-Oct-91	SYS1	2177	0.63%	2158	1.009	19	0.89%
5	24-Oct-91	SYS1	2157	0.67%	2157	1.000	0	-0.02%
6	24-Oct-91	SYS2	2170	0.54%	2157	1.006	13	0.58%
7	29-Oct-91	SYS1	2152	1.07%	2156	0.998	-4	-0.19%
8	29-Oct-91	SYS2	2195	0.78%	2156	1.018	39	1.81%
9	1-Nov-91	SYS1	2172	3.40%	2155	1.008	17	0.78%
10	1-Nov-91	SYS2	2162	0.79%	2155	1.003	7	0.32%
11	5-Nov-91	SYS1	2146	0.96%	2154	0.996	-8	-0.37%
12	5-Nov-91	SYS2	2132	0.74%	2154	0.990	-22	-1.02%
13	8-Nov-91	SYS1	2156	0.90%	2153	1.001	3	0.13%
14	11-Nov-91	SYS1	2158	0.87%	2152	1.003	6	0.26%
15	11-Nov-91	SYS2	2164	0.69%	2152	1.005	12	0.54%
16	13-Nov-91	SYS1	2172	1.09%	2152	1.009	20	0.94%
17	13-Nov-91	SYS1	2159	0.96%	2152	1.003	7	0.34%
18	13-Nov-91	SYS2	2153	0.74%	2152	1.001	1	0.06%
19	15-Nov-91	SYS1	2133	0.90%	2151	0.992	-18	-0.84%
20	15-Nov-91	SYS2	2170	0.72%	2151	1.009	19	0.88%
21	18-Nov-91	SYS1	2163	0.93%	2150	1.006	13	0.59%
22	18-Nov-91	SYS2	2154	0.69%	2150	1.002	4	0.17%
23	22-Nov-91	SYS1	2175	1.02%	2149	1.012	26	1.20%
24	22-Nov-91	SYS2	2156	0.77%	2149	1.003	7	0.32%
25	25-Nov-91	SYS1	2145	0.96%	2148	0.998	-3	-0.15%
26	25-Nov-91	SYS2	2128	0.77%	2148	0.991	-20	-0.95%
27	27-Nov-91	SYS1	2169	0.63%	2148	1.010	21	0.99%
28	27-Nov-91	SYS2	2162	0.81%	2148	1.007	14	0.66%
29	2-Dec-91	SYS1	2166	0.66%	2146	1.009	20	0.92%
30	3-Dec-91	SYS1	2168	0.61%	2146	1.010	22	1.02%
31	3-Dec-91	SYS2	2148	0.87%	2146	1.001	2	0.09%
32	6-Dec-91	SYS2	2131	0.91%	2145	0.993	-14	-0.66%
33	6-Dec-91	SYS1	2132	0.62%	2145	0.994	-13	-0.62%
34	9-Dec-91	SYS1	2146	0.91%	2144	1.001	2	0.08%
35	9-Dec-91	SYS2	2177	0.90%	2144	1.015	33	1.52%
36	12-Dec-91	SYS1	2154	0.67%	2143	1.005	11	0.49%
37	12-Dec-91	SYS2	2161	1.13%	2143	1.008	18	0.82%
38	14-Dec-91	SYS1	2155	0.67%	2143	1.006	12	0.56%
39	16-Dec-91	SYS1	2173	0.88%	2142	1.014	31	1.43%
40	16-Dec-91	SYS2	2124	0.69%	2142	0.991	-18	-0.86%
41	18-Dec-91	SYS1	2128	1.00%	2142	0.994	-14	-0.64%
42	18-Dec-91	SYS2	2160	0.70%	2142	1.008	18	0.85%
43	18-Dec-91	SYS1	2114	0.95%	2142	0.987	-28	-1.30%
44	18-Dec-91	SYS2	2143	0.76%	2142	1.001	1	0.06%
45	21-Dec-91	SYS1	2132	0.96%	2141	0.996	-9	-0.42%

SAVANNAH RIVER
NO DATA REPORTED

RESULTS OF ANALYSIS OF 241-Am/239-Pu DATA

	REPORTING LABORATORY						
	CSL	LLNL	LANL	MOUND	WHO	RFP	
Mean Error (ppm)	****	-30	-20	-7	-18	0	****
Std. Dev. (ppm)	****	3.21	15.14	6.73	5.64	18.77	****
Unc. in Mean (ppm)	****	1.70	3.37	2.55	1.42	2.25	****
Mean Error (%)	****	-1.65%	-1.11%	-0.36%	-0.96%	-0.02%	****
Std. Dev. (%)	****	0.18%	0.83%	0.37%	0.31%	1.03%	****
Unc. in Mean (%)	****	0.09%	0.19%	0.14%	0.08%	0.12%	****
DIFFERENCE FROM LAST PERIOD							
Diff. in Mean Error (ppm)	****	-1	-7	-5	1	31	****
Diff. in Std. Dev. (ppm)	****	0.30	-4.73	0.02	-0.14	-12.08	****
Diff. in Mean Error (%)	****	-0.06%	-0.40%	-0.23%	0.13%	1.69%	****
Diff. in Std. Dev. (%)	****	0.01%	-0.27%	0.00%	-0.01%	-0.68%	****
Number of Data Points	0	12	17	18	23	45	0

* NO DATA REPORTED FOR THIS MEASUREMENT IN THE PREVIOUS PERIOD

LAWRENCE LIVERMORE - 241-AM/239-PU
1ST - 4TH QUARTERS 1991

LOS ALAMOS - 241-AM/239-PU 1ST - 4TH QUARTERS 1991

EG&G MOUND - 241-AM/239-PU
1ST - 4TH QUARTERS 1991

WESTINGHOUSE HANFORD - 241-AM/239-PU
1ST - 4TH QUARTERS 1991

EG&G ROCKY FLATS - ANALYTICAL LAB.
241-AM/239-PU - 3RD - 4TH QUARTERS 1991

Am/239-Pu DATA
4TH QUARTER 1991

RFP - CSL

NO DATA REPORTED

LLNL

#	Date Measured	Instr. ID	Am/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	9-Oct-91	1	1779	0.36%	1811	0.982	-33	-1.80%
2	21-Oct-91	1	1782	0.37%	1815	0.982	-33	-1.83%
3	30-Oct-91	1	1787	0.35%	1817	0.983	-30	-1.67%
4	11-Nov-91	1	1789	0.31%	1821	0.983	-31	-1.72%
5	14-Nov-91	1	1790	0.34%	1821	0.983	-32	-1.73%
6	14-Nov-91	1	1789	0.35%	1821	0.982	-32	-1.76%
7	18-Nov-91	1	1791	0.31%	1822	0.983	-31	-1.71%
8	19-Nov-91	1	1795	0.33%	1823	0.985	-27	-1.50%
9	20-Nov-91	1	1799	0.31%	1823	0.987	-24	-1.32%
10	21-Nov-91	1	1789	0.30%	1823	0.981	-34	-1.88%
11	25-Nov-91	1	1796	0.28%	1824	0.985	-28	-1.54%
12	10-Dec-91	1	1803	0.33%	1829	0.986	-25	-1.38%

LANL

#	Date Measured	Instr. ID	Am/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	2-Oct-91	F6	1781	0.83%	1809	0.984	-28	-1.56%
2	4-Oct-91	F5	1766	0.68%	1810	0.976	-44	-2.45%
3	9-Oct-91	F5	1815	0.72%	1811	1.002	3	0.17%
4	9-Oct-91	F6	1801	0.86%	1811	0.994	-10	-0.55%
5	16-Oct-91	F6	1792	0.79%	1813	0.988	-21	-1.17%
6	23-Oct-91	F5	1783	0.71%	1815	0.982	-32	-1.78%
7	30-Oct-91	F5	1814	0.67%	1817	0.998	-3	-0.17%
8	30-Oct-91	F6	1803	0.82%	1817	0.992	-14	-0.78%
9	6-Nov-91	F5	1807	0.65%	1819	0.993	-13	-0.69%
10	12-Nov-91	F5	1788	0.69%	1821	0.982	-33	-1.79%
11	18-Nov-91	F6	1823	0.83%	1822	1.000	0	0.02%
12	27-Nov-91	F6	1816	0.81%	1825	0.995	-9	-0.50%
13	3-Dec-91	F5	1812	0.78%	1827	0.992	-15	-0.82%
14	10-Dec-91	F6	1778	0.81%	1829	0.972	-51	-2.79%
15	18-Dec-91	F5	1814	0.67%	1831	0.991	-17	-0.92%
16	23-Dec-91	F5	1801	0.83%	1832	0.983	-31	-1.68%
17	23-Dec-91	F6	1806	0.87%	1832	0.986	-27	-1.45%

Am/239-Pu DATA
4TH QUARTER 1991

EG&G MOUND

#	Date Measured	Instr. ID	Am/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	7-Oct-91	GENIE2	1805	0.63%	1811	0.997	-6	-0.32%
2	8-Oct-91	GENIE2	1787	0.64%	1811	0.987	-24	-1.33%
3	24-Oct-91	GENIE2	1801	0.59%	1816	0.992	-15	-0.80%
4	24-Oct-91	GENIE2	1807	0.58%	1816	0.995	-9	-0.47%
5	28-Oct-91	GENIE2	1810	0.66%	1817	0.996	-7	-0.37%
6	28-Oct-91	GENIE2	1811	0.62%	1817	0.997	-6	-0.31%
7	5-Nov-91	GENIE2	1821	0.56%	1819	1.001	2	0.12%
8	14-Nov-91	GENIE2	1824	0.58%	1821	1.001	3	0.14%
9	15-Nov-91	GENIE2	1817	0.59%	1822	0.997	-5	-0.25%
10	15-Nov-91	GENIE2	1822	0.62%	1822	1.000	0	0.02%
11	18-Nov-91	GENIE2	1816	0.51%	1822	0.996	-6	-0.36%
12	5-Dec-91	GENIE2	1827	0.60%	1827	1.000	0	-0.01%
13	5-Dec-91	GENIE2	1823	0.60%	1827	0.998	-4	-0.23%
14	6-Dec-91	GENIE2	1824	0.59%	1827	0.998	-3	-0.19%
15	6-Dec-91	GENIE2	1813	0.58%	1827	0.992	-14	-0.79%
16	6-Dec-91	GENIE2	1817	0.61%	1827	0.994	-10	-0.57%
17	6-Dec-91	GENIE2	1815	0.56%	1827	0.993	-12	-0.68%
18	7-Dec-91	GENIE2	1825	0.61%	1828	0.999	-3	-0.15%

HANFORD

#	Date Measured	Instr. ID	Am/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	14-Oct-91	1985	1799	0.38%	1813	0.992	-14	-0.75%
2	14-Oct-91	2424	1798	0.38%	1813	0.992	-15	-0.83%
3	15-Oct-91	2026	1795	0.38%	1813	0.990	-18	-0.99%
4	21-Oct-91	1985	1796	0.40%	1815	0.990	-19	-1.05%
5	22-Oct-91	2026	1792	0.37%	1815	0.987	-23	-1.26%
6	22-Oct-91	2424	1795	0.38%	1815	0.989	-20	-1.12%
7	28-Oct-91	2026	1787	0.39%	1817	0.984	-29	-1.62%
8	28-Oct-91	2424	1804	0.36%	1817	0.993	-13	-0.70%
9	7-Nov-91	2424	1807	0.35%	1819	0.993	-12	-0.66%
10	11-Nov-91	2424	1801	0.37%	1821	0.989	-20	-1.08%
11	14-Nov-91	2026	1799	0.36%	1821	0.987	-23	-1.25%
12	15-Nov-91	1985	1797	0.41%	1822	0.987	-24	-1.33%
13	19-Nov-91	1985	1817	0.36%	1823	0.997	-6	-0.33%
14	19-Nov-91	2424	1804	0.35%	1823	0.990	-18	-1.01%
15	20-Nov-91	2026	1800	0.36%	1823	0.987	-23	-1.28%
16	25-Nov-91	2026	1799	0.36%	1824	0.986	-25	-1.40%
17	25-Nov-91	1985	1808	0.41%	1824	0.991	-16	-0.89%
18	26-Nov-91	2424	1812	0.38%	1825	0.993	-13	-0.69%
19	2-Dec-91	2026	1807	0.39%	1826	0.989	-20	-1.07%
20	2-Dec-91	2424	1813	0.42%	1826	0.993	-13	-0.73%
21	5-Dec-91	1985	1811	0.39%	1827	0.991	-16	-0.87%
22	9-Dec-91	2424	1815	0.39%	1828	0.993	-14	-0.74%
23	16-Dec-91	2424	1821	0.37%	1830	0.995	-9	-0.49%

Am/239-Pu DATA
4TH QUARTER 1991

RFP - ANAL. LAB.

#	Date Measured	Instr. ID	Am/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	9-Oct-91	SYS1	1817	0.31%	1811	1.003	6	0.31%
2	21-Oct-91	SYS1	1833	0.44%	1815	1.010	18	1.01%
3	22-Oct-91	SYS2	1811	0.53%	1815	0.998	-4	-0.22%
4	23-Oct-91	SYS1	1815	0.44%	1815	1.000	0	-0.01%
5	24-Oct-91	SYS1	1831	0.44%	1816	1.009	15	0.85%
6	24-Oct-91	SYS2	1836	0.51%	1816	1.011	20	1.13%
7	29-Oct-91	SYS1	1813	0.69%	1817	0.998	-4	-0.22%
8	29-Oct-91	SYS2	1802	0.79%	1817	0.992	-15	-0.82%
9	1-Nov-91	SYS1	1858	0.95%	1818	1.022	40	2.21%
10	1-Nov-91	SYS2	1827	0.86%	1818	1.005	9	0.51%
11	5-Nov-91	SYS1	1834	1.12%	1819	1.008	15	0.83%
12	5-Nov-91	SYS2	1810	1.13%	1819	0.995	-9	-0.49%
13	8-Nov-91	SYS1	1813	0.66%	1820	0.996	-7	-0.37%
14	11-Nov-91	SYS1	1817	0.64%	1821	0.998	-4	-0.19%
15	11-Nov-91	SYS2	1775	1.02%	1821	0.975	-46	-2.50%
16	13-Nov-91	SYS1	1829	0.64%	1821	1.004	8	0.43%
17	13-Nov-91	SYS1	1820	0.63%	1821	0.999	-1	-0.06%
18	13-Nov-91	SYS2	1818	0.97%	1821	0.998	-3	-0.17%
19	15-Nov-91	SYS1	1823	0.74%	1822	1.001	1	0.07%
20	15-Nov-91	SYS2	1824	1.07%	1822	1.001	2	0.13%
21	18-Nov-91	SYS1	1828	0.67%	1822	1.003	6	0.30%
22	18-Nov-91	SYS2	1815	0.90%	1822	0.996	-7	-0.41%
23	22-Nov-91	SYS1	1836	0.95%	1824	1.007	12	0.68%
24	22-Nov-91	SYS2	1836	1.15%	1824	1.007	12	0.68%
25	25-Nov-91	SYS1	1833	0.66%	1824	1.005	9	0.47%
26	25-Nov-91	SYS2	1827	1.03%	1824	1.001	3	0.14%
27	27-Nov-91	SYS1	1831	0.63%	1825	1.003	6	0.33%
28	27-Nov-91	SYS2	1806	0.81%	1825	0.990	-19	-1.04%
29	2-Dec-91	SYS1	1835	0.66%	1826	1.005	9	0.47%
30	3-Dec-91	SYS1	1839	0.61%	1827	1.007	12	0.68%
31	3-Dec-91	SYS2	1823	0.87%	1827	0.998	-4	-0.20%
32	6-Dec-91	SYS2	1825	0.91%	1827	0.999	-2	-0.13%
33	6-Dec-91	SYS1	1844	0.62%	1827	1.009	17	0.91%
34	9-Dec-91	SYS1	1821	0.91%	1828	0.996	-7	-0.40%
35	9-Dec-91	SYS2	1822	0.90%	1828	0.997	-6	-0.34%
36	12-Dec-91	SYS1	1810	0.67%	1829	0.990	-19	-1.04%
37	12-Dec-91	SYS2	1814	1.13%	1829	0.992	-15	-0.83%
38	14-Dec-91	SYS1	1843	0.67%	1830	1.007	13	0.73%
39	16-Dec-91	SYS1	1829	0.88%	1830	0.999	-1	-0.07%
40	16-Dec-91	SYS2	1821	1.20%	1830	0.995	-9	-0.50%
41	18-Dec-91	SYS1	1837	0.67%	1831	1.003	6	0.34%
42	18-Dec-91	SYS2	1749	1.36%	1831	0.955	-82	-4.47%
43	18-Dec-91	SYS1	1845	0.67%	1831	1.008	14	0.78%
44	18-Dec-91	SYS2	1807	1.06%	1831	0.987	-24	-1.30%
45	21-Dec-91	SYS1	1845	0.68%	1832	1.007	13	0.73%

SAVANNAH RIVER
NO DATA REPORTED

RESULTS OF ANALYSIS OF PERCENT 238-Pu DATA

	REPORTING LABORATORY						
	CSL	LLNL	LANL	MOUND	WHO	RFP	
Mean Error (weight %)	****	0.0000%	0.0003%	0.0004%	0.0002%	0.0003%	****
Std. Dev. (weight %)	****	0.0002%	0.0011%	0.0004%	0.0005%	0.0015%	****
Unc. in Mean (weight %)	****	0.0001%	0.0002%	0.0001%	0.0001%	0.0002%	****
Mean Error (%)	****	-0.25%	3.76%	4.06%	2.44%	3.67%	****
Std. Dev. (%)	****	1.84%	12.12%	4.51%	5.26%	15.82%	****
Unc. in Mean (%)	****	0.80%	1.67%	1.44%	0.75%	2.31%	****
DIFFERENCE FROM LAST PERIOD							
Diff. in Mean Error (wt. %)	****	0.0000%	-0.0007%	-0.0001%	0.0000%	-0.0005%	****
Diff. in Std. Dev. (wt. %)	****	0.0000%	0.0003%	-0.0002%	0.0000%	0.0003%	****
Diff. in Mean Error (%)	****	0.12%	-7.40%	-1.64%	-0.10%	-4.80%	****
Diff. in Std. Dev. (%)	****	-0.54%	3.93%	-1.48%	-0.16%	2.57%	****
Number of Data Points	0	12	17	18	23	45	0

* NO DATA REPORTED FOR THIS MEASUREMENT IN THE PREVIOUS PERIOD

LAWRENCE LIVERMORE - PERCENT 238-Pu
1ST - 4TH QUARTERS 1991

1ST - 4TH QUARTERS 1991

EG&G MOUND - PERCENT 238-Pu
1ST - 4TH QUARTERS 1991

WESTINGHOUSE HANFORD - PERCENT 238-Pu
1ST - 4TH QUARTERS 1991

EC&G ROCKY FLATS - ANALYTICAL LAB.
 PERCENT 238-PU - 3RD - 4TH QUARTERS 1991

WEIGHT PERCENT 238-Pu DATA
4TH QUARTER 1991

RFP - CSL

NO DATA REPORTED

LLNL

#	Date Measured	Instr. ID	238-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	9-Oct-91	1	0.0092%	3.12%	0.0092%	0.995	0.0000%	-0.50%
2	21-Oct-91	1	0.0092%	3.15%	0.0092%	0.995	0.0000%	-0.48%
3	30-Oct-91	1	0.0090%	3.07%	0.0092%	0.974	-0.0002%	-2.62%
4	11-Nov-91	1	0.0092%	2.60%	0.0092%	0.996	0.0000%	-0.43%
5	14-Nov-91	1	0.0092%	2.86%	0.0092%	0.996	0.0000%	-0.43%
6	14-Nov-91	1	0.0092%	2.95%	0.0092%	0.996	0.0000%	-0.43%
7	18-Nov-91	1	0.0095%	2.52%	0.0092%	1.028	0.0003%	2.83%
8	19-Nov-91	1	0.0094%	2.74%	0.0092%	1.017	0.0002%	1.75%
9	20-Nov-91	1	0.0094%	2.55%	0.0092%	1.017	0.0002%	1.75%
10	21-Nov-91	1	0.0089%	2.54%	0.0092%	0.963	-0.0003%	-3.66%
11	25-Nov-91	1	0.0091%	2.34%	0.0092%	0.985	-0.0001%	-1.49%
12	10-Dec-91	1	0.0093%	2.72%	0.0092%	1.007	0.0001%	0.71%

LANL

#	Date Measured	Instr. ID	238-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	2-Oct-91	F6	0.0080%	8.17%	0.0092%	0.865	-0.0012%	-13.49%
2	4-Oct-91	F5	0.0100%	5.76%	0.0092%	1.081	0.0008%	8.14%
3	9-Oct-91	F5	0.0100%	6.02%	0.0092%	1.081	0.0008%	8.15%
4	9-Oct-91	F6	0.0100%	7.45%	0.0092%	1.081	0.0008%	8.15%
5	16-Oct-91	F6	0.0100%	6.79%	0.0092%	1.082	0.0008%	8.16%
6	23-Oct-91	F5	0.0090%	6.61%	0.0092%	0.974	-0.0002%	-2.64%
7	30-Oct-91	F5	0.0110%	5.20%	0.0092%	1.190	0.0018%	19.02%
8	30-Oct-91	F6	0.0120%	5.66%	0.0092%	1.298	0.0028%	29.84%
9	6-Nov-91	F5	0.0100%	5.63%	0.0092%	1.082	0.0008%	8.21%
10	12-Nov-91	F5	0.0090%	6.31%	0.0092%	0.974	-0.0002%	-2.60%
11	18-Nov-91	F6	0.0100%	7.06%	0.0092%	1.082	0.0008%	8.24%
12	27-Nov-91	F6	0.0080%	8.58%	0.0092%	0.866	-0.0012%	-13.39%
13	3-Dec-91	F5	0.0100%	6.96%	0.0092%	1.083	0.0008%	8.27%
14	10-Dec-91	F6	0.0100%	6.70%	0.0092%	1.083	0.0008%	8.29%
15	18-Dec-91	F5	0.0100%	5.71%	0.0092%	1.083	0.0008%	8.31%
16	23-Dec-91	F5	0.0080%	8.40%	0.0092%	0.867	-0.0012%	-13.34%
17	23-Dec-91	F6	0.0080%	8.60%	0.0092%	0.867	-0.0012%	-13.34%

**WEIGHT PERCENT 238-Pu DATA
4TH QUARTER 1991**

EG&G MOUND

#	Date Measured	Instr. ID	238-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	7-Oct-91	GENIE2	0.0094%	7.08%	0.0092%	1.020	0.0002%	2.05%
2	8-Oct-91	GENIE2	0.0093%	6.07%	0.0092%	1.001	0.0000%	0.11%
3	24-Oct-91	GENIE2	0.0094%	5.53%	0.0092%	1.012	0.0001%	1.16%
4	24-Oct-91	GENIE2	0.0103%	6.50%	0.0092%	1.113	0.0010%	11.27%
5	28-Oct-91	GENIE2	0.0096%	6.34%	0.0092%	1.043	0.0004%	4.29%
6	28-Oct-91	GENIE2	0.0101%	5.54%	0.0092%	1.092	0.0008%	9.16%
7	5-Nov-91	GENIE2	0.0102%	5.50%	0.0092%	1.102	0.0009%	10.24%
8	14-Nov-91	GENIE2	0.0094%	5.97%	0.0092%	1.012	0.0001%	1.22%
9	15-Nov-91	GENIE2	0.0099%	6.51%	0.0092%	1.072	0.0007%	7.17%
10	15-Nov-91	GENIE2	0.0095%	6.09%	0.0092%	1.033	0.0003%	3.27%
11	18-Nov-91	GENIE2	0.0099%	6.24%	0.0092%	1.073	0.0007%	7.28%
12	5-Dec-91	GENIE2	0.0096%	5.49%	0.0092%	1.044	0.0004%	4.41%
13	5-Dec-91	GENIE2	0.0091%	6.00%	0.0092%	0.982	-0.0002%	-1.82%
14	6-Dec-91	GENIE2	0.0097%	5.04%	0.0092%	1.052	0.0005%	5.25%
15	6-Dec-91	GENIE2	0.0097%	6.65%	0.0092%	1.053	0.0005%	5.35%
16	6-Dec-91	GENIE2	0.0089%	5.97%	0.0092%	0.962	-0.0004%	-3.82%
17	6-Dec-91	GENIE2	0.0101%	6.23%	0.0092%	1.093	0.0009%	9.29%
18	7-Dec-91	GENIE2	0.0090%	6.89%	0.0092%	0.973	-0.0002%	-2.70%

HANFORD

#	Date Measured	Instr. ID	238-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	14-Oct-91	1985	0.0085%	4.07%	0.0092%	0.919	-0.0007%	-8.06%
2	14-Oct-91	2424	0.0095%	3.51%	0.0092%	1.028	0.0003%	2.75%
3	15-Oct-91	2026	0.0103%	3.35%	0.0092%	1.114	0.0011%	11.41%
4	21-Oct-91	1985	0.0095%	3.76%	0.0092%	1.028	0.0003%	2.77%
5	22-Oct-91	2026	0.0103%	3.26%	0.0092%	1.114	0.0011%	11.42%
6	22-Oct-91	2424	0.0093%	3.62%	0.0092%	1.006	0.0001%	0.61%
7	28-Oct-91	2026	0.0093%	3.75%	0.0092%	1.006	0.0001%	0.62%
8	28-Oct-91	2424	0.0093%	3.41%	0.0092%	1.006	0.0001%	0.62%
9	7-Nov-91	2424	0.0095%	3.23%	0.0092%	1.028	0.0003%	2.80%
10	11-Nov-91	2424	0.0096%	3.43%	0.0092%	1.039	0.0004%	3.89%
11	14-Nov-91	2026	0.0098%	3.31%	0.0092%	1.061	0.0006%	6.07%
12	15-Nov-91	1985	0.0088%	4.17%	0.0092%	0.952	-0.0004%	-4.75%
13	19-Nov-91	1985	0.0093%	3.52%	0.0092%	1.007	0.0001%	0.67%
14	19-Nov-91	2424	0.0100%	3.09%	0.0092%	1.082	0.0008%	8.24%
15	20-Nov-91	2026	0.0099%	3.27%	0.0092%	1.072	0.0007%	7.16%
16	25-Nov-91	2026	0.0095%	3.39%	0.0092%	1.028	0.0003%	2.84%
17	25-Nov-91	1985	0.0090%	4.10%	0.0092%	0.974	-0.0002%	-2.57%
18	26-Nov-91	2424	0.0097%	3.44%	0.0092%	1.050	0.0005%	5.01%
19	2-Dec-91	2026	0.0102%	3.44%	0.0092%	1.104	0.0010%	10.44%
20	2-Dec-91	2424	0.0087%	4.17%	0.0092%	0.942	-0.0005%	-5.80%
21	5-Dec-91	1985	0.0094%	3.75%	0.0092%	1.018	0.0002%	1.78%
22	9-Dec-91	2424	0.0089%	3.80%	0.0092%	0.964	-0.0003%	-3.62%
23	16-Dec-91	2424	0.0094%	3.41%	0.0092%	1.018	0.0002%	1.81%

WEIGHT PERCENT 238-Pu DATA
4TH QUARTER 1991

RFP - ANAL. LAB.

#	Date Measured	Instr. ID	238-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	9-Oct-91	SYS1	0.0108%	6.74%	0.0092%	1.173	0.0016%	17.29%
2	21-Oct-91	SYS1	0.0100%	10.60%	0.0092%	1.082	0.0008%	8.19%
3	22-Oct-91	SYS2	0.0095%	7.76%	0.0092%	1.022	0.0002%	2.24%
4	23-Oct-91	SYS1	0.0105%	9.78%	0.0092%	1.132	0.0012%	13.24%
5	24-Oct-91	SYS1	0.0100%	10.63%	0.0092%	1.083	0.0008%	8.33%
6	24-Oct-91	SYS2	0.0095%	8.40%	0.0092%	1.031	0.0003%	3.11%
7	29-Oct-91	SYS1	0.0086%	19.32%	0.0092%	0.931	-0.0006%	-6.90%
8	29-Oct-91	SYS2	0.0090%	13.90%	0.0092%	0.972	-0.0003%	-2.76%
9	1-Nov-91	SYS1	0.0119%	15.20%	0.0092%	1.284	0.0026%	28.38%
10	1-Nov-91	SYS2	0.0086%	14.57%	0.0092%	0.932	-0.0006%	-6.83%
11	5-Nov-91	SYS1	0.0077%	20.30%	0.0092%	0.830	-0.0016%	-16.97%
12	5-Nov-91	SYS2	0.0071%	18.02%	0.0092%	0.769	-0.0021%	-23.14%
13	8-Nov-91	SYS1	0.0078%	18.81%	0.0092%	0.840	-0.0015%	-16.04%
14	11-Nov-91	SYS1	0.0115%	12.09%	0.0092%	1.245	0.0023%	24.51%
15	11-Nov-91	SYS2	0.0093%	15.32%	0.0092%	1.002	0.0000%	0.18%
16	13-Nov-91	SYS1	0.0114%	15.46%	0.0092%	1.235	0.0022%	23.51%
17	13-Nov-91	SYS1	0.0094%	18.42%	0.0092%	1.022	0.0002%	2.23%
18	13-Nov-91	SYS2	0.0116%	10.25%	0.0092%	1.256	0.0024%	25.62%
19	15-Nov-91	SYS1	0.0096%	16.34%	0.0092%	1.043	0.0004%	4.34%
20	15-Nov-91	SYS2	0.0087%	14.16%	0.0092%	0.942	-0.0005%	-5.80%
21	18-Nov-91	SYS1	0.0094%	15.30%	0.0092%	1.023	0.0002%	2.28%
22	18-Nov-91	SYS2	0.0104%	10.70%	0.0092%	1.124	0.0011%	12.35%
23	22-Nov-91	SYS1	0.0069%	23.25%	0.0092%	0.749	-0.0023%	-25.15%
24	22-Nov-91	SYS2	0.0097%	12.42%	0.0092%	1.053	0.0005%	5.29%
25	25-Nov-91	SYS1	0.0090%	17.53%	0.0092%	0.971	-0.0003%	-2.87%
26	25-Nov-91	SYS2	0.0065%	18.64%	0.0092%	0.706	-0.0027%	-29.43%
27	27-Nov-91	SYS1	0.0071%	31.78%	0.0092%	0.770	-0.0021%	-23.05%
28	27-Nov-91	SYS2	0.0086%	11.08%	0.0092%	0.930	-0.0006%	-7.01%
29	2-Dec-91	SYS1	0.0099%	15.98%	0.0092%	1.075	0.0007%	7.50%
30	3-Dec-91	SYS1	0.0117%	13.04%	0.0092%	1.266	0.0025%	26.57%
31	3-Dec-91	SYS2	0.0110%	10.37%	0.0092%	1.195	0.0018%	19.47%
32	6-Dec-91	SYS2	0.0109%	10.64%	0.0092%	1.175	0.0016%	17.53%
33	6-Dec-91	SYS1	0.0121%	13.32%	0.0092%	1.308	0.0028%	30.80%
34	9-Dec-91	SYS1	0.0107%	14.22%	0.0092%	1.156	0.0014%	15.64%
35	9-Dec-91	SYS2	0.0101%	13.47%	0.0092%	1.096	0.0009%	9.57%
36	12-Dec-91	SYS1	0.0088%	18.15%	0.0092%	0.954	-0.0004%	-4.60%
37	12-Dec-91	SYS2	0.0121%	12.39%	0.0092%	1.307	0.0028%	30.75%
38	14-Dec-91	SYS1	0.0090%	17.63%	0.0092%	0.972	-0.0003%	-2.78%
39	16-Dec-91	SYS1	0.0083%	18.03%	0.0092%	0.902	-0.0009%	-9.83%
40	16-Dec-91	SYS2	0.0100%	11.07%	0.0092%	1.083	0.0008%	8.27%
41	18-Dec-91	SYS1	0.0075%	19.86%	0.0092%	0.810	-0.0018%	-18.98%
42	18-Dec-91	SYS2	0.0097%	11.58%	0.0092%	1.052	0.0005%	5.15%
43	18-Dec-91	SYS1	0.0080%	18.34%	0.0092%	0.862	-0.0013%	-13.81%
44	18-Dec-91	SYS2	0.0106%	14.54%	0.0092%	1.144	0.0013%	14.39%
45	21-Dec-91	SYS1	0.0106%	16.84%	0.0092%	1.145	0.0013%	14.54%

SAVANNAH RIVER
NO DATA REPORTED

RESULTS OF ANALYSIS OF PERCENT 239-Pu DATA

	REPORTING LABORATORY						SRS
	CSL	LLNL	LANL	MOUND	WHO	RFP	
Mean Error (weight %)	****	0.3901%	0.3874%	-0.0004%	-0.0575%	0.0231%	****
Std. Dev. (weight %)	****	0.0333%	0.1226%	0.0600%	0.0247%	0.1012%	****
Unc. in Mean (weight %)	****	0.0062%	0.0246%	0.0201%	0.0059%	0.0197%	****
Mean Error (%)	****	0.42%	0.41%	0.00%	-0.06%	0.02%	****
Std. Dev. (%)	****	0.04%	0.13%	0.06%	0.03%	0.11%	****
Unc. in Mean (%)	****	0.01%	0.03%	0.02%	0.01%	0.02%	****
DIFFERENCE FROM LAST PERIOD							
Diff. in Mean Error (wt. %)	****	-0.0325%	0.0480%	-0.0127%	0.0005%	0.1068%	****
Diff. in Std. Dev. (wt. %)	****	0.0256%	0.0173%	-0.0105%	-0.0140%	0.0216%	****
Diff. in Mean Error (%)	****	-0.03%	0.05%	-0.01%	0.00%	0.11%	****
Diff. in Std. Dev. (%)	****	0.03%	0.02%	-0.02%	-0.01%	0.03%	****
Number of Data Points	0	12	17	18	23	45	0

* NO DATA REPORTED FOR THIS MEASUREMENT IN THE PREVIOUS PERIOD

LAWRENCE LIVERMORE -- PERCENT 239-PU 1ST -- 4TH QUARTERS 1991

LOS ALAMOS - PERCENT 239-PU
1ST - 4TH QUARTERS 1991

EG&G MOUND - PERCENT 239-PU 1ST - 4TH QUARTERS 1991

WESTINGHOUSE HANFORD - PERCENT 239-PU
1ST - 4TH QUARTERS 1991

EG&G ROCKY FLATS - ANALYTICAL LAB.
PERCENT 239-Pu - 3RD - 4TH QUARTERS 1991

WEIGHT PERCENT 239-Pu DATA
4TH QUARTER 1991

RFP - CSL

NO DATA REPORTED

LLNL

#	Date Measured	Instr. ID	239-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	9-Oct-91	1	93.9374%	0.03%	93.5026%	1.005	0.4348%	0.47%
2	21-Oct-91	1	93.9618%	0.03%	93.5029%	1.005	0.4589%	0.49%
3	30-Oct-91	1	93.9023%	0.03%	93.5031%	1.004	0.3992%	0.43%
4	11-Nov-91	1	93.8895%	0.02%	93.5035%	1.004	0.3860%	0.41%
5	14-Nov-91	1	93.8594%	0.02%	93.5035%	1.004	0.3559%	0.38%
6	14-Nov-91	1	93.8823%	0.02%	93.5035%	1.004	0.3788%	0.41%
7	18-Nov-91	1	93.8943%	0.02%	93.5037%	1.004	0.3906%	0.42%
8	19-Nov-91	1	93.8408%	0.02%	93.5037%	1.004	0.3371%	0.36%
9	20-Nov-91	1	93.8778%	0.02%	93.5037%	1.004	0.3741%	0.40%
10	21-Nov-91	1	93.8980%	0.02%	93.5037%	1.004	0.3943%	0.42%
11	25-Nov-91	1	93.9109%	0.02%	93.5038%	1.004	0.4071%	0.44%
12	10-Dec-91	1	93.8684%	0.02%	93.5042%	1.004	0.3642%	0.39%

LANL

#	Date Measured	Instr. ID	239-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	2-Oct-91	F6	93.7049%	0.12%	93.5024%	1.002	0.2025%	0.22%
2	4-Oct-91	F5	93.8522%	0.09%	93.5025%	1.004	0.3497%	0.37%
3	9-Oct-91	F5	94.1109%	0.10%	93.5026%	1.007	0.6083%	0.65%
4	9-Oct-91	F6	93.9752%	0.12%	93.5026%	1.005	0.4726%	0.51%
5	16-Oct-91	F6	93.7952%	0.11%	93.5028%	1.003	0.2924%	0.31%
6	23-Oct-91	F5	93.8897%	0.10%	93.5030%	1.004	0.3867%	0.41%
7	30-Oct-91	F5	93.9154%	0.09%	93.5031%	1.004	0.4123%	0.44%
8	30-Oct-91	F6	93.9412%	0.12%	93.5031%	1.005	0.4381%	0.47%
9	6-Nov-91	F5	93.7037%	0.09%	93.5033%	1.002	0.2004%	0.21%
10	12-Nov-91	F5	93.7224%	0.10%	93.5035%	1.002	0.2189%	0.23%
11	18-Nov-91	F6	93.8437%	0.12%	93.5037%	1.004	0.3400%	0.36%
12	27-Nov-91	F6	93.9909%	0.11%	93.5039%	1.005	0.4870%	0.52%
13	3-Dec-91	F5	93.8270%	0.11%	93.5040%	1.003	0.3230%	0.35%
14	10-Dec-91	F6	94.1129%	0.11%	93.5042%	1.007	0.6087%	0.65%
15	18-Dec-91	F5	93.8676%	0.10%	93.5044%	1.004	0.3632%	0.39%
16	23-Dec-91	F5	93.9735%	0.12%	93.5046%	1.005	0.4689%	0.50%
17	23-Dec-91	F6	93.9172%	0.12%	93.5046%	1.004	0.4126%	0.44%

WEIGHT PERCENT 239-Pu DATA
4TH QUARTER 1991

EG&G MOUND

#	Date Measured	Instr. ID	239-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	7-Oct-91	GENIE2	93.8216%	0.10%	93.8963%	0.999	-0.0748%	-0.08%
2	8-Oct-91	GENIE2	93.8973%	0.10%	93.8964%	1.000	0.0009%	0.00%
3	24-Oct-91	GENIE2	93.9028%	0.09%	93.8968%	1.000	0.0060%	0.01%
4	24-Oct-91	GENIE2	93.8965%	0.09%	93.8968%	1.000	-0.0003%	0.00%
5	28-Oct-91	GENIE2	93.9827%	0.10%	93.8969%	1.001	0.0858%	0.09%
6	28-Oct-91	GENIE2	93.8166%	0.09%	93.8969%	0.999	-0.0803%	-0.09%
7	5-Nov-91	GENIE2	93.8615%	0.08%	93.8971%	1.000	-0.0356%	-0.04%
8	14-Nov-91	GENIE2	93.9145%	0.09%	93.8974%	1.000	0.0171%	0.02%
9	15-Nov-91	GENIE2	93.8026%	0.09%	93.8974%	0.999	-0.0948%	-0.10%
10	15-Nov-91	GENIE2	93.9346%	0.10%	93.8974%	1.000	0.0372%	0.04%
11	18-Nov-91	GENIE2	93.8952%	0.08%	93.8975%	1.000	-0.0023%	0.00%
12	5-Dec-91	GENIE2	94.0154%	0.09%	93.8979%	1.001	0.1175%	0.13%
13	5-Dec-91	GENIE2	93.8700%	0.09%	93.8979%	1.000	-0.0279%	-0.03%
14	6-Dec-91	GENIE2	93.8526%	0.09%	93.8979%	1.000	-0.0453%	-0.05%
15	6-Dec-91	GENIE2	93.9442%	0.08%	93.8979%	1.000	0.0462%	0.05%
16	6-Dec-91	GENIE2	93.8977%	0.09%	93.8979%	1.000	-0.0003%	0.00%
17	6-Dec-91	GENIE2	93.8490%	0.08%	93.8979%	0.999	-0.0489%	-0.05%
18	7-Dec-91	GENIE2	93.9906%	0.09%	93.8980%	1.001	0.0927%	0.10%

HANFORD

#	Date Measured	Instr. ID	239-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	14-Oct-91	1985	93.8718%	0.03%	93.8965%	1.000	-0.0247%	-0.03%
2	14-Oct-91	2424	93.8324%	0.03%	93.8965%	0.999	-0.0641%	-0.07%
3	15-Oct-91	2026	93.8006%	0.03%	93.8966%	0.999	-0.0960%	-0.10%
4	21-Oct-91	1985	93.8260%	0.03%	93.8967%	0.999	-0.0707%	-0.08%
5	22-Oct-91	2026	93.8533%	0.03%	93.8967%	1.000	-0.0434%	-0.05%
6	22-Oct-91	2424	93.8276%	0.03%	93.8967%	0.999	-0.0691%	-0.07%
7	28-Oct-91	2026	93.8274%	0.03%	93.8969%	0.999	-0.0695%	-0.07%
8	28-Oct-91	2424	93.8399%	0.03%	93.8969%	0.999	-0.0570%	-0.06%
9	7-Nov-91	2424	93.8274%	0.03%	93.8972%	0.999	-0.0698%	-0.07%
10	11-Nov-91	2424	93.8865%	0.03%	93.8973%	1.000	-0.0108%	-0.01%
11	14-Nov-91	2026	93.8439%	0.03%	93.8974%	0.999	-0.0535%	-0.06%
12	15-Nov-91	1985	93.9064%	0.03%	93.8974%	1.000	0.0090%	0.01%
13	19-Nov-91	1985	93.8372%	0.03%	93.8975%	0.999	-0.0603%	-0.06%
14	19-Nov-91	2424	93.8173%	0.03%	93.8975%	0.999	-0.0802%	-0.09%
15	20-Nov-91	2026	93.8384%	0.03%	93.8975%	0.999	-0.0591%	-0.06%
16	25-Nov-91	2026	93.8257%	0.03%	93.8977%	0.999	-0.0720%	-0.08%
17	25-Nov-91	1985	93.8390%	0.03%	93.8977%	0.999	-0.0587%	-0.06%
18	26-Nov-91	2424	93.8541%	0.03%	93.8977%	1.000	-0.0436%	-0.05%
19	2-Dec-91	2026	93.8044%	0.03%	93.8978%	0.999	-0.0934%	-0.10%
20	2-Dec-91	2424	93.8643%	0.03%	93.8978%	1.000	-0.0335%	-0.04%
21	5-Dec-91	1985	93.8438%	0.03%	93.8979%	0.999	-0.0541%	-0.06%
22	9-Dec-91	2424	93.8270%	0.03%	93.8980%	0.999	-0.0710%	-0.08%
23	16-Dec-91	2424	93.8217%	0.03%	93.8982%	0.999	-0.0765%	-0.08%

**WEIGHT PERCENT 239-Pu DATA
4TH QUARTER 1991**

RFP - ANAL. LAB.

#	Date Measured	Instr. ID	239-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	9-Oct-91	SYS1	93.8901%	0.06%	93.8964%	1.000	-0.0063%	-0.01%
2	21-Oct-91	SYS1	93.8609%	0.08%	93.8967%	1.000	-0.0358%	-0.04%
3	22-Oct-91	SYS2	93.9670%	0.09%	93.8967%	1.001	0.0703%	0.07%
4	23-Oct-91	SYS1	93.8536%	0.08%	93.8968%	1.000	-0.0432%	-0.05%
5	24-Oct-91	SYS1	93.9783%	0.08%	93.8968%	1.001	0.0815%	0.09%
6	24-Oct-91	SYS2	93.8347%	0.09%	93.8968%	0.999	-0.0621%	-0.07%
7	29-Oct-91	SYS1	93.9303%	0.11%	93.8969%	1.000	0.0334%	0.04%
8	29-Oct-91	SYS2	94.0157%	0.13%	93.8969%	1.001	0.1188%	0.13%
9	1-Nov-91	SYS1	93.8178%	0.19%	93.8970%	0.999	-0.0792%	-0.08%
10	1-Nov-91	SYS2	93.9878%	0.14%	93.8970%	1.001	0.0908%	0.10%
11	5-Nov-91	SYS1	93.9677%	0.20%	93.8971%	1.001	0.0706%	0.08%
12	5-Nov-91	SYS2	93.8486%	0.19%	93.8971%	0.999	-0.0485%	-0.05%
13	8-Nov-91	SYS1	93.8675%	0.11%	93.8972%	1.000	-0.0297%	-0.03%
14	11-Nov-91	SYS1	93.9315%	0.11%	93.8973%	1.000	0.0342%	0.04%
15	11-Nov-91	SYS2	93.8998%	0.17%	93.8973%	1.000	0.0026%	0.00%
16	13-Nov-91	SYS1	93.9371%	0.11%	93.8973%	1.000	0.0397%	0.04%
17	13-Nov-91	SYS1	93.9203%	0.11%	93.8973%	1.000	0.0229%	0.02%
18	13-Nov-91	SYS2	93.9964%	0.16%	93.8973%	1.001	0.0991%	0.11%
19	15-Nov-91	SYS1	93.9858%	0.12%	93.8974%	1.001	0.0884%	0.09%
20	15-Nov-91	SYS2	93.9816%	0.18%	93.8974%	1.001	0.0842%	0.09%
21	18-Nov-91	SYS1	93.9568%	0.11%	93.8975%	1.001	0.0594%	0.06%
22	18-Nov-91	SYS2	93.9068%	0.17%	93.8975%	1.000	0.0093%	0.01%
23	22-Nov-91	SYS1	93.8387%	0.19%	93.8976%	0.999	-0.0589%	-0.06%
24	22-Nov-91	SYS2	93.9186%	0.20%	93.8976%	1.000	0.0210%	0.02%
25	25-Nov-91	SYS1	93.8505%	0.11%	93.8977%	0.999	-0.0471%	-0.05%
26	25-Nov-91	SYS2	93.5192%	0.17%	93.8977%	0.996	-0.3784%	-0.40%
27	27-Nov-91	SYS1	93.9234%	0.11%	93.8977%	1.000	0.0257%	0.03%
28	27-Nov-91	SYS2	93.7612%	0.13%	93.8977%	0.999	-0.1365%	-0.15%
29	2-Dec-91	SYS1	94.0593%	0.11%	93.8978%	1.002	0.1614%	0.17%
30	3-Dec-91	SYS1	93.9092%	0.11%	93.8979%	1.000	0.0113%	0.01%
31	3-Dec-91	SYS2	93.9016%	0.13%	93.8979%	1.000	0.0037%	0.00%
32	6-Dec-91	SYS2	93.9677%	0.13%	93.8979%	1.001	0.0697%	0.07%
33	6-Dec-91	SYS1	94.0324%	0.11%	93.8979%	1.001	0.1344%	0.14%
34	9-Dec-91	SYS1	94.0703%	0.14%	93.8980%	1.002	0.1723%	0.18%
35	9-Dec-91	SYS2	94.0856%	0.14%	93.8980%	1.002	0.1876%	0.20%
36	12-Dec-91	SYS1	94.1141%	0.11%	93.8981%	1.002	0.2160%	0.23%
37	12-Dec-91	SYS2	93.9859%	0.20%	93.8981%	1.001	0.0878%	0.09%
38	14-Dec-91	SYS1	93.9070%	0.11%	93.8982%	1.000	0.0088%	0.01%
39	16-Dec-91	SYS1	93.9395%	0.17%	93.8982%	1.000	0.0413%	0.04%
40	16-Dec-91	SYS2	93.8223%	0.19%	93.8982%	0.999	-0.0759%	-0.08%
41	18-Dec-91	SYS1	93.8991%	0.11%	93.8983%	1.000	0.0008%	0.00%
42	18-Dec-91	SYS2	93.7461%	0.23%	93.8983%	0.998	-0.1522%	-0.16%
43	18-Dec-91	SYS1	94.0103%	0.11%	93.8983%	1.001	0.1121%	0.12%
44	18-Dec-91	SYS2	93.8613%	0.17%	93.8983%	1.000	-0.0369%	-0.04%
45	21-Dec-91	SYS1	93.9709%	0.11%	93.8983%	1.001	0.0725%	0.08%

**SAVANNAH RIVER
NO DATA REPORTED**

RESULTS OF ANALYSIS OF PERCENT 240-Pu DATA

	REPORTING LABORATORY						
	CSL	LLNL	LANL	MOUND	WHO	RFP	SRS
Mean Error (weight %)	****	0.0040%	0.0075%	0.0085%	0.0642%	-0.0647%	****
Std. Dev. (weight %)	****	0.0331%	0.1220%	0.0593%	0.0241%	0.1015%	****
Unc. in Mean (weight %)	****	0.0064%	0.0249%	0.0227%	0.0058%	0.0222%	****
Mean Error (%)	****	0.07%	0.13%	0.14%	1.09%	-1.10%	****
Std. Dev. (%)	****	0.56%	2.08%	1.01%	0.41%	1.73%	****
Unc. in Mean (%)	****	0.11%	0.42%	0.39%	0.10%	0.38%	****
DIFFERENCE FROM LAST PERIOD							
Diff. in Mean Error (wt. %)	****	0.0312%	-0.0168%	0.0128%	0.0043%	-0.1046%	****
Diff. in Std. Dev. (wt. %)	****	0.0255%	0.0056%	-0.0106%	-0.0146%	0.0223%	****
Diff. in Mean Error (%)	****	0.53%	-0.28%	0.21%	0.07%	-1.78%	****
Diff. in Std. Dev. (%)	****	0.43%	0.09%	-0.18%	-0.25%	0.38%	****
Number of Data Points	0	12	17	18	23	45	0

* NO DATA REPORTED FOR THIS MEASUREMENT IN THE PREVIOUS PERIOD

LAWRENCE LIVERMORE - PERCENT 240-PU 1ST - 4TH QUARTERS 1991

LOS ALAMOS - PERCENT 240-PU 1ST - 4TH QUARTERS 1991

EG&G MOUND - PERCENT 240-PU
1ST - 4TH QUARTERS 1991

WESTINGHOUSE HANFORD - PERCENT 240-PU
1ST - 4TH QUARTERS 1991

EG&G ROCKY FLATS - ANALYTICAL LAB.
 PERCENT 240-Pu - 3RD - 4TH QUARTERS 1991

**WEIGHT PERCENT 240-Pu DATA
4TH QUARTER 1991**

RFP - CSL

NO DATA REPORTED

LLNL

#	Date Measured	Instr. ID	240-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	9-Oct-91	1	5.8204%	0.42%	5.8606%	0.993	-0.0402%	-0.69%
2	21-Oct-91	1	5.7960%	0.43%	5.8606%	0.989	-0.0646%	-1.10%
3	30-Oct-91	1	5.8557%	0.41%	5.8606%	0.999	-0.0049%	-0.08%
4	11-Nov-91	1	5.8690%	0.36%	5.8606%	1.001	0.0084%	0.14%
5	14-Nov-91	1	5.8985%	0.38%	5.8606%	1.006	0.0379%	0.65%
6	14-Nov-91	1	5.8762%	0.40%	5.8606%	1.003	0.0156%	0.27%
7	18-Nov-91	1	5.8640%	0.35%	5.8606%	1.001	0.0034%	0.06%
8	19-Nov-91	1	5.9172%	0.37%	5.8606%	1.010	0.0566%	0.97%
9	20-Nov-91	1	5.8796%	0.35%	5.8606%	1.003	0.0190%	0.32%
10	21-Nov-91	1	5.8607%	0.33%	5.8606%	1.000	0.0001%	0.00%
11	25-Nov-91	1	5.8466%	0.32%	5.8606%	0.998	-0.0140%	-0.24%
12	10-Dec-91	1	5.8907%	0.37%	5.8606%	1.005	0.0301%	0.51%

LANL

#	Date Measured	Instr. ID	240-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	2-Oct-91	F6	6.0530%	1.79%	5.8606%	1.033	0.1924%	3.28%
2	4-Oct-91	F5	5.9040%	1.51%	5.8606%	1.007	0.0434%	0.74%
3	9-Oct-91	F5	5.6450%	1.72%	5.8606%	0.963	-0.2156%	-3.68%
4	9-Oct-91	F6	5.8080%	1.94%	5.8606%	0.991	-0.0526%	-0.90%
5	16-Oct-91	F6	5.9620%	1.75%	5.8606%	1.017	0.1014%	1.73%
6	23-Oct-91	F5	5.8680%	1.60%	5.8606%	1.001	0.0074%	0.13%
7	30-Oct-91	F5	5.8360%	1.53%	5.8606%	0.996	-0.0246%	-0.42%
8	30-Oct-91	F6	5.8130%	1.88%	5.8606%	0.992	-0.0476%	-0.81%
9	6-Nov-91	F5	6.0530%	1.45%	5.8606%	1.033	0.1924%	3.28%
10	12-Nov-91	F5	6.0350%	1.52%	5.8606%	1.030	0.1744%	2.98%
11	18-Nov-91	F6	5.9130%	1.87%	5.8606%	1.009	0.0524%	0.89%
12	27-Nov-91	F6	5.7680%	1.87%	5.8606%	0.984	-0.0926%	-1.58%
13	3-Dec-91	F5	5.9320%	1.81%	5.8606%	1.012	0.0714%	1.22%
14	10-Dec-91	F6	5.6440%	1.89%	5.8606%	0.963	-0.2166%	-3.70%
15	18-Dec-91	F5	5.8940%	1.54%	5.8606%	1.006	0.0334%	0.57%
16	23-Dec-91	F5	5.7860%	1.95%	5.8606%	0.987	-0.0746%	-1.27%
17	23-Dec-91	F6	5.8430%	1.97%	5.8606%	0.997	-0.0176%	-0.30%

**WEIGHT PERCENT 240-Pu DATA
4TH QUARTER 1991**

EG&G MOUND

#	Date Measured	Instr. ID	240-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	7-Oct-91	GENIE2	5.9425%	1.70%	5.8606%	1.014	0.0819%	1.40%
2	8-Oct-91	GENIE2	5.8682%	1.76%	5.8606%	1.001	0.0076%	0.13%
3	24-Oct-91	GENIE2	5.8633%	1.69%	5.8606%	1.000	0.0028%	0.05%
4	24-Oct-91	GENIE2	5.8682%	1.55%	5.8606%	1.001	0.0076%	0.13%
5	28-Oct-91	GENIE2	5.7839%	1.87%	5.8606%	0.987	-0.0767%	-1.31%
6	28-Oct-91	GENIE2	5.9475%	1.62%	5.8606%	1.015	0.0869%	1.48%
7	5-Nov-91	GENIE2	5.9037%	1.51%	5.8606%	1.007	0.0432%	0.74%
8	14-Nov-91	GENIE2	5.8525%	1.56%	5.8606%	0.999	-0.0081%	-0.14%
9	15-Nov-91	GENIE2	5.9631%	1.67%	5.8606%	1.017	0.1025%	1.75%
10	15-Nov-91	GENIE2	5.8310%	1.74%	5.8606%	0.995	-0.0296%	-0.51%
11	18-Nov-91	GENIE2	5.8700%	1.45%	5.8606%	1.002	0.0094%	0.16%
12	5-Dec-91	GENIE2	5.7523%	1.69%	5.8606%	0.982	-0.1083%	-1.85%
13	5-Dec-91	GENIE2	5.8979%	1.67%	5.8606%	1.006	0.0373%	0.64%
14	6-Dec-91	GENIE2	5.9136%	1.62%	5.8606%	1.009	0.0530%	0.90%
15	6-Dec-91	GENIE2	5.8229%	1.54%	5.8606%	0.994	-0.0377%	-0.64%
16	6-Dec-91	GENIE2	5.8690%	1.66%	5.8606%	1.001	0.0084%	0.14%
17	6-Dec-91	GENIE2	5.9162%	1.45%	5.8606%	1.009	0.0556%	0.95%
18	7-Dec-91	GENIE2	5.7776%	1.67%	5.8606%	0.986	-0.0830%	-1.42%

HANFORD

#	Date Measured	Instr. ID	240-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	14-Oct-91	1985	5.8934%	0.48%	5.8606%	1.006	0.0328%	0.56%
2	14-Oct-91	2424	5.9309%	0.47%	5.8606%	1.012	0.0703%	1.20%
3	15-Oct-91	2026	5.9620%	0.47%	5.8606%	1.017	0.1014%	1.73%
4	21-Oct-91	1985	5.9383%	0.50%	5.8606%	1.013	0.0777%	1.33%
5	22-Oct-91	2026	5.9102%	0.46%	5.8606%	1.008	0.0496%	0.85%
6	22-Oct-91	2424	5.9366%	0.48%	5.8606%	1.013	0.0760%	1.30%
7	28-Oct-91	2026	5.9369%	0.48%	5.8606%	1.013	0.0763%	1.30%
8	28-Oct-91	2424	5.9241%	0.45%	5.8606%	1.011	0.0635%	1.08%
9	7-Nov-91	2424	5.9361%	0.43%	5.8606%	1.013	0.0755%	1.29%
10	11-Nov-91	2424	5.8793%	0.47%	5.8606%	1.003	0.0187%	0.32%
11	14-Nov-91	2026	5.9204%	0.45%	5.8606%	1.010	0.0598%	1.02%
12	15-Nov-91	1985	5.8597%	0.52%	5.8606%	1.000	-0.0009%	-0.02%
13	19-Nov-91	1985	5.9269%	0.46%	5.8606%	1.011	0.0663%	1.13%
14	19-Nov-91	2424	5.9471%	0.44%	5.8606%	1.015	0.0865%	1.48%
15	20-Nov-91	2026	5.9249%	0.45%	5.8606%	1.011	0.0643%	1.10%
16	25-Nov-91	2026	5.9385%	0.45%	5.8606%	1.013	0.0779%	1.33%
17	25-Nov-91	1985	5.9269%	0.51%	5.8606%	1.011	0.0663%	1.13%
18	26-Nov-91	2424	5.9103%	0.48%	5.8606%	1.008	0.0497%	0.85%
19	2-Dec-91	2026	5.9613%	0.48%	5.8606%	1.017	0.1007%	1.72%
20	2-Dec-91	2424	5.9022%	0.52%	5.8606%	1.007	0.0416%	0.71%
21	5-Dec-91	1985	5.9216%	0.49%	5.8606%	1.010	0.0610%	1.04%
22	9-Dec-91	2424	5.9391%	0.43%	5.8606%	1.013	0.0785%	1.34%
23	16-Dec-91	2424	5.9424%	0.46%	5.8606%	1.014	0.0818%	1.40%

WEIGHT PERCENT 240-Pu DATA
4TH QUARTER 1991

RFP - ANAL. LAB.

#	Date Measured	Instr. ID	240-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	9-Oct-91	SYS1	5.8230%	1.02%	5.8606%	0.994	-0.0376%	-0.64%
2	21-Oct-91	SYS1	5.8525%	1.40%	5.8606%	0.999	-0.0081%	-0.14%
3	22-Oct-91	SYS2	5.7488%	1.62%	5.8606%	0.981	-0.1117%	-1.91%
4	23-Oct-91	SYS1	5.8589%	1.40%	5.8606%	1.000	-0.0017%	-0.03%
5	24-Oct-91	SYS1	5.7398%	1.43%	5.8606%	0.979	-0.1208%	-2.06%
6	24-Oct-91	SYS2	5.8784%	1.67%	5.8606%	1.003	0.0178%	0.30%
7	29-Oct-91	SYS1	5.7852%	2.06%	5.8606%	0.987	-0.0754%	-1.29%
8	29-Oct-91	SYS2	5.6968%	2.46%	5.8606%	0.972	-0.1638%	-2.80%
9	1-Nov-91	SYS1	5.8943%	3.39%	5.8606%	1.006	0.0337%	0.58%
10	1-Nov-91	SYS2	5.7268%	2.54%	5.8606%	0.977	-0.1338%	-2.28%
11	5-Nov-91	SYS1	5.7523%	3.65%	5.8606%	0.982	-0.1083%	-1.85%
12	5-Nov-91	SYS2	5.8728%	3.41%	5.8606%	1.002	0.0122%	0.21%
13	8-Nov-91	SYS1	5.8498%	1.99%	5.8606%	0.998	-0.0108%	-0.18%
14	11-Nov-91	SYS1	5.7835%	1.95%	5.8606%	0.987	-0.0771%	-1.32%
15	11-Nov-91	SYS2	5.8162%	3.05%	5.8606%	0.992	-0.0444%	-0.76%
16	13-Nov-91	SYS1	5.7772%	2.04%	5.8606%	0.986	-0.0834%	-1.42%
17	13-Nov-91	SYS1	5.7970%	2.03%	5.8606%	0.989	-0.0635%	-1.08%
18	13-Nov-91	SYS2	5.7197%	3.05%	5.8606%	0.976	-0.1409%	-2.40%
19	15-Nov-91	SYS1	5.7336%	2.28%	5.8606%	0.978	-0.1270%	-2.17%
20	15-Nov-91	SYS2	5.7354%	3.25%	5.8606%	0.979	-0.1252%	-2.14%
21	18-Nov-91	SYS1	5.7592%	1.98%	5.8606%	0.983	-0.1014%	-1.73%
22	18-Nov-91	SYS2	5.8100%	3.06%	5.8606%	0.991	-0.0506%	-0.86%
23	22-Nov-91	SYS1	5.8780%	3.47%	5.8606%	1.003	0.0174%	0.30%
24	22-Nov-91	SYS2	5.7990%	3.62%	5.8606%	0.989	-0.0616%	-1.05%
25	25-Nov-91	SYS1	5.8674%	1.97%	5.8606%	1.001	0.0068%	0.12%
26	25-Nov-91	SYS2	6.2011%	2.93%	5.8606%	1.058	0.3405%	5.81%
27	27-Nov-91	SYS1	5.7957%	2.04%	5.8606%	0.989	-0.0649%	-1.11%
28	27-Nov-91	SYS2	5.9550%	2.36%	5.8606%	1.016	0.0944%	1.61%
29	2-Dec-91	SYS1	5.6563%	2.03%	5.8606%	0.965	-0.2043%	-3.49%
30	3-Dec-91	SYS1	5.8044%	1.98%	5.8606%	0.990	-0.0562%	-0.96%
31	3-Dec-91	SYS2	5.8137%	2.46%	5.8606%	0.992	-0.0469%	-0.80%
32	6-Dec-91	SYS2	5.7501%	2.48%	5.8606%	0.981	-0.1105%	-1.89%
33	6-Dec-91	SYS1	5.6852%	2.03%	5.8606%	0.970	-0.1754%	-2.99%
34	9-Dec-91	SYS1	5.6471%	2.59%	5.8606%	0.964	-0.2135%	-3.64%
35	9-Dec-91	SYS2	5.6283%	2.54%	5.8606%	0.960	-0.2323%	-3.96%
36	12-Dec-91	SYS1	5.6035%	2.07%	5.8606%	0.956	-0.2571%	-4.39%
37	12-Dec-91	SYS2	5.7285%	3.61%	5.8606%	0.977	-0.1321%	-2.25%
38	14-Dec-91	SYS1	5.8100%	2.04%	5.8606%	0.991	-0.0506%	-0.86%
39	16-Dec-91	SYS1	5.7766%	3.11%	5.8606%	0.986	-0.0840%	-1.43%
40	16-Dec-91	SYS2	5.8971%	3.46%	5.8606%	1.006	0.0365%	0.62%
41	18-Dec-91	SYS1	5.8220%	1.99%	5.8606%	0.993	-0.0386%	-0.66%
42	18-Dec-91	SYS2	5.9709%	4.13%	5.8606%	1.019	0.1103%	1.88%
43	18-Dec-91	SYS1	5.7129%	2.07%	5.8606%	0.975	-0.1477%	-2.52%
44	18-Dec-91	SYS2	5.8560%	3.11%	5.8606%	0.999	-0.0046%	-0.08%
45	21-Dec-91	SYS1	5.7460%	2.10%	5.8606%	0.980	-0.1146%	-1.96%

SAVANNAH RIVER
NO DATA REPORTED

RESULTS OF ANALYSIS OF PERCENT 241-Pu DATA

	REPORTING LABORATORY						SRS
	CSL	LLNL	LANL	MOUND	WHO	RFP	
Mean Error (weight %)	****	-0.0001%	0.0003%	-0.0003%	-0.0007%	-0.0019%	****
Std. Dev. (weight %)	****	0.0005%	0.0004%	0.0005%	0.0007%	0.0015%	****
Unc. in Mean (weight %)	****	0.0002%	0.0001%	0.0006%	0.0001%	0.0006%	****
Mean Error (%)	****	-0.03%	0.17%	-0.16%	-0.36%	-0.96%	****
Std. Dev. (%)	****	0.24%	0.18%	0.26%	0.33%	0.73%	****
Unc. in Mean (%)	****	0.08%	0.04%	0.29%	0.07%	0.30%	****
DIFFERENCE FROM LAST PERIOD							
Diff. in Mean Error (wt. %)	****	0.0014%	0.0002%	-0.0001%	-0.0002%	-0.0006%	****
Diff. in Std. Dev. (wt. %)	****	-0.0001%	-0.0001%	-0.0002%	0.0000%	0.0003%	****
Diff. in Mean Error (%)	****	0.71%	0.13%	-0.05%	-0.11%	-0.32%	****
Diff. in Std. Dev. (%)	****	-0.03%	-0.04%	-0.08%	-0.01%	0.13%	****
Number of Data Points	0	12	17	18	23	45	0

* NO DATA REPORTED FOR THIS MEASUREMENT IN THE PREVIOUS PERIOD

LAWRENCE LIVERMORE - PERCENT 241-PU
1ST - 4TH QUARTERS 1991

LOS ALAMOS - PERCENT 241-PU
1ST - 4TH QUARTERS 1991

EG&G MOUND - PERCENT 241-Pu
1ST - 4TH QUARTERS 1991

WESTINGHOUSE HANFORD - PERCENT 241-PU 1ST - 4TH QUARTERS 1991

EG&G ROCKY FLATS - ANALYTICAL LAB.
 PERCENT 241-Pu - 3RD - 4TH QUARTERS 1991

**WEIGHT PERCENT 241-Pu DATA
4TH QUARTER 1991**

RFP - CSL

NO DATA REPORTED

LLNL

#	Date Measured	Instr. ID	241-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	9-Oct-91	1	0.2040%	0.33%	0.2047%	0.997	-0.0007%	-0.33%
2	21-Oct-91	1	0.2039%	0.34%	0.2044%	0.998	-0.0005%	-0.22%
3	30-Oct-91	1	0.2040%	0.32%	0.2041%	0.999	-0.0001%	-0.06%
4	11-Nov-91	1	0.2034%	0.28%	0.2038%	0.998	-0.0004%	-0.19%
5	14-Nov-91	1	0.2040%	0.30%	0.2037%	1.001	0.0003%	0.14%
6	14-Nov-91	1	0.2034%	0.30%	0.2037%	0.998	-0.0003%	-0.15%
7	18-Nov-91	1	0.2033%	0.27%	0.2036%	0.999	-0.0003%	-0.15%
8	19-Nov-91	1	0.2036%	0.29%	0.2036%	1.000	0.0000%	0.01%
9	20-Nov-91	1	0.2042%	0.27%	0.2035%	1.003	0.0007%	0.32%
10	21-Nov-91	1	0.2035%	0.26%	0.2035%	1.000	0.0000%	-0.01%
11	25-Nov-91	1	0.2044%	0.24%	0.2034%	1.005	0.0010%	0.48%
12	10-Dec-91	1	0.2027%	0.28%	0.2030%	0.998	-0.0003%	-0.15%

LANL

#	Date Measured	Instr. ID	241-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	2-Oct-91	F6	0.2046%	0.17%	0.2049%	0.999	-0.0003%	-0.13%
2	4-Oct-91	F5	0.2050%	0.14%	0.2048%	1.001	0.0002%	0.09%
3	9-Oct-91	F5	0.2052%	0.15%	0.2047%	1.003	0.0005%	0.25%
4	9-Oct-91	F6	0.2048%	0.17%	0.2047%	1.001	0.0001%	0.06%
5	16-Oct-91	F6	0.2045%	0.16%	0.2045%	1.000	0.0000%	0.00%
6	23-Oct-91	F5	0.2050%	0.15%	0.2043%	1.003	0.0007%	0.34%
7	30-Oct-91	F5	0.2049%	0.14%	0.2041%	1.004	0.0008%	0.39%
8	30-Oct-91	F6	0.2047%	0.17%	0.2041%	1.003	0.0006%	0.29%
9	6-Nov-91	F5	0.2041%	0.13%	0.2039%	1.001	0.0002%	0.09%
10	12-Nov-91	F5	0.2043%	0.17%	0.2038%	1.003	0.0005%	0.26%
11	18-Nov-91	F6	0.2040%	0.16%	0.2036%	1.002	0.0004%	0.20%
12	27-Nov-91	F6	0.2038%	0.16%	0.2034%	1.002	0.0004%	0.22%
13	3-Dec-91	F5	0.2028%	0.16%	0.2032%	0.998	-0.0004%	-0.20%
14	10-Dec-91	F6	0.2040%	0.14%	0.2030%	1.005	0.0010%	0.49%
15	18-Dec-91	F5	0.2033%	0.17%	0.2028%	1.002	0.0005%	0.25%
16	23-Dec-91	F5	0.2032%	0.16%	0.2027%	1.003	0.0005%	0.26%
17	23-Dec-91	F6	0.2027%	0.18%	0.2027%	1.000	0.0000%	0.02%

**WEIGHT PERCENT 241-Pu DATA
4TH QUARTER 1991**

EG&G MOUND

#	Date Measured	Instr. ID	241-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	7-Oct-91	GENIE2	0.2047%	1.27%	0.2047%	1.000	0.0000%	0.00%
2	8-Oct-91	GENIE2	0.2043%	1.29%	0.2047%	0.998	-0.0004%	-0.18%
3	24-Oct-91	GENIE2	0.2036%	1.24%	0.2043%	0.997	-0.0007%	-0.34%
4	24-Oct-91	GENIE2	0.2040%	1.18%	0.2043%	0.999	-0.0002%	-0.11%
5	28-Oct-91	GENIE2	0.2039%	1.36%	0.2042%	0.998	-0.0003%	-0.15%
6	28-Oct-91	GENIE2	0.2040%	1.19%	0.2042%	0.999	-0.0002%	-0.10%
7	5-Nov-91	GENIE2	0.2032%	1.15%	0.2040%	0.996	-0.0007%	-0.36%
8	14-Nov-91	GENIE2	0.2029%	1.17%	0.2037%	0.996	-0.0009%	-0.42%
9	15-Nov-91	GENIE2	0.2024%	1.24%	0.2037%	0.994	-0.0013%	-0.62%
10	15-Nov-91	GENIE2	0.2043%	1.29%	0.2037%	1.003	0.0006%	0.31%
11	18-Nov-91	GENIE2	0.2039%	1.08%	0.2036%	1.001	0.0002%	0.12%
12	5-Dec-91	GENIE2	0.2030%	1.25%	0.2031%	0.999	-0.0002%	-0.08%
13	5-Dec-91	GENIE2	0.2018%	1.25%	0.2031%	0.993	-0.0013%	-0.66%
14	6-Dec-91	GENIE2	0.2026%	1.20%	0.2031%	0.998	-0.0005%	-0.24%
15	6-Dec-91	GENIE2	0.2027%	1.13%	0.2031%	0.998	-0.0004%	-0.19%
16	6-Dec-91	GENIE2	0.2036%	1.26%	0.2031%	1.002	0.0005%	0.22%
17	6-Dec-91	GENIE2	0.2032%	1.10%	0.2031%	1.000	0.0001%	0.03%
18	7-Dec-91	GENIE2	0.2028%	1.24%	0.2031%	0.999	-0.0003%	-0.13%

HANFORD

#	Date Measured	Instr. ID	241-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	14-Oct-91	1985	0.2034%	0.35%	0.2045%	0.994	-0.0011%	-0.56%
2	14-Oct-91	2424	0.2043%	0.35%	0.2045%	0.999	-0.0002%	-0.12%
3	15-Oct-91	2026	0.2040%	0.35%	0.2045%	0.997	-0.0005%	-0.25%
4	21-Oct-91	1985	0.2032%	0.36%	0.2044%	0.994	-0.0012%	-0.57%
5	22-Oct-91	2026	0.2033%	0.34%	0.2043%	0.995	-0.0010%	-0.50%
6	22-Oct-91	2424	0.2035%	0.36%	0.2043%	0.996	-0.0008%	-0.41%
7	28-Oct-91	2026	0.2035%	0.36%	0.2042%	0.997	-0.0007%	-0.33%
8	28-Oct-91	2424	0.2038%	0.34%	0.2042%	0.998	-0.0004%	-0.18%
9	7-Nov-91	2424	0.2041%	0.32%	0.2039%	1.001	0.0002%	0.10%
10	11-Nov-91	2424	0.2020%	0.35%	0.2038%	0.991	-0.0018%	-0.88%
11	14-Nov-91	2026	0.2031%	0.33%	0.2037%	0.997	-0.0006%	-0.30%
12	15-Nov-91	1985	0.2024%	0.37%	0.2037%	0.994	-0.0013%	-0.63%
13	19-Nov-91	1985	0.2036%	0.33%	0.2036%	1.000	0.0000%	0.01%
14	19-Nov-91	2424	0.2025%	0.33%	0.2036%	0.995	-0.0011%	-0.53%
15	20-Nov-91	2026	0.2039%	0.33%	0.2035%	1.002	0.0004%	0.17%
16	25-Nov-91	2026	0.2033%	0.33%	0.2034%	0.999	-0.0001%	-0.06%
17	25-Nov-91	1985	0.2022%	0.37%	0.2034%	0.994	-0.0012%	-0.60%
18	26-Nov-91	2424	0.2030%	0.36%	0.2034%	0.998	-0.0004%	-0.19%
19	2-Dec-91	2026	0.2011%	0.36%	0.2032%	0.990	-0.0021%	-1.05%
20	2-Dec-91	2424	0.2019%	0.39%	0.2032%	0.993	-0.0013%	-0.65%
21	5-Dec-91	1985	0.2022%	0.36%	0.2031%	0.995	-0.0009%	-0.47%
22	9-Dec-91	2424	0.2020%	0.36%	0.2030%	0.995	-0.0010%	-0.51%
23	16-Dec-91	2424	0.2034%	0.34%	0.2029%	1.003	0.0005%	0.27%

**WEIGHT PERCENT 241-Pu DATA
4TH QUARTER 1991**

RFP - ANAL. LAB.

#	Date Measured	Instr. ID	241-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	9-Oct-91	SYS1	0.2027%	0.84%	0.2047%	0.990	-0.0020%	-0.97%
2	21-Oct-91	SYS1	0.2027%	1.16%	0.2044%	0.992	-0.0016%	-0.80%
3	22-Oct-91	SYS2	0.2022%	1.20%	0.2043%	0.990	-0.0021%	-1.04%
4	23-Oct-91	SYS1	0.2035%	1.15%	0.2043%	0.996	-0.0008%	-0.41%
5	24-Oct-91	SYS1	0.2019%	1.18%	0.2043%	0.988	-0.0024%	-1.18%
6	24-Oct-91	SYS2	0.2028%	1.27%	0.2043%	0.993	-0.0015%	-0.74%
7	29-Oct-91	SYS1	0.2013%	1.77%	0.2041%	0.986	-0.0028%	-1.40%
8	29-Oct-91	SYS2	0.2055%	1.85%	0.2041%	1.007	0.0014%	0.67%
9	1-Nov-91	SYS1	0.2029%	4.11%	0.2041%	0.994	-0.0011%	-0.56%
10	1-Nov-91	SYS2	0.2023%	1.91%	0.2041%	0.992	-0.0017%	-0.84%
11	5-Nov-91	SYS1	0.2008%	2.68%	0.2040%	0.985	-0.0031%	-1.54%
12	5-Nov-91	SYS2	0.1992%	2.45%	0.2040%	0.977	-0.0047%	-2.31%
13	8-Nov-91	SYS1	0.2015%	1.63%	0.2039%	0.989	-0.0023%	-1.15%
14	11-Nov-91	SYS1	0.2019%	1.59%	0.2038%	0.991	-0.0019%	-0.95%
15	11-Nov-91	SYS2	0.2023%	2.20%	0.2038%	0.993	-0.0014%	-0.71%
16	13-Nov-91	SYS1	0.2032%	1.77%	0.2037%	0.997	-0.0006%	-0.28%
17	13-Nov-91	SYS1	0.2019%	1.69%	0.2037%	0.991	-0.0018%	-0.89%
18	13-Nov-91	SYS2	0.2015%	2.21%	0.2037%	0.989	-0.0022%	-1.09%
19	15-Nov-91	SYS1	0.1996%	1.80%	0.2037%	0.980	-0.0041%	-1.99%
20	15-Nov-91	SYS2	0.2031%	2.34%	0.2037%	0.997	-0.0006%	-0.29%
21	18-Nov-91	SYS1	0.2024%	1.64%	0.2036%	0.994	-0.0012%	-0.60%
22	18-Nov-91	SYS2	0.2014%	2.20%	0.2036%	0.989	-0.0022%	-1.07%
23	22-Nov-91	SYS1	0.2032%	2.58%	0.2035%	0.999	-0.0003%	-0.12%
24	22-Nov-91	SYS2	0.2016%	2.60%	0.2035%	0.991	-0.0019%	-0.91%
25	25-Nov-91	SYS1	0.2005%	1.66%	0.2034%	0.986	-0.0029%	-1.45%
26	25-Nov-91	SYS2	0.1982%	2.14%	0.2034%	0.974	-0.0052%	-2.58%
27	27-Nov-91	SYS1	0.2029%	1.53%	0.2034%	0.998	-0.0005%	-0.24%
28	27-Nov-91	SYS2	0.2019%	1.80%	0.2034%	0.993	-0.0015%	-0.74%
29	2-Dec-91	SYS1	0.2029%	1.54%	0.2032%	0.998	-0.0003%	-0.17%
30	3-Dec-91	SYS1	0.2027%	1.48%	0.2032%	0.998	-0.0005%	-0.23%
31	3-Dec-91	SYS2	0.2009%	1.89%	0.2032%	0.988	-0.0023%	-1.15%
32	6-Dec-91	SYS2	0.1994%	1.93%	0.2031%	0.982	-0.0037%	-1.83%
33	6-Dec-91	SYS1	0.1996%	1.52%	0.2031%	0.983	-0.0035%	-1.71%
34	9-Dec-91	SYS1	0.2010%	2.00%	0.2030%	0.990	-0.0020%	-0.99%
35	9-Dec-91	SYS2	0.2040%	1.96%	0.2030%	1.005	0.0009%	0.46%
36	12-Dec-91	SYS1	0.2019%	1.57%	0.2030%	0.995	-0.0011%	-0.54%
37	12-Dec-91	SYS2	0.2023%	2.72%	0.2030%	0.997	-0.0007%	-0.35%
38	14-Dec-91	SYS1	0.2015%	1.55%	0.2029%	0.993	-0.0014%	-0.68%
39	16-Dec-91	SYS1	0.2033%	2.31%	0.2029%	1.002	0.0004%	0.21%
40	16-Dec-91	SYS2	0.1984%	2.46%	0.2029%	0.978	-0.0044%	-2.17%
41	18-Dec-91	SYS1	0.1990%	1.69%	0.2028%	0.981	-0.0038%	-1.88%
42	18-Dec-91	SYS2	0.2016%	2.91%	0.2028%	0.994	-0.0012%	-0.57%
43	18-Dec-91	SYS1	0.1979%	1.71%	0.2028%	0.976	-0.0049%	-2.41%
44	18-Dec-91	SYS2	0.2003%	2.26%	0.2028%	0.988	-0.0025%	-1.23%
45	21-Dec-91	SYS1	0.1995%	1.73%	0.2027%	0.984	-0.0032%	-1.58%

**SAVANNAH RIVER
NO DATA REPORTED**

RESULTS OF ANALYSIS OF PERCENT 241-Am DATA

	REPORTING LABORATORY						
	CSL	LLNL	LANL	MOUND	WHO	RFP	SRS
Mean Error (weight %)	****	-0.0029%	-0.0019%	-0.0006%	-0.0018%	-0.0022%	****
Std. Dev. (weight %)	****	0.0003%	0.0015%	0.0007%	0.0005%	0.0018%	****
Unc. in Mean (weight %)	****	0.0002%	0.0003%	0.0005%	0.0001%	0.0005%	****
Mean Error (%)	****	-1.66%	-1.12%	-0.36%	-1.02%	-1.25%	****
Std. Dev. (%)	****	0.16%	0.85%	0.38%	0.31%	1.03%	****
Unc. in Mean (%)	****	0.10%	0.19%	0.30%	0.08%	0.29%	****
DIFFERENCE FROM LAST PERIOD							
Diff. in Mean Error (wt. %)	****	-0.0003%	-0.0006%	-0.0004%	0.0001%	0.0030%	****
Diff. in Std. Dev. (wt. %)	****	0.0000%	-0.0004%	0.0000%	0.0000%	-0.0012%	****
Diff. in Mean Error (%)	****	-0.10%	-0.36%	-0.24%	0.13%	1.77%	****
Diff. in Std. Dev. (%)	****	0.00%	-0.27%	-0.02%	0.00%	-0.72%	****
Number of Data Points	0	12	17	18	23	45	0

* NO DATA REPORTED FOR THIS MEASUREMENT IN THE PREVIOUS PERIOD

LAWRENCE LIVERMORE - PERCENT 241-AM
1ST - 4TH QUARTERS 1991

LOS ALAMOS - PERCENT 241-AM
1ST - 4TH QUARTERS 1991

EG&G MOUND - PERCENT 241-AM 1ST - 4TH QUARTERS 1991

WESTINGHOUSE HANFORD - PERCENT 241-AM 1ST - 4TH QUARTERS 1991

EG&G ROCKY FLATS - ANALYTICAL LAB.
PERCENT 241-AM - 3RD - 4TH QUARTERS 1991

WEIGHT PERCENT 241-Am DATA
4TH QUARTER 1991

RFP - CSL

NO DATA REPORTED

LLNL

#	Date Measured	Instr. ID	241-Am	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	9-Oct-91	1	0.1685%	0.36%	0.1715%	0.982	-0.0030%	-1.75%
2	21-Oct-91	1	0.1688%	0.37%	0.1718%	0.982	-0.0030%	-1.76%
3	30-Oct-91	1	0.1692%	0.35%	0.1721%	0.983	-0.0029%	-1.66%
4	11-Nov-91	1	0.1694%	0.31%	0.1724%	0.983	-0.0030%	-1.73%
5	14-Nov-91	1	0.1694%	0.34%	0.1725%	0.982	-0.0031%	-1.77%
6	14-Nov-91	1	0.1694%	0.35%	0.1725%	0.982	-0.0031%	-1.77%
7	18-Nov-91	1	0.1696%	0.31%	0.1726%	0.983	-0.0030%	-1.72%
8	19-Nov-91	1	0.1699%	0.33%	0.1726%	0.984	-0.0027%	-1.56%
9	20-Nov-91	1	0.1703%	0.31%	0.1726%	0.987	-0.0023%	-1.34%
10	21-Nov-91	1	0.1694%	0.30%	0.1726%	0.981	-0.0032%	-1.88%
11	25-Nov-91	1	0.1701%	0.28%	0.1727%	0.985	-0.0026%	-1.53%
12	10-Dec-91	1	0.1707%	0.33%	0.1731%	0.986	-0.0024%	-1.41%

LANL

#	Date Measured	Instr. ID	241-Am	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	2-Oct-91	F6	0.1683%	0.84%	0.1713%	0.982	-0.0030%	-1.76%
2	4-Oct-91	F5	0.1671%	0.69%	0.1714%	0.975	-0.0043%	-2.50%
3	9-Oct-91	F5	0.1722%	0.73%	0.1715%	1.004	0.0007%	0.40%
4	9-Oct-91	F6	0.1707%	0.87%	0.1715%	0.995	-0.0008%	-0.47%
5	16-Oct-91	F6	0.1695%	0.80%	0.1717%	0.987	-0.0022%	-1.28%
6	23-Oct-91	F5	0.1688%	0.72%	0.1719%	0.982	-0.0031%	-1.79%
7	30-Oct-91	F5	0.1718%	0.68%	0.1721%	0.998	-0.0003%	-0.15%
8	30-Oct-91	F6	0.1708%	0.83%	0.1721%	0.993	-0.0013%	-0.73%
9	6-Nov-91	F5	0.1707%	0.66%	0.1722%	0.991	-0.0015%	-0.90%
10	12-Nov-91	F5	0.1690%	0.70%	0.1724%	0.980	-0.0034%	-1.97%
11	18-Nov-91	F6	0.1725%	0.84%	0.1726%	1.000	-0.0001%	-0.04%
12	27-Nov-91	F6	0.1721%	0.82%	0.1728%	0.996	-0.0007%	-0.40%
13	3-Dec-91	F5	0.1714%	0.79%	0.1730%	0.991	-0.0016%	-0.90%
14	10-Dec-91	F6	0.1687%	0.82%	0.1731%	0.974	-0.0044%	-2.56%
15	18-Dec-91	F5	0.1717%	0.68%	0.1733%	0.991	-0.0016%	-0.95%
16	23-Dec-91	F5	0.1707%	0.84%	0.1735%	0.984	-0.0028%	-1.60%
17	23-Dec-91	F6	0.1710%	0.88%	0.1735%	0.986	-0.0025%	-1.43%

**WEIGHT PERCENT 241-Am DATA
4TH QUARTER 1991**

EG&G MOUND

#	Date Measured	Instr. ID	241-Am	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	7-Oct-91	GENIE2	0.1708%	1.32%	0.1715%	0.996	-0.0007%	-0.40%
2	8-Oct-91	GENIE2	0.1692%	1.36%	0.1715%	0.987	-0.0023%	-1.33%
3	24-Oct-91	GENIE2	0.1705%	1.30%	0.1719%	0.992	-0.0014%	-0.79%
4	24-Oct-91	GENIE2	0.1711%	1.21%	0.1719%	0.995	-0.0008%	-0.47%
5	28-Oct-91	GENIE2	0.1715%	1.44%	0.1720%	0.997	-0.0005%	-0.28%
6	28-Oct-91	GENIE2	0.1713%	1.27%	0.1720%	0.996	-0.0007%	-0.40%
7	5-Nov-91	GENIE2	0.1724%	1.17%	0.1722%	1.001	0.0001%	0.08%
8	14-Nov-91	GENIE2	0.1727%	1.22%	0.1725%	1.002	0.0003%	0.16%
9	15-Nov-91	GENIE2	0.1719%	1.29%	0.1725%	0.996	-0.0006%	-0.36%
10	15-Nov-91	GENIE2	0.1726%	1.34%	0.1725%	1.001	0.0001%	0.06%
11	18-Nov-91	GENIE2	0.1719%	1.12%	0.1726%	0.996	-0.0006%	-0.36%
12	5-Dec-91	GENIE2	0.1732%	1.30%	0.1730%	1.001	0.0002%	0.12%
13	5-Dec-91	GENIE2	0.1726%	1.29%	0.1730%	0.997	-0.0004%	-0.26%
14	6-Dec-91	GENIE2	0.1726%	1.25%	0.1730%	0.998	-0.0004%	-0.24%
15	6-Dec-91	GENIE2	0.1717%	1.20%	0.1730%	0.993	-0.0013%	-0.74%
16	6-Dec-91	GENIE2	0.1720%	1.29%	0.1730%	0.994	-0.0010%	-0.57%
17	6-Dec-91	GENIE2	0.1718%	1.14%	0.1730%	0.993	-0.0013%	-0.73%
18	7-Dec-91	GENIE2	0.1730%	1.30%	0.1731%	0.999	-0.0001%	-0.05%

HANFORD

#	Date Measured	Instr. ID	241-Am	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	14-Oct-91	1985	0.1703%	0.38%	0.1716%	0.992	-0.0013%	-0.78%
2	14-Oct-91	2424	0.1701%	0.38%	0.1716%	0.991	-0.0015%	-0.90%
3	15-Oct-91	2026	0.1698%	0.38%	0.1717%	0.989	-0.0019%	-1.09%
4	21-Oct-91	1985	0.1699%	0.40%	0.1718%	0.989	-0.0019%	-1.12%
5	22-Oct-91	2026	0.1696%	0.37%	0.1719%	0.987	-0.0023%	-1.31%
6	22-Oct-91	2424	0.1698%	0.38%	0.1719%	0.988	-0.0021%	-1.19%
7	28-Oct-91	2026	0.1691%	0.39%	0.1720%	0.983	-0.0029%	-1.69%
8	28-Oct-91	2424	0.1707%	0.36%	0.1720%	0.992	-0.0013%	-0.76%
9	7-Nov-91	2424	0.1710%	0.35%	0.1723%	0.993	-0.0013%	-0.74%
10	11-Nov-91	2424	0.1705%	0.37%	0.1724%	0.989	-0.0019%	-1.09%
11	14-Nov-91	2026	0.1702%	0.36%	0.1725%	0.987	-0.0023%	-1.31%
12	15-Nov-91	1985	0.1702%	0.41%	0.1725%	0.987	-0.0023%	-1.32%
13	19-Nov-91	1985	0.1719%	0.36%	0.1726%	0.996	-0.0007%	-0.40%
14	19-Nov-91	2424	0.1707%	0.35%	0.1726%	0.989	-0.0019%	-1.09%
15	20-Nov-91	2026	0.1703%	0.36%	0.1726%	0.987	-0.0023%	-1.34%
16	25-Nov-91	2026	0.1702%	0.36%	0.1727%	0.985	-0.0025%	-1.47%
17	25-Nov-91	1985	0.1711%	0.41%	0.1727%	0.990	-0.0016%	-0.95%
18	26-Nov-91	2424	0.1715%	0.38%	0.1728%	0.993	-0.0013%	-0.74%
19	2-Dec-91	2026	0.1709%	0.39%	0.1729%	0.988	-0.0020%	-1.17%
20	2-Dec-91	2424	0.1716%	0.42%	0.1729%	0.992	-0.0013%	-0.77%
21	5-Dec-91	1985	0.1714%	0.39%	0.1730%	0.991	-0.0016%	-0.93%
22	9-Dec-91	2424	0.1717%	0.39%	0.1731%	0.992	-0.0014%	-0.82%
23	16-Dec-91	2424	0.1723%	0.37%	0.1733%	0.994	-0.0010%	-0.57%

WEIGHT PERCENT 241-Am DATA
4TH QUARTER 1991

RFP - ANAL. LAB.

#	Date Measured	Instr. ID	241-Am	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	9-Oct-91	SYS1	0.1699%	0.76%	0.1715%	0.991	-0.0016%	-0.95%
2	21-Oct-91	SYS1	0.1713%	1.05%	0.1718%	0.997	-0.0005%	-0.29%
3	22-Oct-91	SYS2	0.1695%	1.23%	0.1719%	0.986	-0.0024%	-1.39%
4	23-Oct-91	SYS1	0.1696%	1.05%	0.1719%	0.987	-0.0022%	-1.31%
5	24-Oct-91	SYS1	0.1714%	1.07%	0.1719%	0.997	-0.0006%	-0.32%
6	24-Oct-91	SYS2	0.1716%	1.25%	0.1719%	0.998	-0.0003%	-0.20%
7	29-Oct-91	SYS1	0.1696%	1.57%	0.1720%	0.986	-0.0025%	-1.43%
8	29-Oct-91	SYS2	0.1687%	1.86%	0.1720%	0.981	-0.0033%	-1.94%
9	1-Nov-91	SYS1	0.1736%	2.50%	0.1721%	1.009	0.0015%	0.85%
10	1-Nov-91	SYS2	0.1710%	1.94%	0.1721%	0.994	-0.0011%	-0.65%
11	5-Nov-91	SYS1	0.1716%	2.74%	0.1722%	0.996	-0.0006%	-0.35%
12	5-Nov-91	SYS2	0.1692%	2.60%	0.1722%	0.982	-0.0031%	-1.78%
13	8-Nov-91	SYS1	0.1695%	1.51%	0.1723%	0.984	-0.0028%	-1.64%
14	11-Nov-91	SYS1	0.1700%	1.48%	0.1724%	0.986	-0.0024%	-1.40%
15	11-Nov-91	SYS2	0.1660%	2.32%	0.1724%	0.963	-0.0064%	-3.71%
16	13-Nov-91	SYS1	0.1711%	1.54%	0.1724%	0.992	-0.0013%	-0.78%
17	13-Nov-91	SYS1	0.1702%	1.53%	0.1724%	0.987	-0.0022%	-1.28%
18	13-Nov-91	SYS2	0.1702%	2.30%	0.1724%	0.987	-0.0023%	-1.31%
19	15-Nov-91	SYS1	0.1706%	1.73%	0.1725%	0.989	-0.0019%	-1.08%
20	15-Nov-91	SYS2	0.1707%	2.47%	0.1725%	0.990	-0.0018%	-1.03%
21	18-Nov-91	SYS1	0.1710%	1.51%	0.1726%	0.991	-0.0015%	-0.89%
22	18-Nov-91	SYS2	0.1697%	2.28%	0.1726%	0.984	-0.0028%	-1.64%
23	22-Nov-91	SYS1	0.1716%	2.56%	0.1727%	0.994	-0.0011%	-0.64%
24	22-Nov-91	SYS2	0.1717%	2.73%	0.1727%	0.994	-0.0010%	-0.55%
25	25-Nov-91	SYS1	0.1713%	1.50%	0.1727%	0.992	-0.0014%	-0.83%
26	25-Nov-91	SYS2	0.1701%	2.25%	0.1727%	0.985	-0.0026%	-1.51%
27	27-Nov-91	SYS1	0.1713%	1.53%	0.1728%	0.991	-0.0015%	-0.89%
28	27-Nov-91	SYS2	0.1686%	1.80%	0.1728%	0.976	-0.0042%	-2.42%
29	2-Dec-91	SYS1	0.1719%	1.54%	0.1729%	0.994	-0.0011%	-0.61%
30	3-Dec-91	SYS1	0.1720%	1.48%	0.1730%	0.994	-0.0010%	-0.57%
31	3-Dec-91	SYS2	0.1705%	1.89%	0.1730%	0.986	-0.0025%	-1.44%
32	6-Dec-91	SYS2	0.1708%	1.93%	0.1730%	0.987	-0.0023%	-1.31%
33	6-Dec-91	SYS1	0.1727%	1.52%	0.1730%	0.998	-0.0004%	-0.21%
34	9-Dec-91	SYS1	0.1706%	2.00%	0.1731%	0.985	-0.0025%	-1.46%
35	9-Dec-91	SYS2	0.1707%	1.96%	0.1731%	0.986	-0.0024%	-1.39%
36	12-Dec-91	SYS1	0.1696%	1.57%	0.1732%	0.979	-0.0036%	-2.05%
37	12-Dec-91	SYS2	0.1698%	2.72%	0.1732%	0.980	-0.0034%	-1.97%
38	14-Dec-91	SYS1	0.1723%	1.55%	0.1732%	0.995	-0.0009%	-0.52%
39	16-Dec-91	SYS1	0.1711%	2.31%	0.1733%	0.987	-0.0022%	-1.27%
40	16-Dec-91	SYS2	0.1701%	2.65%	0.1733%	0.982	-0.0032%	-1.82%
41	18-Dec-91	SYS1	0.1718%	1.52%	0.1733%	0.991	-0.0016%	-0.91%
42	18-Dec-91	SYS2	0.1633%	3.13%	0.1733%	0.942	-0.0101%	-5.81%
43	18-Dec-91	SYS1	0.1727%	1.57%	0.1733%	0.996	-0.0006%	-0.36%
44	18-Dec-91	SYS2	0.1689%	2.38%	0.1733%	0.974	-0.0045%	-2.57%
45	21-Dec-91	SYS1	0.1726%	1.59%	0.1734%	0.996	-0.0008%	-0.45%

SAVANNAH RIVER
NO DATA REPORTED

CALORIMETRY EXCHANGE SAMPLE ON 01/01/89

Isotope	PPM Isotope / 239-Pu	% Isotope / Pu	% Uncertainty *
238-Pu	101	0.00944	0.6
239-Pu	1,000,000	93.8676	0.003
240-Pu	62,168	5.8600	0.06
241-Pu	2471	0.2338	0.57
242-Pu	306	0.0291	5.0
241-Am	1509	0.1429	0.4

Power = 0.9759 Watts +/- 0.07%

P-effective = 2.450 mW/g +/- 0.05%

* Uncertainties shown for Pu isotopes are one standard deviation, as found using the data reported by four labs which made the reference measurements on the sample in 1982.

CONSTANTS

Isotope	Decay Constant (day)**	Specific Power (W/g)
238-Pu	2.1630E-05	0.56757
239-Pu	7.8684E-08	1.9288E-03
240-Pu	2.8912E-07	7.0824E-03
241-Pu	1.3227E-04	3.4120E-03
242-Pu	5.0432E-09	1.1590E-04
241-Am	4.3768E-06	0.11420

** Reference: ANSI 15.22-1987 (Plutonium Bearing Solids - Calibration Techniques for Calorimetric Assay), page 22 (Table 4)

CALORIMETRY EXCHANGE PROGRAM MAILING LIST

Chris Ortel
EG&G Rocky Flats
Bldg. 750
P. O. Box 464
Golden, CO 80402

Larry Navratil
EG&G Rocky Flats
Bldg. 750
P. O. Box 464
Golden, CO 80402

Mark Spivey
EG&G Rocky Flats
Bldg. 750
P. O. Box 464
Golden, CO 80402

Ralph C. Nelson
EG&G Rocky Flats
P. O. Box 464
Golden, CO 80402

Jim Brown
EG&G Rocky Flats
P. O. Box 464
Golden, CO 80402

William Sedlacek
Los Alamos National Laboratory
MS G731
P. O. Box 1663
Los Alamos, NM 87545

Bruce Erkill
Los Alamos National Laboratory
MS E540
P. O. Box 1663
Los Alamos, NM 87545

Jon Hurd
Los Alamos National Laboratory
MS E513
P. O. Box 1663
Los Alamos, NM 87545

John G. Fleissner
EG&G Rocky Flats
P. O. Box 464
Golden, CO 80402

Fred Lyons
EG&G Rocky Flats
Bldg. 750
P. O. Box 464
Golden, CO 80402

Randy Kawamoto
EG&G Rocky Flats
P. O. Box 464
Golden, CO 80402

John West
EG&G Rocky Flats
P. O. Box 464
Golden, CO 80402

Louis Perez
Albuquerque Operations Office
P. O. Box 5400
Albuquerque, NM 87115

Thomas E. Sampson
Los Alamos National Laboratory
N-1; MS E540
P. O. Box 1663
Los Alamos, NM 87545

Robert S. Marshall
Los Alamos National Laboratory
MS E508
P. O. Box 1663
Los Alamos, NM 87545

Faye Hsue
Los Alamos National Laboratory
MS E508
P. O. Box 1663
Los Alamos, NM 87545

Patricia A. Hyman
EG&G Rocky Flats
Bldg. 750
P. O. Box 464
Golden, CO 80402

Jerald Zarret
EG&G Rocky Flats
Bldg. 750
P. O. Box 464
Golden, CO 80402

Jim Bradshaw
EG&G Rocky Flats
P. O. Box 464
Golden, CO 80402

Jack McBride
EG&G Rocky Flats
P. O. Box 464
Golden, CO 80402

Tom Ricketts
Los Alamos National Laboratory
P. O. Box 1663
Los Alamos, NM 87545

Aaron Goldman
Los Alamos National Laboratory
P. O. Box 1663
Los Alamos, NM 87545

Ray Wagner
Los Alamos National Laboratory
P. O. Box 1663
Los Alamos, NM 87545

Teresa Cremers
Los Alamos National Laboratory
MS E513
P. O. Box 1663
Los Alamos, NM 87545

CALORIMETRY EXCHANGE PROGRAM MAILING LIST

(continued)

Lloyd Cohan
Los Alamos National Laboratory
P. O. Box 1663
Los Alamos, NM 87545

Steven Long
Los Alamos National Laboratory
MS E513
P. O. Box 1663
Los Alamos, NM 87545

Sharon Schumacher
Lawrence Livermore National Lab.
L-347
P. O. Box 808
Livermore, CA 94550

Austin Prindle
Lawrence Livermore National Lab.
L-233
P. O. Box 808
Livermore, CA 94550

Dave Parks
Lawrence Livermore National Lab.
L-347
P. O. Box 808
Livermore, CA 94550

G. Dan Smith
U. S. Department of Energy
Office of Safeguards & Security
Washington, D.C. 20545

David Crawford
U. S. Department of Energy
Office of Safeguards & Security
Washington, D.C. 20545

Ron Cherry
U. S. Department of Energy
Office of Safeguards & Security
Washington, D.C. 20545

Richard A. Hamilton
Westinghouse Hanford Company
MSIN T5-06
P. O. Box 1970
Richland, WA 99352

A. E. Schilling
Westinghouse Hanford Company
MSIN T5-05
P. O. Box 1970
Richland, WA 99352

Owen Kruger
Westinghouse Hanford Company
P. O. Box 1970
Richland, WA 99352

D. A. Puryear
Westinghouse Hanford Company
MSIN T4-40
P. O. Box 1970
Richland, WA 99352

W. C. Johnson
U. S. Department of Energy
Richland Operations Office
Richland, WA 99352

Dr. C. D. Bingham
New Brunswick Laboratory
9800 Cass Avenue
Argonne, IL 60439

John Clark
Westinghouse Savannah River
Corp.
703-42A
Aiken, SC 29801

Linda Baker
Westinghouse Savannah River
772-F
Aiken, SC 29801

Bill Boyce
Westinghouse Savannah River
232-H
Aiken, SC 29801

Jerry L. Meitin
Westinghouse Savannah River
703-42A
Aiken, SC 29801

Jilene H. Weber
Westinghouse Savannah River
703-42A
Aiken, SC 29801

Gary P. Wills
Westinghouse Savannah River
Aiken, SC 29801

Ronnie Gunter
Westinghouse Savannah River
Aiken, SC 29801

Leo Barnes
General Electric Company
P. O. Box 2908
Largo, FL 34649