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MOUND APPLIED TECHNOLOGIES

CALORIMETRY EXCHANGE PROGRAM

QUARTERLY DATA REPORT

1ST QUARTER CY93

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CALORIMETRY EXCHANGE PROGRAM

QUARTERLY DATA REPORT

1ST QUARTER CY93

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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 PuO_2 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. The data report includes summary tables for each measurement and charts showing the performance of each laboratory. Comparisons are made to the accepted values for the exchange sample and to data previously reported by that laboratory. This information is presented, in the form of quarterly and annual reports, 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.

SUMMARY TABLE

% DIFFERENCE FROM ACCEPTED VALUES FOR THE CALORIMETRY EXCHANGE SAMPLE

	LIVERMORE	LOS ALAMOS	MOUND	HANFORD	ROCKY CSL	FLATS AL	SAVANNAH RIVER
POWER	0.83	0.03	0.08	-0.12	**	0.29	*
P-EFF	-0.26	0.09	0.12	0.09	**	-1.27	*
238/239 Pu	-0.90	1.54	2.25	3.19	**	17.89	*
240/239 Pu	-0.40	0.37	0.31	1.08	**	1.37	*
241/239 Pu	-0.82	0.30	-1.28	-0.25	**	0.39	*
Am/239 Pu	-1.65	0.82	0.45	-0.87	**	0.6	*
% 238 Pu	-0.88	1.51	2.26	3.13	**	17.81	*
% 239 Pu	0.03	-0.02	0.01	-0.06	**	-0.05	*
% 240 Pu	-0.38	0.35	0.32	1.02	**	1.31	*
% 241 Pu	-0.79	0.28	-1.27	-0.31	**	0.34	*
% 241 Am	-1.62	0.80	0.46	-0.93	**	0.55	*

* No data submitted since third quarter of CY88.

** No data submitted for this measurement this quarter.

RESULTS OF ANALYSIS OF POWER DATA

First Quarter 1993

REPORTING LABORATORY

	CSL	LLNL	LANL	MOUND	WHO	RFP	SRS
Mean Error (mW)	****	8.263	0.336	0.814	-1.181	2.892	****
Std. Dev. (mW)	****	11.593	1.651	1.393	2.520	1.865	****
Unc. in Mean (mW)	****	1.669	0.573	0.297	0.759	0.956	****
Mean Error (%)	****	0.83%	0.03%	0.08%	-0.12%	0.29%	****
Std. Dev. (%)	****	1.17%	0.17%	0.14%	0.25%	0.19%	****
Unc. in Mean (%)	****	0.17%	0.06%	0.03%	0.08%	0.09%	****
<u>DIFFERENCE FROM LAST PERIOD</u>							
Diff. in Mean Error (mW)	****	2.979	-0.262	0.191	-0.482	*	****
Diff. in Std. Dev. (mW)	****	-1.948	-0.064	0.150	-0.628	*	****
Diff. in Mean Error (%)	****	0.30%	-0.03%	0.02%	-0.05%	*	****
Diff. in Std. Dev. (%)	****	-0.19%	0.00%	0.01%	-0.07%	*	****
Number of Data Points	0	9	9	28	12	54	0

* NO DATA REPORTED FOR THIS MEASUREMENT IN THE PREVIOUS PERIOD

LAWRENCE LIVERMORE - POWER DATA

2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

LOS ALAMOS - POWER DATA **2ND QUARTER 1992 - 1ST QUARTERS 1993**

Date

All standard deviation and uncertainty limits are at two-sigma.

EG&G MOUND - POWER DATA

2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

WESTINGHOUSE HANFORD - POWER DATA 2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

EG&G ROCKY FLATS - ANALYTICAL LAB. POWER DATA - 2ND QUARTER 1992- 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

CALORIMETER DATA
FIRST QUARTER 1993

ROCKY FLATS PLANT - 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	8-Jan-93	2	1.0084	0.50%	0.9930	1.016	15.442	1.56%
2	11-Jan-93	32	0.9880	0.50%	0.9930	0.995	-4.989	-0.50%
3	25-Jan-93	30	1.0061	0.50%	0.9931	1.013	12.967	1.31%
4	1-Feb-93	2	0.9964	0.50%	0.9932	1.003	3.195	0.32%
5	13-Feb-93	32	0.9886	0.50%	0.9933	0.995	-4.729	-0.48%
6	19-Feb-93	2	1.0204	0.50%	0.9934	1.027	27.010	2.72%
7	22-Mar-93	30	1.0081	0.50%	0.9937	1.014	14.392	1.45%
8	24-Mar-93	32	0.9886	0.50%	0.9937	0.995	-5.128	-0.52%
9	30-Mar-93	30	1.0100	0.50%	0.9938	1.016	16.210	1.63%

LOS ALAMOS NATIONAL LABORATORY

#	Date Measured	Instr. ID	Measured Watts	Uncert. 1 STD	Accepted Watts	Ratio M/A	mW Error	Percent Error
1	8-Jan-93	K4	0.9938	0.20%	0.9930	1.001	0.852	0.09%
2	11-Jan-93	K4	0.9928	0.20%	0.9930	1.000	-0.179	-0.02%
3	14-Jan-93	K4	0.9910	0.20%	0.9930	0.998	-2.070	-0.21%
4	15-Jan-93	K4	0.9941	0.20%	0.9930	1.001	1.090	0.11%
5	19-Jan-93	K4	0.9916	0.20%	0.9931	0.999	-1.451	-0.15%
6	19-Feb-93	K7	0.9956	0.10%	0.9934	1.002	2.210	0.22%
7	5-Feb-93	K8	0.9919	0.10%	0.9932	0.999	-1.347	-0.14%
8	16-Mar-93	K5	0.9958	0.20%	0.9936	1.002	2.183	0.22%
9	8-Mar-93	K8	0.9953	0.10%	0.9936	1.002	1.735	0.17%

EG&G MOUND APPLIED TECHNOLOGIES

#	Date Measured	Instr. ID	Measured Watts	Uncert. 1 STD	Accepted Watts	Ratio M/A	mW Error	Percent Error
1	12-Jan-93	128	0.992523	0.15%	0.992999	1.000	-0.476	-0.05%
2	13-Jan-93	111	0.994917	0.17%	0.993010	1.002	1.908	0.19%
3	13-Jan-93	128	0.995742	0.15%	0.993010	1.003	2.733	0.28%
4	18-Jan-93	128	0.991978	0.15%	0.993061	0.999	-1.083	-0.11%
5	21-Jan-93	111	0.995327	0.17%	0.993092	1.002	2.235	0.23%
6	21-Jan-93	128	0.993797	0.15%	0.993092	1.001	0.705	0.07%
7	26-Jan-93	128	0.993573	0.15%	0.993144	1.000	0.429	0.04%
8	27-Jan-93	111	0.995707	0.17%	0.993154	1.003	2.553	0.26%
9	27-Jan-93	128	0.992998	0.15%	0.993154	1.000	-0.156	-0.02%
10	28-Jan-93	128	0.993938	0.15%	0.993164	1.001	0.774	0.08%
11	3-Feb-93	128	0.994240	0.15%	0.993226	1.001	1.014	0.10%
12	4-Feb-93	111	0.995615	0.17%	0.993236	1.002	2.378	0.24%
13	4-Feb-93	128	0.992625	0.15%	0.993236	0.999	-0.611	-0.06%
14	9-Feb-93	128	0.990700	0.15%	0.993288	0.997	-2.587	-0.26%
15	11-Feb-93	128	0.994728	0.15%	0.993308	1.001	1.420	0.14%
16	16-Feb-93	128	0.994610	0.15%	0.993360	1.001	1.250	0.13%
17	17-Feb-93	111	0.995476	0.17%	0.993370	1.002	2.106	0.21%
18	17-Feb-93	128	0.992272	0.15%	0.993370	0.999	-1.098	-0.11%
19	24-Feb-93	128	0.993505	0.15%	0.993442	1.000	0.063	0.01%
20	25-Feb-93	111	0.996212	0.17%	0.993452	1.003	2.760	0.28%
21	4-Mar-93	111	0.995747	0.17%	0.993524	1.002	2.224	0.22%
22	4-Mar-93	128	0.992407	0.15%	0.993524	0.999	-1.116	-0.11%
23	9-Mar-93	128	0.993829	0.15%	0.993575	1.000	0.255	0.03%
24	10-Mar-93	111	0.996219	0.17%	0.993585	1.003	2.634	0.27%
25	11-Mar-93	128	0.993789	0.15%	0.993595	1.000	0.194	0.02%
26	16-Mar-93	128	0.994287	0.15%	0.993647	1.001	0.641	0.06%
27	23-Mar-93	128	0.994589	0.15%	0.993718	1.001	0.871	0.09%
28	24-Mar-93	128	0.994505	0.15%	0.993728	1.001	0.777	0.08%

WESTINGHOUSE HANFORD COMPANY

#	Date Measured	Instr. ID	Measured Watts	Uncert. 1 STD	Accepted Watts	Ratio M/A	mW Error	Percent Error
1	3-Feb-93	1	0.9951	0.21%	0.9932	1.002	1.874	0.19%
2	3-Feb-93	4	0.9929	0.21%	0.9933	1.000	-0.388	-0.04%
3	9-Feb-93	4	0.9891	0.21%	0.9934	0.996	-4.270	-0.43%
4	17-Feb-93	4	0.9904	0.21%	0.9934	0.997	-2.980	-0.30%
5	18-Feb-93	1	0.9940	0.21%	0.9934	1.001	0.610	0.06%
6	19-Feb-93	3	0.9939	0.21%	0.9934	1.000	0.469	0.05%
7	23-Feb-93	5	0.9908	0.21%	0.9934	0.997	-2.642	-0.27%
8	24-Feb-93	4	0.9931	0.21%	0.9934	1.000	-0.342	-0.03%
9	4-Mar-93	3	0.9928	0.35%	0.9935	0.999	-0.724	-0.07%
10	17-Mar-93	1	0.9942	0.35%	0.9937	1.001	0.543	0.05%
11	17-Mar-93	4	0.9868	0.35%	0.9937	0.993	-6.857	-0.69%
12	18-Mar-93	5	0.9942	0.35%	0.9937	1.001	0.533	0.05%

ROCKY FLATS PLANT - ANALYTICAL LABORATORY

#	Date Measured	Instr. ID	Measured Watts	Uncert. 1 STD	Accepted Watts	Ratio M/A	mW Error	Percent Error
1	6-Jan-93	MO7	0.9943	0.38%	0.992937	1.001	1.363	0.14%
2	7-Jan-93	MO9	0.9949	0.40%	0.992948	1.002	1.952	0.20%
3	7-Jan-93	MO10	0.9935	0.38%	0.992948	1.001	0.552	0.06%
4	13-Jan-93	MO7	0.9946	0.38%	0.993010	1.002	1.590	0.16%
5	14-Jan-93	MO9	0.9982	0.40%	0.993020	1.005	5.180	0.52%
6	14-Jan-93	MO10	0.9957	0.38%	0.993020	1.003	2.680	0.27%
7	19-Jan-93	MO7	0.9958	0.38%	0.993071	1.003	2.729	0.27%
8	19-Jan-93	MO9	0.9951	0.40%	0.993071	1.002	2.029	0.20%
9	20-Jan-93	MO7	0.9933	0.38%	0.993082	1.000	0.218	0.02%
10	21-Jan-93	MO10	0.9948	0.38%	0.993092	1.002	1.708	0.17%
11	22-Jan-93	MO9	0.9947	0.40%	0.993102	1.002	1.598	0.16%
12	26-Jan-93	MO7	0.9968	0.38%	0.993144	1.004	3.656	0.37%
13	27-Jan-93	MO9	0.9975	0.40%	0.993154	1.004	4.346	0.44%
14	27-Jan-93	MO10	0.9965	0.38%	0.993154	1.003	3.346	0.34%
15	1-Feb-93	MO7	0.9933	0.38%	0.993205	1.000	0.095	0.01%
16	2-Feb-93	MO9	0.9955	0.40%	0.993216	1.002	2.284	0.23%
17	4-Feb-93	MO10	0.9936	0.38%	0.993236	1.000	0.364	0.04%
18	8-Feb-93	MO7	0.9944	0.38%	0.993277	1.001	1.123	0.11%
19	9-Feb-93	MO9	0.9945	0.40%	0.993288	1.001	1.212	0.12%
20	10-Feb-93	MO10	0.9953	0.38%	0.993298	1.002	2.002	0.20%
21	11-Feb-93	MO7	0.9946	0.38%	0.993308	1.001	1.292	0.13%
22	11-Feb-93	MO1	1.0010	0.21%	0.993308	1.008	7.692	0.77%
23	11-Feb-93	MO2	0.9979	0.21%	0.993308	1.005	4.592	0.46%
24	12-Feb-93	MO3	0.9968	0.20%	0.993319	1.004	3.481	0.35%
25	16-Feb-93	MO10	0.9959	0.38%	0.993360	1.003	2.540	0.26%
26	16-Feb-93	MO9	0.9958	0.40%	0.993360	1.002	2.440	0.25%
27	17-Feb-93	MO7	0.9928	0.38%	0.993370	0.999	-0.570	-0.06%
28	17-Feb-93	MO4	0.9968	0.22%	0.993370	1.003	3.430	0.35%
29	17-Feb-93	MO3	0.9968	0.20%	0.993370	1.003	3.430	0.35%
30	18-Feb-93	MO2	0.9988	0.21%	0.993380	1.005	5.420	0.55%
31	19-Feb-93	MO1	1.0000	0.21%	0.993390	1.007	6.610	0.67%
32	19-Feb-93	MO8	0.9969	0.40%	0.993390	1.004	3.510	0.35%
33	26-Feb-93	MO8	0.9956	0.40%	0.993462	1.002	2.138	0.22%
34	26-Feb-93	MO10	0.9940	0.38%	0.993462	1.001	0.538	0.05%
35	2-Mar-93	MO10	0.9955	0.38%	0.993503	1.002	1.997	0.20%
36	2-Mar-93	MO4	0.9966	0.22%	0.993503	1.003	3.097	0.31%
37	3-Mar-93	MO9	0.9952	0.40%	0.993513	1.002	1.687	0.17%
38	3-Mar-93	MO1	0.9986	0.21%	0.993513	1.005	5.087	0.51%
39	4-Mar-93	MO3	0.9975	0.20%	0.993524	1.004	3.976	0.40%
40	4-Mar-93	MO7	0.9938	0.38%	0.993524	1.000	0.276	0.03%
41	5-Mar-93	MO8	0.9985	0.40%	0.993534	1.005	4.966	0.50%
42	5-Mar-93	MO2	0.9977	0.21%	0.993534	1.004	4.166	0.42%
43	9-Mar-93	MO7	0.9964	0.38%	0.993575	1.003	2.825	0.28%
44	9-Mar-93	MO8	0.9970	0.40%	0.993575	1.003	3.425	0.34%
45	10-Mar-93	MO9	0.9994	0.40%	0.993585	1.006	5.815	0.59%
46	11-Mar-93	MO10	0.9948	0.38%	0.993595	1.001	1.205	0.12%
47	11-Mar-93	MO1	1.0001	0.21%	0.993595	1.007	6.505	0.65%
48	16-Mar-93	MO7	0.9964	0.38%	0.993647	1.003	2.753	0.28%
49	16-Mar-93	MO8	0.9972	0.40%	0.993647	1.004	3.553	0.36%
50	17-Mar-93	MO10	0.9964	0.38%	0.993657	1.003	2.743	0.28%
51	17-Mar-93	MO1	1.0008	0.21%	0.993657	1.007	7.143	0.72%
52	18-Mar-93	MO9	0.9962	0.40%	0.993667	1.003	2.533	0.25%
53	19-Mar-93	MO3	0.9971	0.20%	0.993677	1.003	3.423	0.34%
54	30-Mar-93	MO9	0.9962	0.40%	0.993790	1.002	2.410	0.24%

WESTINGHOUSE SAVANNAH RIVER SITE
NO DATA REPORTED

RESULTS OF ANALYSIS OF P-EFFECTIVE DATA

First Quarter 1993

REPORTING LABORATORY

	CSL	LLNL	LANL	MOUND	WHO	RFP	SRS
Mean Error (mW/g)	****	-0.0065	0.0022	0.0031	0.0022	-0.0317	****
Std. Dev. (mW/g)	****	0.0023	0.0063	0.0042	0.0041	0.0201	****
Unc. in Mean (mW/g)	****	0.0007	0.0038	0.0011	0.0005	0.0064	****
Mean Error (%)	****	-0.26%	0.09%	0.12%	0.09%	-1.27%	****
Std. Dev. (%)	****	0.09%	0.25%	0.17%	0.16%	0.81%	****
Unc. in Mean (%)	****	0.03%	0.15%	0.04%	0.02%	0.26%	****

DIFFERENCE FROM LAST PERIOD

Diff. in Mean Error (mW/g)	****	-0.0005	0.0028	-0.0026	0.0007	*	****
Diff. in Std. Dev. (mW/g)	****	0.0005	-0.0008	-0.0012	-0.0004	*	****
Diff. in Mean Error (%)	****	-0.02%	0.11%	-0.11%	0.03%	*	****
Diff. in Std. Dev. (%)	****	0.02%	-0.04%	-0.05%	-0.02%	*	****

Number of Data Points	0	12	5	24	25	4	0
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* NO DATA REPORTED FOR THIS MEASUREMENT IN THE PREVIOUS PERIOD

LAWRENCE LIVERMORE - P-EFFECTIVE **2ND QUARTER 1992 - 1ST QUARTER 1993**

All standard deviation and uncertainty limits are at two-sigma.

LOS ALAMOS - P-EFFECTIVE 2ND QUARTER 1992 - 1ST QUARTER 1993

EG&G MOUND - P-EFFECTIVE **2ND QUARTER 1992 - 1ST QUARTER 1993**

All standard deviation and uncertainty limits are at two-sigma.

WESTINGHOUSE HANFORD - P-EFFECTIVE 2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

EG&G ROCKY FLATS - ANALYTICAL LAB.
P-EFFECTIVE - 2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

**P-EFFECTIVE DATA
1ST QUARTER 1993**

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	12-Jan-93	1	2.4898	0.08%	2.4957	0.998	-0.0059	-0.24%
2	29-Jan-93	1	2.4935	0.13%	2.4961	0.999	-0.0026	-0.11%
3	10-Feb-93	1	2.4917	0.09%	2.4965	0.998	-0.0048	-0.19%
4	23-Feb-93	1	2.4896	0.10%	2.4968	0.997	-0.0072	-0.29%
5	3-Mar-93	1	2.4883	0.10%	2.4970	0.997	-0.0087	-0.35%
6	8-Mar-93	1	2.4928	0.10%	2.4972	0.998	-0.0044	-0.17%
7	9-Mar-93	1	2.4901	0.11%	2.4972	0.997	-0.0071	-0.28%
8	10-Mar-93	1	2.4931	0.10%	2.4972	0.998	-0.0041	-0.16%
9	11-Mar-93	1	2.4863	0.11%	2.4972	0.996	-0.0109	-0.44%
10	24-Mar-93	1	2.4892	0.09%	2.4976	0.997	-0.0084	-0.34%
11	25-Mar-93	1	2.4909	0.09%	2.4976	0.997	-0.0067	-0.27%
12	29-Mar-93	1	2.4906	0.09%	2.4977	0.997	-0.0071	-0.28%

LANL

#	Date Measured	Instr. ID	P-eff (mw/g)	Uncert. 1 STD	Accepted P-eff	Ratio M/A	mW/g Error	Percent Error
1	20-Jan-93	F5	2.5002	0.35%	2.4959	1.002	0.0043	0.17%
2	20-Jan-93	F6	2.4884	0.34%	2.4959	0.997	-0.0075	-0.30%
3	28-Jan-93	F6	2.5036	0.33%	2.4961	1.003	0.0074	0.30%
4	19-Feb-93	F6	2.5039	0.33%	2.4967	1.003	0.0072	0.29%
5	8-Mar-93	F5	2.4965	0.34%	2.4972	1.000	-0.0006	-0.02%

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-Jan-93	GENIE2	2.5037	0.19%	2.4941	1.004	0.0095	0.38%
2	14-Jan-93	GENIE2	2.4961	0.21%	2.4943	1.001	0.0018	0.07%
3	14-Jan-93	GENIE2	2.5044	0.24%	2.4943	1.004	0.0101	0.40%
4	14-Jan-93	GENIE2	2.4944	0.19%	2.4943	1.000	0.0001	0.00%
5	15-Jan-93	GENIE2	2.4978	0.18%	2.4944	1.001	0.0034	0.14%
6	15-Jan-93	GENIE2	2.4985	0.21%	2.4944	1.002	0.0041	0.16%
7	15-Jan-93	GENIE2	2.5023	0.25%	2.4944	1.003	0.0079	0.32%
8	27-Jan-93	GENIE2	2.4991	0.19%	2.4947	1.002	0.0044	0.18%
9	27-Jan-93	GENIE2	2.4971	0.20%	2.4947	1.001	0.0024	0.10%
10	28-Jan-93	GENIE2	2.4996	0.21%	2.4947	1.002	0.0049	0.20%
11	10-Feb-93	GENIE2	2.5000	0.20%	2.4951	1.002	0.0050	0.20%
12	23-Feb-93	GENIE2	2.4932	0.24%	2.4954	0.999	-0.0022	-0.09%
13	23-Feb-93	GENIE2	2.5021	0.20%	2.4954	1.003	0.0067	0.27%
14	23-Feb-93	GENIE2	2.5019	0.21%	2.4954	1.003	0.0065	0.26%
15	24-Feb-93	GENIE2	2.4990	0.22%	2.4954	1.001	0.0036	0.14%
16	2-Mar-93	GENIE2	2.4954	0.22%	2.4956	1.000	-0.0002	-0.01%
17	16-Mar-93	GENIE2	2.4994	0.20%	2.4960	1.001	0.0035	0.14%
18	16-Mar-93	GENIE2	2.4936	0.22%	2.4960	0.999	-0.0023	-0.09%
19	17-Mar-93	GENIE2	2.4943	0.22%	2.4960	0.999	-0.0017	-0.07%
20	17-Mar-93	GENIE2	2.4875	0.21%	2.4960	0.997	-0.0085	-0.34%
21	17-Mar-93	GENIE2	2.4963	0.21%	2.4960	1.000	0.0003	0.01%
22	17-Mar-93	GENIE2	2.5034	0.22%	2.4960	1.003	0.0074	0.30%
23	17-Mar-93	GENIE2	2.4999	0.19%	2.4960	1.002	0.0039	0.16%
24	23-Mar-93	GENIE2	2.4992	0.21%	2.4961	1.001	0.0031	0.12%

**P-EFFECTIVE DATA
1ST QUARTER 1993**

HANFORD

#	Date Measured	Instr. ID	P-eff (mw/g)	Uncert. 1 STD	Accepted P-eff	Ratio M/A	mW/g Error	Percent Error
1	4-Jan-93	2424	2.5002	0.10%	2.4947	1.002	0.0055	0.22%
2	4-Jan-93	1985	2.4905	0.11%	2.4947	0.998	-0.0042	-0.17%
3	5-Jan-93	2026	2.5028	0.10%	2.4947	1.003	0.0081	0.32%
4	29-Jan-93	2424	2.4979	0.10%	2.4954	1.001	0.0025	0.10%
5	2-Feb-93	1985	2.4970	0.11%	2.4955	1.001	0.0015	0.06%
6	2-Feb-93	2026	2.4960	0.10%	2.4955	1.000	0.0005	0.02%
7	2-Feb-93	2424	2.4953	0.10%	2.4955	1.000	-0.0002	-0.01%
8	8-Feb-93	2424	2.4924	0.11%	2.4956	0.999	-0.0032	-0.13%
9	8-Feb-93	2026	2.5001	0.10%	2.4956	1.002	0.0045	0.18%
10	9-Feb-93	1985	2.4955	0.11%	2.4957	1.000	-0.0002	-0.01%
11	16-Feb-93	2424	2.4977	0.11%	2.4958	1.001	0.0019	0.07%
12	16-Feb-93	1985	2.4934	0.11%	2.4958	0.999	-0.0024	-0.10%
13	17-Feb-93	2026	2.5020	0.12%	2.4959	1.002	0.0061	0.25%
14	22-Feb-93	1985	2.4901	0.10%	2.4960	0.998	-0.0059	-0.24%
15	22-Feb-93	2026	2.4980	0.10%	2.4960	1.001	0.0020	0.08%
16	23-Feb-93	2424	2.5007	0.10%	2.4960	1.002	0.0047	0.19%
17	25-Feb-93	2026	2.4969	0.10%	2.4961	1.000	0.0008	0.03%
18	1-Mar-93	2424	2.4990	0.09%	2.4962	1.001	0.0028	0.11%
19	2-Mar-93	2026	2.5035	0.10%	2.4962	1.003	0.0073	0.29%
20	5-Mar-93	2026	2.4958	0.10%	2.4963	1.000	-0.0005	-0.02%
21	5-Mar-93	2424	2.5028	0.10%	2.4963	1.003	0.0065	0.26%
22	8-Mar-93	2026	2.5068	0.10%	2.4964	1.004	0.0104	0.42%
23	15-Mar-93	2026	2.5033	0.11%	2.4966	1.003	0.0067	0.27%
24	15-Mar-93	2424	2.4949	0.11%	2.4966	0.999	-0.0017	-0.07%
25	30-Mar-93	2424	2.4992	0.10%	2.4970	1.001	0.0022	0.09%

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	19-Mar-93	F5	2.4711	0.62%	2.4960	0.990	-0.0249	-1.00%
2	19-Mar-93	F6	2.4426	0.38%	2.4960	0.979	-0.0534	-2.14%
3	26-Mar-93	F6	2.4550	0.49%	2.4962	0.983	-0.0412	-1.65%
4	29-Mar-93	F5	2.4892	0.55%	2.4963	0.997	-0.0071	-0.28%

SAVANNAH RIVER

NO DATA REPORTED

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

First Quarter 1993

	REPORTING LABORATORY						
	CSL	LLNL	LANL	MOUND	WHO	RFP	
Mean Error (ppm)	****	-1	2	2	3	17	****
Std. Dev. (ppm)	****	3.44	3.67	5.97	4.55	27.59	****
Unc. in Mean (ppm)	****	0.94	3.07	1.41	0.73	9.31	****
Mean Error (%)	****	-0.90%	1.54%	2.25%	3.19%	17.89%	****
Std. Dev. (%)	****	3.52%	3.75%	6.10%	4.65%	28.23%	****
Unc. in Mean (%)	****	0.97%	3.10%	1.42%	0.72%	8.25%	****

DIFFERENCE FROM LAST PERIOD

Diff. in Mean Error (ppm)	****	0	-3	-1	1	*	****
Diff. in Std. Dev. (ppm)	****	1.88	-6.03	-1.40	-1.00	*	****
Diff. in Mean Error (%)	****	0.12%	-3.32%	-0.87%	1.24%	*	****
Diff. in Std. Dev. (%)	****	1.92%	-6.15%	-1.42%	-1.02%	*	****
Number of Data Points	0	12	5	24	25	4	0

* NO DATA REPORTED FOR THIS MEASUREMENT IN THE PREVIOUS PERIOD

LAWRENCE LIVERMORE - 238-PU/239-PU 2ND QUARTER 1992 - 1ST QUARTER 1993

Date

All standard deviation and uncertainty limits are at two-sigma.

LOS ALAMOS - 238-PU/239-PU **2ND QUARTER 1992 - 1ST QUARTER 1993**

EG&G MOUND - 238-PU/239-PU **2ND QUARTER 1992 - 1ST QUARTER 1993**

All standard deviation and uncertainty limits are at two-sigma.

WESTINGHOUSE HANFORD - 238-PU/239-PU 2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

EG&G ROCKY FLATS - ANALYTICAL LAB.
238-PU/239-PU - 2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

**238-Pu/239-Pu DATA
1ST QUARTER 1993**

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	12-Jan-93	1	99	2.53%	98	1.015	2	1.54%
2	29-Jan-93	1	102	4.20%	98	1.038	4	3.81%
3	10-Feb-93	1	99	2.95%	98	1.016	2	1.60%
4	23-Feb-93	1	94	3.41%	98	0.962	-4	-3.82%
5	3-Mar-93	1	94	3.42%	98	0.962	-4	-3.83%
6	8-Mar-93	1	99	3.22%	98	1.017	2	1.68%
7	9-Mar-93	1	96	3.76%	98	0.984	-2	-1.62%
8	10-Mar-93	1	99	3.48%	98	1.017	2	1.69%
9	11-Mar-93	1	91	3.94%	98	0.929	-7	-7.10%
10	24-Mar-93	1	92	3.16%	98	0.941	-6	-5.95%
11	25-Mar-93	1	97	2.99%	98	0.995	0	-0.51%
12	29-Mar-93	1	99	3.05%	98	1.017	2	1.67%

LANL

#	Date Measured	Instr. ID	238/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	20-Jan-93	F5	100	7.20%	98	1.025	2	2.51%
2	20-Jan-93	F6	95	7.12%	98	0.971	-3	-2.93%
3	28-Jan-93	F6	105	6.31%	98	1.072	7	7.23%
4	19-Feb-93	F6	99	6.75%	98	1.010	1	0.96%
5	8-Mar-93	F5	98	7.20%	98	0.999	0	-0.07%

EG&G MOUND

#	Date Measured	Instr. ID	238/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	7-Jan-93	GENIE2	107	5.49%	98	1.093	9	9.27%
2	14-Jan-93	GENIE2	100	6.67%	98	1.021	2	2.14%
3	14-Jan-93	GENIE2	106	7.92%	98	1.083	8	8.26%
4	14-Jan-93	GENIE2	99	6.39%	98	1.011	1	1.11%
5	15-Jan-93	GENIE2	99	5.91%	98	1.011	1	1.12%
6	15-Jan-93	GENIE2	100	7.44%	98	1.021	2	2.14%
7	15-Jan-93	GENIE2	109	8.82%	98	1.113	11	11.33%
8	27-Jan-93	GENIE2	99	5.60%	98	1.011	1	1.14%
9	27-Jan-93	GENIE2	103	5.48%	98	1.052	5	5.23%
10	28-Jan-93	GENIE2	101	6.74%	98	1.032	3	3.19%
11	10-Feb-93	GENIE2	102	5.88%	98	1.042	4	4.24%
12	23-Feb-93	GENIE2	90	9.97%	98	0.920	-8	-8.00%
13	23-Feb-93	GENIE2	106	5.61%	98	1.084	8	8.36%
14	23-Feb-93	GENIE2	102	6.75%	98	1.043	4	4.27%
15	24-Feb-93	GENIE2	96	7.35%	98	0.981	-2	-1.86%
16	2-Mar-93	GENIE2	95	7.07%	98	0.971	-3	-2.87%
17	16-Mar-93	GENIE2	111	5.86%	98	1.135	13	13.52%
18	16-Mar-93	GENIE2	94	8.06%	98	0.961	-4	-3.87%
19	17-Mar-93	GENIE2	95	7.67%	98	0.972	-3	-2.84%
20	17-Mar-93	GENIE2	85	7.96%	98	0.869	-13	-13.07%
21	17-Mar-93	GENIE2	100	6.28%	98	1.023	2	2.27%
22	17-Mar-93	GENIE2	105	7.25%	98	1.074	7	7.39%
23	17-Mar-93	GENIE2	102	6.01%	98	1.043	4	4.32%
24	23-Mar-93	GENIE2	95	6.84%	98	0.972	-3	-2.83%

238-Pu/239-Pu DATA
1ST QUARTER 1993

HANFORD

#	Date Measured	Instr. ID	238/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	4-Jan-93	2424	104	3.36%	98	1.060	6	5.99%
2	4-Jan-93	1985	95	4.05%	98	0.972	-3	-2.81%
3	5-Jan-93	2026	105	3.35%	98	1.072	7	7.17%
4	29-Jan-93	2424	101	3.42%	98	1.027	3	2.74%
5	2-Feb-93	1985	95	4.02%	98	0.973	-3	-2.67%
6	2-Feb-93	2026	102	3.61%	98	1.039	4	3.85%
7	2-Feb-93	2424	97	3.42%	98	0.995	-1	-0.52%
8	8-Feb-93	2424	94	3.97%	98	0.962	-4	-3.82%
9	8-Feb-93	2026	104	3.41%	98	1.061	6	6.08%
10	9-Feb-93	1985	99	3.82%	98	1.017	2	1.67%
11	16-Feb-93	2424	99	3.77%	98	1.017	2	1.69%
12	16-Feb-93	1985	99	3.82%	98	1.016	2	1.61%
13	17-Feb-93	2026	110	3.95%	98	1.127	12	12.67%
14	22-Feb-93	1985	89	4.02%	98	0.908	-9	-9.25%
15	22-Feb-93	2026	101	3.48%	98	1.028	3	2.82%
16	23-Feb-93	2424	103	3.44%	98	1.050	5	5.00%
17	25-Feb-93	2026	103	3.56%	98	1.050	5	4.96%
18	1-Mar-93	2424	103	3.20%	98	1.050	5	5.00%
19	2-Mar-93	2026	105	3.33%	98	1.073	7	7.28%
20	5-Mar-93	2026	102	3.34%	98	1.039	4	3.89%
21	5-Mar-93	2424	103	3.37%	98	1.051	5	5.05%
22	8-Mar-93	2026	106	3.21%	98	1.084	8	8.41%
23	15-Mar-93	2026	107	3.45%	98	1.095	9	9.46%
24	15-Mar-93	2424	99	3.86%	98	1.017	2	1.69%
25	30-Mar-93	2424	100	3.59%	98	1.018	2	1.81%

RFP - ANAL. LAB.

#	Date Measured	Instr. ID	238/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	19-Mar-93	F5	106	21.89%	98	1.084	8	8.41%
2	19-Mar-93	F6	95	11.66%	98	0.972	-3	-2.84%
3	26-Mar-93	F6	104	17.83%	98	1.064	6	6.38%
4	29-Mar-93	F5	156	12.52%	98	1.596	58	59.59%

SAVANNAH RIVER

NO DATA REPORTED

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

First Quarter 1993

REPORTING LABORATORY

	CSL	LLNL	LANL	MOUND	WHO	RFP	SRS
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Mean Error (ppm)	****	-249	231	190	672	853	****
Std. Dev. (ppm)	****	251.04	1048.91	597.43	463.42	1862.69	****
Unc. in Mean (ppm)	****	82.40	506.91	167.23	63.33	865.70	****
Mean Error (%)	****	-0.40%	0.37%	0.31%	1.08%	1.37%	****
Std. Dev. (%)	****	0.40%	1.69%	0.96%	0.75%	3.00%	****
Unc. in Mean (%)	****	0.13%	0.81%	0.27%	0.10%	1.37%	****

DIFFERENCE FROM LAST PERIOD

Diff. in Mean Error (ppm)	****	-11	201	-479	-21	*	****
Diff. in Std. Dev. (ppm)	****	59.47	343.56	-732.71	52.98	*	****
Diff. in Mean Error (%)	****	-0.02%	0.32%	-0.77%	-0.04%	*	****
Diff. in Std. Dev. (%)	****	0.09%	0.56%	-1.18%	0.09%	*	****
Number of Data Points	0	12	5	24	25	4	0

* NO DATA REPORTED FOR THIS MEASUREMENT IN THE PREVIOUS PERIOD

LAWRENCE LIVERMORE - 240-PU/239-PU 2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

LOS ALAMOS - 240-PU/239-PU 2ND QUARTER 1992 - 1ST QUARTER 1993

Date

All standard deviation and uncertainty limits are at two-sigma.

EG&G MOUND - 240-PU/239-PU 2ND QUARTER 1992 - 1ST QUARTER 1993

Date

All standard deviation and uncertainty limits are at two-sigma.

WESTINGHOUSE HANFORD - 240-PU/239-PU 2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

EG&G ROCKY FLATS - ANALYTICAL LAB.
240-PU/239-PU - 2ND QUARTER 1992 - 1ST QUARTER 1993

Date

All standard deviation and uncertainty limits are at two-sigma.

240-Pu/239-Pu DATA
1ST QUARTER 1993

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	12-Jan-93	1	61816	0.37%	62149	0.995	-333	-0.54%
2	29-Jan-93	1	62383	0.61%	62149	1.004	234	0.38%
3	10-Feb-93	1	61882	0.44%	62148	0.996	-266	-0.43%
4	23-Feb-93	1	62044	0.47%	62148	0.998	-105	-0.17%
5	3-Mar-93	1	61673	0.48%	62148	0.992	-475	-0.76%
6	8-Mar-93	1	62117	0.43%	62148	0.999	-31	-0.05%
7	9-Mar-93	1	61869	0.49%	62148	0.996	-279	-0.45%
8	10-Mar-93	1	62145	0.47%	62148	1.000	-3	-0.01%
9	11-Mar-93	1	61678	0.49%	62148	0.992	-470	-0.76%
10	24-Mar-93	1	62003	0.40%	62148	0.998	-145	-0.23%
11	25-Mar-93	1	61703	0.44%	62148	0.993	-445	-0.72%
12	29-Mar-93	1	61483	0.42%	62148	0.989	-665	-1.07%

LANL

#	Date Measured	Instr. ID	240/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	20-Jan-93	F5	62625	1.88%	62149	1.008	476	0.77%
2	20-Jan-93	F6	60541	1.87%	62149	0.974	-1607	-2.59%
3	28-Jan-93	F6	62701	1.75%	62149	1.009	552	0.89%
4	19-Feb-93	F6	62865	1.76%	62148	1.012	717	1.15%
5	8-Mar-93	F5	63168	1.82%	62148	1.016	1020	1.64%

EG&G MOUND

#	Date Measured	Instr. ID	240/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	7-Jan-93	GENIE2	62893	1.27%	62149	1.012	744	1.20%
2	14-Jan-93	GENIE2	61912	1.32%	62149	0.996	-236	-0.38%
3	14-Jan-93	GENIE2	63378	1.37%	62149	1.020	1229	1.98%
4	14-Jan-93	GENIE2	61575	1.17%	62149	0.991	-574	-0.92%
5	15-Jan-93	GENIE2	62732	1.16%	62149	1.009	584	0.94%
6	15-Jan-93	GENIE2	62722	1.18%	62149	1.009	574	0.92%
7	15-Jan-93	GENIE2	62368	1.27%	62149	1.004	219	0.35%
8	27-Jan-93	GENIE2	62736	1.27%	62149	1.009	588	0.95%
9	27-Jan-93	GENIE2	61690	1.37%	62149	0.993	-458	-0.74%
10	28-Jan-93	GENIE2	62576	1.31%	62149	1.007	427	0.69%
11	10-Feb-93	GENIE2	62616	1.35%	62148	1.008	468	0.75%
12	23-Feb-93	GENIE2	62443	1.29%	62148	1.005	295	0.47%
13	23-Feb-93	GENIE2	62479	1.34%	62148	1.005	331	0.53%
14	23-Feb-93	GENIE2	62972	1.32%	62148	1.013	823	1.33%
15	24-Feb-93	GENIE2	62897	1.37%	62148	1.012	749	1.20%
16	2-Mar-93	GENIE2	62224	1.41%	62148	1.001	75	0.12%
17	16-Mar-93	GENIE2	61004	1.33%	62148	0.982	-1145	-1.84%
18	16-Mar-93	GENIE2	61967	1.35%	62148	0.997	-181	-0.29%
19	17-Mar-93	GENIE2	61961	1.42%	62148	0.997	-187	-0.30%
20	17-Mar-93	GENIE2	61640	1.31%	62148	0.992	-508	-0.82%
21	17-Mar-93	GENIE2	61395	1.41%	62148	0.988	-753	-1.21%
22	17-Mar-93	GENIE2	62805	1.31%	62148	1.011	656	1.06%
23	17-Mar-93	GENIE2	62058	1.27%	62148	0.999	-90	-0.14%
24	23-Mar-93	GENIE2	63083	1.33%	62148	1.015	935	1.50%

**240-Pu/239-Pu DATA
1ST QUARTER 1993**

HANFORD

#	Date Measured	Instr. ID	240/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	4-Jan-93	2424	62960	0.49%	62149	1.013	811	1.31%
2	4-Jan-93	1985	62312	0.53%	62149	1.003	163	0.26%
3	5-Jan-93	2026	63696	0.48%	62149	1.025	1547	2.49%
4	29-Jan-93	2424	62691	0.49%	62149	1.009	543	0.87%
5	2-Feb-93	1985	63135	0.52%	62149	1.016	987	1.59%
6	2-Feb-93	2026	62768	0.51%	62149	1.010	619	1.00%
7	2-Feb-93	2424	62734	0.47%	62149	1.009	586	0.94%
8	8-Feb-93	2424	62380	0.53%	62149	1.004	232	0.37%
9	8-Feb-93	2026	63050	0.49%	62149	1.015	901	1.45%
10	9-Feb-93	1985	62634	0.52%	62149	1.008	486	0.78%
11	16-Feb-93	2424	62680	0.53%	62148	1.009	532	0.86%
12	16-Feb-93	1985	61877	0.52%	62148	0.996	-271	-0.44%
13	17-Feb-93	2026	63035	0.60%	62148	1.014	887	1.43%
14	22-Feb-93	1985	62547	0.49%	62148	1.006	399	0.64%
15	22-Feb-93	2026	62874	0.48%	62148	1.012	726	1.17%
16	23-Feb-93	2424	62849	0.50%	62148	1.011	700	1.13%
17	25-Feb-93	2026	62395	0.51%	62148	1.004	246	0.40%
18	1-Mar-93	2424	62679	0.47%	62148	1.009	531	0.85%
19	2-Mar-93	2026	63557	0.48%	62148	1.023	1409	2.27%
20	5-Mar-93	2026	62449	0.47%	62148	1.005	301	0.48%
21	5-Mar-93	2424	63109	0.49%	62148	1.015	961	1.55%
22	8-Mar-93	2026	63828	0.47%	62148	1.027	1680	2.70%
23	15-Mar-93	2026	63196	0.51%	62148	1.017	1048	1.69%
24	15-Mar-93	2424	62098	0.54%	62148	0.999	-50	-0.08%
25	30-Mar-93	2424	62983	0.51%	62148	1.013	835	1.34%

RFP - ANAL. LAB.

#	Date Measured	Instr. ID	240/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	19-Mar-93	F5	65136	2.95%	62148	1.048	2988	4.81%
2	19-Mar-93	F6	60755	2.55%	62148	0.978	-1393	-2.24%
3	26-Mar-93	F6	62423	2.28%	62148	1.004	275	0.44%
4	29-Mar-93	F5	63688	3.09%	62148	1.025	1540	2.48%

**SAVANNAH RIVER
NO DATA REPORTED**

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

First Quarter 1993

	REPORTING LABORATORY						
	CSL	LLNL	LANL	MOUND	WHO	RFP	
Mean Error (ppm)	****	-17	6	-26	-5	8	****
Std. Dev. (ppm)	****	7.10	3.32	12.29	9.63	12.74	****
Unc. in Mean (ppm)	****	2.02	1.04	3.18	1.46	9.84	****
Mean Error (%)	****	-0.82%	0.30%	-1.28%	-0.25%	0.39%	****
Std. Dev. (%)	****	0.35%	0.16%	0.61%	0.48%	0.63%	****
Unc. in Mean (%)	****	0.10%	0.05%	0.16%	0.07%	0.49%	****
DIFFERENCE FROM LAST PERIOD							
Diff. in Mean Error (ppm)	****	-4	1	-10	1	*	****
Diff. in Std. Dev. (ppm)	****	4.44	-3.81	1.18	0.51	*	****
Diff. in Mean Error (%)	****	-0.20%	0.05%	-0.48%	0.06%	*	****
Diff. in Std. Dev. (%)	****	0.22%	-0.19%	0.07%	0.03%	*	****
Number of Data Points	0	12	5	24	25	4	0

* NO DATA REPORTED FOR THIS MEASUREMENT IN THE PREVIOUS PERIOD

LAWRENCE LIVERMORE - 241-PU/239-PU 2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

LOS ALAMOS - 241-PU/239-PU **2ND QUARTER 1992 - 1ST QUARTER 1993**

All standard deviation and uncertainty limits are at two-sigma.

EG&G MOUND - 241-PU/239-PU 2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

WESTINGHOUSE HANFORD - 241-PU/239-PU **2ND QUARTER 1992 - 1ST QUARTER 1993**

Date

All standard deviation and uncertainty limits are at two-sigma.

EG&G ROCKY FLATS - ANALYTICAL LAB. 241-PU/239-PU - 2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

**241-Pu/239-Pu DATA
1ST QUARTER 1993**

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	12-Jan-93	1	2021	0.28%	2034	0.993	-13	-0.66%
2	29-Jan-93	1	2000	0.46%	2029	0.986	-29	-1.42%
3	10-Feb-93	1	2008	0.32%	2026	0.991	-18	-0.90%
4	23-Feb-93	1	2006	0.35%	2023	0.992	-16	-0.82%
5	3-Mar-93	1	2003	0.35%	2021	0.992	-17	-0.85%
6	8-Mar-93	1	2003	0.33%	2019	0.992	-16	-0.79%
7	9-Mar-93	1	1996	0.37%	2019	0.989	-23	-1.12%
8	10-Mar-93	1	2001	0.36%	2019	0.991	-18	-0.87%
9	11-Mar-93	1	1993	0.38%	2018	0.987	-26	-1.27%
10	24-Mar-93	1	2007	0.31%	2015	0.996	-8	-0.39%
11	25-Mar-93	1	2004	0.33%	2015	0.995	-10	-0.51%
12	29-Mar-93	1	2009	0.32%	2014	0.998	-4	-0.21%

LANL

#	Date Measured	Instr. ID	241/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	20-Jan-93	F5	2038	0.12%	2032	1.003	6	0.31%
2	20-Jan-93	F6	2034	0.12%	2032	1.001	2	0.11%
3	28-Jan-93	F6	2035	0.11%	2030	1.003	5	0.26%
4	19-Feb-93	F6	2029	0.11%	2024	1.003	5	0.26%
5	8-Mar-93	F5	2031	0.12%	2019	1.006	11	0.56%

EG&G MOUND

#	Date Measured	Instr. ID	241/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	7-Jan-93	GENIE2	2012	0.74%	2035	0.989	-23	-1.13%
2	14-Jan-93	GENIE2	2025	0.75%	2033	0.996	-9	-0.42%
3	14-Jan-93	GENIE2	2030	0.72%	2033	0.998	-4	-0.19%
4	14-Jan-93	GENIE2	2019	0.68%	2033	0.993	-14	-0.70%
5	15-Jan-93	GENIE2	1987	0.75%	2033	0.977	-47	-2.29%
6	15-Jan-93	GENIE2	1993	0.69%	2033	0.980	-40	-1.95%
7	15-Jan-93	GENIE2	1989	0.72%	2033	0.978	-44	-2.16%
8	27-Jan-93	GENIE2	1993	0.75%	2030	0.982	-36	-1.80%
9	27-Jan-93	GENIE2	2008	0.77%	2030	0.989	-22	-1.08%
10	28-Jan-93	GENIE2	2014	0.77%	2030	0.992	-16	-0.77%
11	10-Feb-93	GENIE2	1986	0.79%	2026	0.980	-40	-1.99%
12	23-Feb-93	GENIE2	1997	0.82%	2023	0.987	-26	-1.28%
13	23-Feb-93	GENIE2	2006	0.82%	2023	0.992	-17	-0.85%
14	23-Feb-93	GENIE2	2001	0.78%	2023	0.989	-22	-1.08%
15	24-Feb-93	GENIE2	2004	0.79%	2022	0.991	-19	-0.93%
16	2-Mar-93	GENIE2	1984	0.83%	2021	0.982	-37	-1.82%
17	16-Mar-93	GENIE2	1972	0.90%	2017	0.978	-45	-2.23%
18	16-Mar-93	GENIE2	1987	0.87%	2017	0.985	-30	-1.47%
19	17-Mar-93	GENIE2	1995	0.78%	2017	0.989	-21	-1.06%
20	17-Mar-93	GENIE2	1997	0.79%	2017	0.990	-20	-1.00%
21	17-Mar-93	GENIE2	1976	0.85%	2017	0.980	-41	-2.04%
22	17-Mar-93	GENIE2	2000	0.78%	2017	0.992	-17	-0.83%
23	17-Mar-93	GENIE2	1999	0.86%	2017	0.991	-18	-0.90%
24	23-Mar-93	GENIE2	1999	0.69%	2015	0.992	-17	-0.82%

**241-Pu/239-Pu DATA
1ST QUARTER 1993**

HANFORD

#	Date Measured	Instr. ID	241/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	4-Jan-93	2424	2028	0.36%	2036	0.996	-8	-0.40%
2	4-Jan-93	1985	2020	0.38%	2036	0.992	-16	-0.77%
3	5-Jan-93	2026	2051	0.35%	2036	1.007	15	0.72%
4	29-Jan-93	2424	2027	0.35%	2029	0.999	-2	-0.10%
5	2-Feb-93	1985	2021	0.37%	2028	0.996	-7	-0.37%
6	2-Feb-93	2026	2005	0.37%	2028	0.989	-23	-1.13%
7	2-Feb-93	2424	2031	0.34%	2028	1.001	2	0.12%
8	8-Feb-93	2424	2018	0.38%	2027	0.996	-8	-0.41%
9	8-Feb-93	2026	2017	0.35%	2027	0.995	-9	-0.45%
10	9-Feb-93	1985	2018	0.36%	2026	0.996	-9	-0.43%
11	16-Feb-93	2424	2026	0.39%	2025	1.001	2	0.09%
12	16-Feb-93	1985	2005	0.36%	2025	0.990	-20	-0.98%
13	17-Feb-93	2026	2029	0.43%	2024	1.002	5	0.24%
14	22-Feb-93	1985	2000	0.34%	2023	0.988	-23	-1.15%
15	22-Feb-93	2026	2031	0.34%	2023	1.004	8	0.40%
16	23-Feb-93	2424	2011	0.36%	2023	0.994	-12	-0.59%
17	25-Feb-93	2026	2020	0.36%	2022	0.999	-2	-0.08%
18	1-Mar-93	2424	2011	0.34%	2021	0.995	-10	-0.47%
19	2-Mar-93	2026	2016	0.35%	2021	0.998	-4	-0.22%
20	5-Mar-93	2026	2014	0.34%	2020	0.997	-6	-0.28%
21	5-Mar-93	2424	2026	0.36%	2020	1.003	6	0.30%
22	8-Mar-93	2026	2019	0.34%	2019	1.000	0	-0.01%
23	15-Mar-93	2026	2023	0.37%	2017	1.003	6	0.29%
24	15-Mar-93	2424	2018	0.40%	2017	1.000	0	0.02%
25	30-Mar-93	2424	2003	0.37%	2013	0.995	-11	-0.54%

RFP - ANAL. LAB.

#	Date Measured	Instr. ID	241/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	19-Mar-93	F5	2025	1.27%	2016	1.004	9	0.43%
2	19-Mar-93	F6	2032	0.66%	2016	1.008	16	0.78%
3	26-Mar-93	F6	2004	1.11%	2014	0.995	-10	-0.52%
4	29-Mar-93	F5	2031	0.72%	2014	1.009	17	0.87%

**SAVANNAH RIVER
NO DATA REPORTED**

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

First Quarter 1993

	REPORTING LABORATORY						
	CSL	LLNL	LANL	MOUND	WHO	RFP	
Mean Error (ppm)	****	-32	16	9	-17	12	****
Std. Dev. (ppm)	****	3.24	29.01	5.27	9.24	15.45	****
Unc. in Mean (ppm)	****	2.06	6.43	2.48	1.41	11.14	****
Mean Error (%)	****	-1.65%	0.82%	0.45%	-0.87%	0.60%	****
Std. Dev. (%)	****	0.17%	1.49%	0.27%	0.48%	0.79%	****
Unc. in Mean (%)	****	0.11%	0.33%	0.13%	0.07%	0.57%	****
DIFFERENCE FROM LAST PERIOD							
Diff. in Mean Error (ppm)	****	-3	33	0	2	*	****
Diff. in Std. Dev. (ppm)	****	-1.78	12.65	-9.24	1.76	*	****
Diff. in Mean Error (%)	****	-0.15%	1.72%	-0.03%	0.12%	*	****
Diff. in Std. Dev. (%)	****	-0.10%	0.64%	-0.49%	0.09%	*	****
Number of Data Points	0	12	5	24	25	4	0

* NO DATA REPORTED FOR THIS MEASUREMENT IN THE PREVIOUS PERIOD

LAWRENCE LIVERMORE - 241-AM/239-PU 2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

LOS ALAMOS - 241-AM/239-PU **2ND QUARTER 1992 - 1ST QUARTER 1993**

Date

All standard deviation and uncertainty limits are at two-sigma.

EG&G MOUND - 241-AM/239-PU **2ND QUARTER 1992 - 1ST QUARTER 1993**

Date

All standard deviation and uncertainty limits are at two-sigma.

WESTINGHOUSE HANFORD - 241-AM/239-PU

2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

EG&G ROCKY FLATS - ANALYTICAL LAB.
241-AM/239-PU - 2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

241-Am/239-Pu DATA
1ST QUARTER 1993

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	12-Jan-93	1	1900	0.30%	1936	0.982	-35	-1.83%
2	29-Jan-93	1	1902	0.48%	1940	0.981	-38	-1.94%
3	10-Feb-93	1	1916	0.34%	1943	0.986	-27	-1.39%
4	23-Feb-93	1	1916	0.37%	1946	0.985	-30	-1.54%
5	3-Mar-93	1	1919	0.37%	1949	0.985	-30	-1.52%
6	8-Mar-93	1	1914	0.37%	1950	0.982	-35	-1.82%
7	9-Mar-93	1	1918	0.41%	1950	0.984	-32	-1.64%
8	10-Mar-93	1	1920	0.39%	1950	0.984	-31	-1.57%
9	11-Mar-93	1	1916	0.41%	1951	0.982	-35	-1.79%
10	24-Mar-93	1	1924	0.33%	1954	0.985	-30	-1.55%
11	25-Mar-93	1	1925	0.33%	1954	0.985	-29	-1.48%
12	29-Mar-93	1	1922	0.34%	1955	0.983	-34	-1.71%

LANL

#	Date Measured	Instr. ID	Am/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	20-Jan-93	F5	1959	0.78%	1938	1.011	21	1.09%
2	20-Jan-93	F6	1961	0.71%	1938	1.012	23	1.20%
3	28-Jan-93	F6	1965	0.70%	1940	1.013	25	1.30%
4	19-Feb-93	F6	1989	0.69%	1945	1.022	44	2.24%
5	8-Mar-93	F5	1916	0.78%	1950	0.983	-33	-1.72%

EG&G MOUND

#	Date Measured	Instr. ID	Am/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	7-Jan-93	GENIE2	1947	0.58%	1934	1.006	13	0.65%
2	14-Jan-93	GENIE2	1953	0.63%	1936	1.009	17	0.87%
3	14-Jan-93	GENIE2	1941	0.64%	1936	1.002	5	0.23%
4	14-Jan-93	GENIE2	1952	0.53%	1936	1.008	16	0.82%
5	15-Jan-93	GENIE2	1938	0.57%	1936	1.001	2	0.09%
6	15-Jan-93	GENIE2	1938	0.59%	1936	1.001	2	0.08%
7	15-Jan-93	GENIE2	1947	0.59%	1936	1.006	11	0.57%
8	27-Jan-93	GENIE2	1950	0.59%	1939	1.006	11	0.55%
9	27-Jan-93	GENIE2	1951	0.61%	1939	1.006	12	0.61%
10	28-Jan-93	GENIE2	1951	0.61%	1940	1.006	12	0.60%
11	10-Feb-93	GENIE2	1947	0.67%	1943	1.002	4	0.22%
12	23-Feb-93	GENIE2	1950	0.63%	1946	1.002	3	0.17%
13	23-Feb-93	GENIE2	1954	0.62%	1946	1.004	8	0.39%
14	23-Feb-93	GENIE2	1955	0.63%	1946	1.004	8	0.41%
15	24-Feb-93	GENIE2	1957	0.65%	1947	1.005	10	0.51%
16	2-Mar-93	GENIE2	1954	0.65%	1948	1.003	5	0.27%
17	16-Mar-93	GENIE2	1966	0.62%	1952	1.007	14	0.70%
18	16-Mar-93	GENIE2	1955	0.64%	1952	1.001	3	0.13%
19	17-Mar-93	GENIE2	1957	0.66%	1952	1.002	5	0.25%
20	17-Mar-93	GENIE2	1954	0.63%	1952	1.001	2	0.10%
21	17-Mar-93	GENIE2	1971	0.70%	1952	1.010	19	0.95%
22	17-Mar-93	GENIE2	1960	0.62%	1952	1.004	8	0.42%
23	17-Mar-93	GENIE2	1969	0.60%	1952	1.009	17	0.87%
24	23-Mar-93	GENIE2	1959	0.65%	1954	1.003	5	0.28%

241-Am/239-Pu DATA
1ST QUARTER 1993

HANFORD

#	Date Measured	Instr. ID	Am/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	4-Jan-93	2424	1928	0.36%	1933	0.997	-6	-0.31%
2	4-Jan-93	1985	1906	0.38%	1933	0.986	-27	-1.41%
3	5-Jan-93	2026	1917	0.35%	1934	0.991	-16	-0.85%
4	29-Jan-93	2424	1933	0.35%	1940	0.997	-7	-0.34%
5	2-Feb-93	1985	1933	0.38%	1941	0.996	-8	-0.41%
6	2-Feb-93	2026	1907	0.37%	1941	0.983	-34	-1.75%
7	2-Feb-93	2424	1923	0.34%	1941	0.991	-18	-0.93%
8	8-Feb-93	2424	1926	0.39%	1943	0.992	-16	-0.83%
9	8-Feb-93	2026	1923	0.36%	1943	0.990	-19	-0.99%
10	9-Feb-93	1985	1918	0.38%	1943	0.987	-24	-1.25%
11	16-Feb-93	2424	1937	0.39%	1945	0.996	-8	-0.42%
12	16-Feb-93	1985	1930	0.37%	1945	0.992	-15	-0.77%
13	17-Feb-93	2026	1911	0.44%	1945	0.982	-34	-1.76%
14	22-Feb-93	1985	1925	0.35%	1946	0.989	-22	-1.11%
15	22-Feb-93	2026	1926	0.35%	1946	0.990	-20	-1.02%
16	23-Feb-93	2424	1942	0.36%	1946	0.998	-4	-0.23%
17	25-Feb-93	2026	1925	0.37%	1947	0.989	-22	-1.11%
18	1-Mar-93	2424	1933	0.34%	1948	0.992	-15	-0.75%
19	2-Mar-93	2026	1930	0.35%	1948	0.990	-19	-0.96%
20	5-Mar-93	2026	1918	0.34%	1949	0.984	-31	-1.59%
21	5-Mar-93	2424	1951	0.35%	1949	1.001	2	0.10%
22	8-Mar-93	2026	1944	0.34%	1950	0.997	-6	-0.30%
23	15-Mar-93	2026	1931	0.37%	1952	0.989	-21	-1.05%
24	15-Mar-93	2424	1934	0.39%	1952	0.991	-17	-0.88%
25	30-Mar-93	2424	1939	0.37%	1956	0.992	-16	-0.84%

RFP - ANAL. LAB.

#	Date Measured	Instr. ID	Am/239 (ppm)	Uncert. 1 STD	Accepted PPM	Ratio M/A	PPM Error	Percent Error
1	19-Mar-93	F5	1987	1.33%	1953	1.018	34	1.76%
2	19-Mar-93	F6	1956	0.95%	1953	1.002	3	0.17%
3	26-Mar-93	F6	1955	1.04%	1954	1.000	1	0.03%
4	29-Mar-93	F5	1964	1.17%	1955	1.004	9	0.45%

SAVANNAH RIVER
NO DATA REPORTED

RESULTS OF ANALYSIS OF PERCENT 238-Pu DATA

First Quarter 1993

	REPORTING LABORATORY						SRS
	CSL	LLNL	LANL	MOUND	WHO	RFP	
Mean Error (weight %)	****	-0.0001%	0.0001%	0.0002%	0.0003%	0.0016%	****
Std. Dev. (weight %)	****	0.0003%	0.0003%	0.0006%	0.0004%	0.0026%	****
Unc. in Mean (weight %)	****	0.0001%	0.0003%	0.0001%	0.0001%	0.0009%	****
Mean Error (%)	****	-0.88%	1.51%	2.26%	3.13%	17.81%	****
Std. Dev. (%)	****	3.51%	3.70%	6.10%	4.62%	28.12%	****
Unc. in Mean (%)	****	0.97%	3.10%	1.42%	0.72%	8.25%	****
DIFFERENCE FROM LAST PERIOD							
Diff. in Mean Error (wt. %)	****	0.0000%	-0.0003%	-0.0001%	0.0001%	*	****
Diff. in Std. Dev. (wt. %)	****	0.0002%	-0.0006%	-0.0001%	-0.0001%	*	****
Diff. in Mean Error (%)	****	0.11%	-3.34%	-0.83%	1.24%	*	****
Diff. in Std. Dev. (%)	****	1.92%	-6.19%	-1.47%	-1.02%	*	****
Number of Data Points	0	12	5	24	25	4	0

* NO DATA REPORTED FOR THIS MEASUREMENT IN THE PREVIOUS PERIOD

LAWRENCE LIVERMORE - PERCENT 238-PU 2ND QUARTER 1992 - 1ST QUARTER 1993

LOS ALAMOS - PERCENT 238-PU 2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

EG&G MOUND - P-EFFECTIVE **2ND QUARTER 1992 - 1ST QUARTER 1993**

All standard deviation and uncertainty limits are at two-sigma.

WESTINGHOUSE HANFORD - PERCENT 238-PU 2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

EG&G ROCKY FLATS - ANALYTICAL LAB.
PERCENT 238-PU - 2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

WEIGHT PERCENT 238-Pu DATA
1ST QUARTER 1993

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	12-Jan-93	1	0.0093%	2.53%	0.0092%	1.016	0.0001%	1.57%
2	29-Jan-93	1	0.0095%	4.20%	0.0092%	1.038	0.0003%	3.79%
3	10-Feb-93	1	0.0093%	2.95%	0.0092%	1.016	0.0001%	1.63%
4	23-Feb-93	1	0.0088%	3.41%	0.0091%	0.962	-0.0003%	-3.81%
5	3-Mar-93	1	0.0088%	3.42%	0.0091%	0.962	-0.0003%	-3.79%
6	8-Mar-93	1	0.0093%	3.22%	0.0091%	1.017	0.0002%	1.69%
7	9-Mar-93	1	0.0090%	3.76%	0.0091%	0.984	-0.0001%	-1.59%
8	10-Mar-93	1	0.0093%	3.48%	0.0091%	1.017	0.0002%	1.69%
9	11-Mar-93	1	0.0085%	3.94%	0.0091%	0.929	-0.0006%	-7.05%
10	24-Mar-93	1	0.0086%	3.16%	0.0091%	0.941	-0.0005%	-5.93%
11	25-Mar-93	1	0.0091%	2.99%	0.0091%	0.995	0.0000%	-0.46%
12	29-Mar-93	1	0.0093%	3.05%	0.0091%	1.017	0.0002%	1.73%

LANL

#	Date Measured	Instr. ID	238-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	20-Jan-93	F5	0.0094%	7.20%	0.0092%	1.025	0.0002%	2.46%
2	20-Jan-93	F6	0.0089%	7.12%	0.0092%	0.972	-0.0003%	-2.78%
3	28-Jan-93	F6	0.0098%	6.31%	0.0092%	1.072	0.0007%	7.18%
4	19-Feb-93	F6	0.0092%	6.75%	0.0091%	1.009	0.0001%	0.89%
5	8-Mar-93	F5	0.0091%	7.20%	0.0091%	0.998	0.0000%	-0.17%

EG&G MOUND

#	Date Measured	Instr. ID	238-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	7-Jan-93	GENIE2	0.0100%	5.49%	0.0092%	1.092	0.0008%	9.22%
2	14-Jan-93	GENIE2	0.0094%	6.67%	0.0092%	1.022	0.0002%	2.19%
3	14-Jan-93	GENIE2	0.0099%	7.92%	0.0092%	1.082	0.0007%	8.17%
4	14-Jan-93	GENIE2	0.0093%	6.39%	0.0092%	1.012	0.0001%	1.20%
5	15-Jan-93	GENIE2	0.0093%	5.91%	0.0092%	1.011	0.0001%	1.09%
6	15-Jan-93	GENIE2	0.0093%	7.44%	0.0092%	1.021	0.0002%	2.12%
7	15-Jan-93	GENIE2	0.0102%	8.82%	0.0092%	1.113	0.0010%	11.34%
8	27-Jan-93	GENIE2	0.0093%	5.60%	0.0092%	1.011	0.0001%	1.12%
9	27-Jan-93	GENIE2	0.0096%	5.48%	0.0092%	1.053	0.0005%	5.31%
10	28-Jan-93	GENIE2	0.0094%	6.74%	0.0092%	1.032	0.0003%	3.18%
11	10-Feb-93	GENIE2	0.0095%	5.88%	0.0092%	1.042	0.0004%	4.23%
12	23-Feb-93	GENIE2	0.0084%	9.97%	0.0091%	0.920	-0.0007%	-7.99%
13	23-Feb-93	GENIE2	0.0099%	5.61%	0.0091%	1.084	0.0008%	8.36%
14	23-Feb-93	GENIE2	0.0095%	6.75%	0.0091%	1.042	0.0004%	4.22%
15	24-Feb-93	GENIE2	0.0090%	7.35%	0.0091%	0.981	-0.0002%	-1.90%
16	2-Mar-93	GENIE2	0.0089%	7.07%	0.0091%	0.972	-0.0003%	-2.85%
17	16-Mar-93	GENIE2	0.0104%	5.86%	0.0091%	1.137	0.0013%	13.68%
18	16-Mar-93	GENIE2	0.0088%	8.06%	0.0091%	0.962	-0.0003%	-3.82%
19	17-Mar-93	GENIE2	0.0089%	7.67%	0.0091%	0.972	-0.0003%	-2.79%
20	17-Mar-93	GENIE2	0.0080%	7.96%	0.0091%	0.870	-0.0012%	-13.00%
21	17-Mar-93	GENIE2	0.0094%	6.28%	0.0091%	1.024	0.0002%	2.38%
22	17-Mar-93	GENIE2	0.0098%	7.25%	0.0091%	1.074	0.0007%	7.35%
23	17-Mar-93	GENIE2	0.0095%	6.01%	0.0091%	1.044	0.0004%	4.36%
24	23-Mar-93	GENIE2	0.0089%	6.84%	0.0091%	0.971	-0.0003%	-2.88%

**WEIGHT PERCENT 238-Pu DATA
1ST QUARTER 1993**

HANFORD

#	Date Measured	Instr. ID	238-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	4-Jan-93	2424	0.0097%	3.36%	0.0092%	1.059	0.0005%	5.92%
2	4-Jan-93	1985	0.0089%	4.05%	0.0092%	0.972	-0.0003%	-2.82%
3	5-Jan-93	2026	0.0098%	3.35%	0.0092%	1.070	0.0006%	7.01%
4	29-Jan-93	2424	0.0094%	3.42%	0.0092%	1.027	0.0002%	2.70%
5	2-Feb-93	1985	0.0089%	4.02%	0.0092%	0.972	-0.0003%	-2.76%
6	2-Feb-93	2026	0.0095%	3.61%	0.0092%	1.038	0.0003%	3.80%
7	2-Feb-93	2424	0.0091%	3.42%	0.0092%	0.994	-0.0001%	-0.57%
8	8-Feb-93	2424	0.0088%	3.97%	0.0092%	0.962	-0.0004%	-3.84%
9	8-Feb-93	2026	0.0097%	3.41%	0.0092%	1.060	0.0005%	6.00%
10	9-Feb-93	1985	0.0093%	3.82%	0.0092%	1.016	0.0001%	1.63%
11	16-Feb-93	2424	0.0093%	3.77%	0.0091%	1.016	0.0002%	1.64%
12	16-Feb-93	1985	0.0093%	3.82%	0.0091%	1.016	0.0002%	1.64%
13	17-Feb-93	2026	0.0103%	3.95%	0.0091%	1.126	0.0012%	12.58%
14	22-Feb-93	1985	0.0083%	4.02%	0.0091%	0.907	-0.0008%	-9.27%
15	22-Feb-93	2026	0.0094%	3.48%	0.0091%	1.028	0.0003%	2.75%
16	23-Feb-93	2424	0.0096%	3.44%	0.0091%	1.049	0.0005%	4.94%
17	25-Feb-93	2026	0.0096%	3.56%	0.0091%	1.049	0.0005%	4.94%
18	1-Mar-93	2424	0.0096%	3.20%	0.0091%	1.050	0.0005%	4.95%
19	2-Mar-93	2026	0.0098%	3.33%	0.0091%	1.071	0.0007%	7.14%
20	5-Mar-93	2026	0.0095%	3.34%	0.0091%	1.039	0.0004%	3.87%
21	5-Mar-93	2424	0.0096%	3.37%	0.0091%	1.050	0.0005%	4.96%
22	8-Mar-93	2026	0.0099%	3.21%	0.0091%	1.082	0.0008%	8.25%
23	15-Mar-93	2026	0.0100%	3.45%	0.0091%	1.094	0.0009%	9.36%
24	15-Mar-93	2424	0.0093%	3.86%	0.0091%	1.017	0.0002%	1.70%
25	30-Mar-93	2424	0.0093%	3.59%	0.0091%	1.017	0.0002%	1.74%

RFP - ANAL. LAB.

#	Date Measured	Instr. ID	238-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	19-Mar-93	F5	0.0099%	21.89%	0.0091%	1.081	0.0007%	8.14%
2	19-Mar-93	F6	0.0089%	11.66%	0.0091%	0.973	-0.0002%	-2.68%
3	26-Mar-93	F6	0.0097%	17.83%	0.0091%	1.064	0.0006%	6.39%
4	29-Mar-93	F5	0.0146%	12.52%	0.0091%	1.594	0.0054%	59.39%

**SAVANNAH RIVER
NO DATA REPORTED**

RESULTS OF ANALYSIS OF PERCENT 239-Pu DATA

First Quarter 1993

REPORTING LABORATORY

	CSL	LLNL	LANL	MOUND	WHO	RFP	SRS
Mean Error (weight %)	****	0.0237%	-0.0222%	0.0126%	-0.0535%	-0.0502%	****
Std. Dev. (weight %)	****	0.0220%	0.0936%	0.0532%	0.0418%	0.1658%	****
Inc. in Mean (weight %)	****	0.0076%	0.0446%	0.0140%	0.0057%	0.0723%	****
Mean Error (%)	****	0.03%	-0.02%	0.01%	-0.06%	-0.05%	****
Std. Dev. (%)	****	0.02%	0.10%	0.06%	0.04%	0.18%	****
Inc. in Mean (%)	****	0.01%	0.05%	0.01%	0.01%	0.08%	****

DIFFERENCE FROM LAST PERIOD

Diff. in Mean Error (wt. %)	****	0.0013%	-0.0184%	0.0432%	-0.0007%	*	****
Diff. in Std. Dev. (wt. %)	****	0.0048%	0.0326%	-0.0639%	0.0018%	*	****
Diff. in Mean Error (%)	****	0.01%	-0.02%	0.04%	0.00%	*	****
Diff. in Std. Dev. (%)	****	0.00%	0.04%	-0.06%	0.00%	*	****
Number of Data Points	0	12	5	24	25	4	0

NO DATA REPORTED FOR THIS MEASUREMENT IN THE PREVIOUS PERIOD

LAWRENCE LIVERMORE - PERCENT 239-PU 2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

LOS ALAMOS - PERCENT 239-PU 2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

EG&G MOUND - PERCENT 239-PU 2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

WESTINGHOUSE HANFORD - PERCENT 239-PU **2ND QUARTER 1992 - 1ST QUARTER 1993**

All standard deviation and uncertainty limits are at two-sigma.

EG&G ROCKY FLATS - ANALYTICAL LAB.
PERCENT 239-PU - 2ND QUARTER 1992 - 1ST QUARTER 1993

Date

All standard deviation and uncertainty limits are at two-sigma.

WEIGHT PERCENT 239-Pu DATA
1ST QUARTER 1993

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	12-Jan-93	1	93.9390%	0.02%	93.9084%	1.000	0.0306%	0.03%
2	29-Jan-93	1	93.8904%	0.04%	93.9088%	1.000	-0.0184%	-0.02%
3	10-Feb-93	1	93.9342%	0.03%	93.9091%	1.000	0.0251%	0.03%
4	23-Feb-93	1	93.9207%	0.03%	93.9094%	1.000	0.0113%	0.01%
5	3-Mar-93	1	93.9537%	0.03%	93.9096%	1.000	0.0441%	0.05%
6	8-Mar-93	1	93.9139%	0.02%	93.9098%	1.000	0.0041%	0.00%
7	9-Mar-93	1	93.9368%	0.03%	93.9098%	1.000	0.0270%	0.03%
8	10-Mar-93	1	93.9117%	0.03%	93.9098%	1.000	0.0019%	0.00%
9	11-Mar-93	1	93.9544%	0.03%	93.9098%	1.000	0.0446%	0.05%
10	24-Mar-93	1	93.9243%	0.02%	93.9102%	1.000	0.0141%	0.02%
11	25-Mar-93	1	93.9506%	0.03%	93.9102%	1.000	0.0404%	0.04%
12	29-Mar-93	1	93.9696%	0.02%	93.9103%	1.001	0.0593%	0.06%

LANL

#	Date Measured	Instr. ID	239-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	20-Jan-93	F5	93.8657%	0.11%	93.9086%	1.000	-0.0428%	-0.05%
2	20-Jan-93	F6	94.0504%	0.11%	93.9086%	1.002	0.1418%	0.15%
3	28-Jan-93	F6	93.8589%	0.10%	93.9088%	0.999	-0.0499%	-0.05%
4	19-Feb-93	F6	93.8404%	0.10%	93.9093%	0.999	-0.0689%	-0.07%
5	8-Mar-93	F5	93.8186%	0.11%	93.9098%	0.999	-0.0911%	-0.10%

EG&G MOUND

#	Date Measured	Instr. ID	239-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	7-Jan-93	GENIE2	93.8710%	0.07%	93.9083%	1.000	-0.0373%	-0.04%
2	14-Jan-93	GENIE2	93.9573%	0.07%	93.9084%	1.001	0.0489%	0.05%
3	14-Jan-93	GENIE2	93.8267%	0.08%	93.9084%	0.999	-0.0818%	-0.09%
4	14-Jan-93	GENIE2	93.9878%	0.06%	93.9084%	1.001	0.0794%	0.08%
5	15-Jan-93	GENIE2	93.8882%	0.06%	93.9085%	1.000	-0.0203%	-0.02%
6	15-Jan-93	GENIE2	93.8883%	0.07%	93.9085%	1.000	-0.0201%	-0.02%
7	15-Jan-93	GENIE2	93.9193%	0.07%	93.9085%	1.000	0.0109%	0.01%
8	27-Jan-93	GENIE2	93.8872%	0.07%	93.9088%	1.000	-0.0216%	-0.02%
9	27-Jan-93	GENIE2	93.9782%	0.08%	93.9088%	1.001	0.0695%	0.07%
10	28-Jan-93	GENIE2	93.8994%	0.07%	93.9088%	1.000	-0.0094%	-0.01%
11	10-Feb-93	GENIE2	93.8983%	0.08%	93.9091%	1.000	-0.0108%	-0.01%
12	23-Feb-93	GENIE2	93.9137%	0.07%	93.9094%	1.000	0.0042%	0.00%
13	23-Feb-93	GENIE2	93.9083%	0.07%	93.9094%	1.000	-0.0012%	0.00%
14	23-Feb-93	GENIE2	93.8654%	0.07%	93.9094%	1.000	-0.0440%	-0.05%
15	24-Feb-93	GENIE2	93.8723%	0.08%	93.9095%	1.000	-0.0371%	-0.04%
16	2-Mar-93	GENIE2	93.9338%	0.08%	93.9096%	1.000	0.0242%	0.03%
17	16-Mar-93	GENIE2	94.0417%	0.07%	93.9100%	1.001	0.1317%	0.14%
18	16-Mar-93	GENIE2	93.9564%	0.07%	93.9100%	1.000	0.0464%	0.05%
19	17-Mar-93	GENIE2	93.9561%	0.08%	93.9100%	1.000	0.0461%	0.05%
20	17-Mar-93	GENIE2	93.9853%	0.07%	93.9100%	1.001	0.0753%	0.08%
21	17-Mar-93	GENIE2	94.0075%	0.08%	93.9100%	1.001	0.0976%	0.10%
22	17-Mar-93	GENIE2	93.8800%	0.07%	93.9100%	1.000	-0.0299%	-0.03%
23	17-Mar-93	GENIE2	93.9465%	0.07%	93.9100%	1.000	0.0366%	0.04%
24	23-Mar-93	GENIE2	93.8564%	0.07%	93.9101%	0.999	-0.0537%	-0.06%

**WEIGHT PERCENT 239-Pu DATA
1ST QUARTER 1993**

HANFORD

#	Date Measured	Instr. ID	239-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	4-Jan-93	2424	93.8424%	0.03%	93.9082%	0.999	-0.0658%	-0.07%
2	4-Jan-93	1985	93.9013%	0.03%	93.9082%	1.000	-0.0069%	-0.01%
3	5-Jan-93	2026	93.7749%	0.03%	93.9082%	0.999	-0.1333%	-0.14%
4	29-Jan-93	2424	93.8666%	0.03%	93.9088%	1.000	-0.0422%	-0.04%
5	2-Feb-93	1985	93.8281%	0.03%	93.9089%	0.999	-0.0808%	-0.09%
6	2-Feb-93	2026	93.8617%	0.03%	93.9089%	0.999	-0.0472%	-0.05%
7	2-Feb-93	2424	93.8626%	0.03%	93.9089%	1.000	-0.0463%	-0.05%
8	8-Feb-93	2424	93.8956%	0.03%	93.9091%	1.000	-0.0135%	-0.01%
9	8-Feb-93	2026	93.8354%	0.03%	93.9091%	0.999	-0.0737%	-0.08%
10	9-Feb-93	1985	93.8726%	0.03%	93.9091%	1.000	-0.0365%	-0.04%
11	16-Feb-93	2424	93.8676%	0.03%	93.9093%	1.000	-0.0417%	-0.04%
12	16-Feb-93	1985	93.9411%	0.03%	93.9093%	1.000	0.0318%	0.03%
13	17-Feb-93	2026	93.8350%	0.04%	93.9093%	0.999	-0.0743%	-0.08%
14	22-Feb-93	1985	93.8828%	0.03%	93.9094%	1.000	-0.0266%	-0.03%
15	22-Feb-93	2026	93.8500%	0.03%	93.9094%	0.999	-0.0594%	-0.06%
16	23-Feb-93	2424	93.8538%	0.03%	93.9094%	0.999	-0.0556%	-0.06%
17	25-Feb-93	2026	93.8932%	0.03%	93.9095%	1.000	-0.0163%	-0.02%
18	1-Mar-93	2424	93.8689%	0.03%	93.9096%	1.000	-0.0407%	-0.04%
19	2-Mar-93	2026	93.7902%	0.03%	93.9096%	0.999	-0.1194%	-0.13%
20	5-Mar-93	2026	93.8891%	0.03%	93.9097%	1.000	-0.0206%	-0.02%
21	5-Mar-93	2424	93.8294%	0.03%	93.9097%	0.999	-0.0803%	-0.09%
22	8-Mar-93	2026	93.7659%	0.03%	93.9098%	0.998	-0.1439%	-0.15%
23	15-Mar-93	2026	93.8216%	0.03%	93.9099%	0.999	-0.0883%	-0.09%
24	15-Mar-93	2424	93.9202%	0.03%	93.9099%	1.000	0.0103%	0.01%
25	30-Mar-93	2424	93.8430%	0.03%	93.9103%	0.999	-0.0673%	-0.07%

RFP - ANAL. LAB.

#	Date Measured	Instr. ID	239-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	19-Mar-93	F5	93.6719%	0.17%	93.9100%	0.997	-0.2382%	-0.25%
2	19-Mar-93	F6	94.0598%	0.14%	93.9100%	1.002	0.1498%	0.16%
3	26-Mar-93	F6	93.9136%	0.13%	93.9102%	1.000	0.0033%	0.00%
4	29-Mar-93	F5	93.7947%	0.17%	93.9103%	0.999	-0.1156%	-0.12%

**SAVANNAH RIVER
NO DATA REPORTED**

RESULTS OF ANALYSIS OF PERCENT 240-Pu DATA

First Quarter 1993

	REPORTING LABORATORY						
	CSL	LLNL	LANL	MOUND	WHO	RFP	
Mean Error (weight %)	****	-0.0220%	0.0204%	0.0187%	0.0600%	0.0770%	****
Std. Dev. (weight %)	****	0.0223%	0.0931%	0.0530%	0.0410%	0.1651%	****
Unc. in Mean (weight %)	****	0.0073%	0.0450%	0.0158%	0.0056%	0.0817%	****
Mean Error (%)	****	-0.38%	0.35%	0.32%	1.02%	1.31%	****
Std. Dev. (%)	****	0.38%	1.59%	0.90%	0.70%	2.82%	****
Unc. in Mean (%)	****	0.13%	0.77%	0.27%	0.09%	1.37%	****
DIFFERENCE FROM LAST PERIOD							
Diff. in Mean Error (wt. %)	****	-0.0010%	0.0178%	-0.0423%	-0.0020%	*	****
Diff. in Std. Dev. (wt. %)	****	0.0053%	0.0304%	-0.0646%	0.0046%	*	****
Diff. in Mean Error (%)	****	-0.02%	0.31%	-0.72%	-0.04%	*	****
Diff. in Std. Dev. (%)	****	0.09%	0.52%	-1.11%	0.08%	*	****
Number of Data Points	0	12	5	24	25	4	0

NO DATA REPORTED FOR THIS MEASUREMENT IN THE PREVIOUS PERIOD

LAWRENCE LIVERMORE - PERCENT 240-PU 2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

LOS ALAMOS - PERCENT 240-PU **2ND QUARTER 1992 - 1ST QUARTER 1993**

All standard deviation and uncertainty limits are at two-sigma.

EG&G MOUND - PERCENT 240-PU **2ND QUARTER 1992 - 1ST QUARTER 1993**

All standard deviation and uncertainty limits are at two-sigma.

WESTINGHOUSE HANFORD - PERCENT 240-PU 2ND QUARTER - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

EG&G ROCKY FLATS - ANALYTICAL LAB.
PERCENT 240-PU - 2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

WEIGHT PERCENT 240-Pu DATA
1ST QUARTER 1993

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	12-Jan-93	1	5.8313%	0.35%	5.8608%	0.995	-0.0295%	-0.50%
2	29-Jan-93	1	5.8817%	0.57%	5.8608%	1.004	0.0209%	0.36%
3	10-Feb-93	1	5.8372%	0.41%	5.8608%	0.996	-0.0236%	-0.40%
4	23-Feb-93	1	5.8516%	0.44%	5.8608%	0.998	-0.0092%	-0.16%
5	3-Mar-93	1	5.8187%	0.45%	5.8608%	0.993	-0.0421%	-0.72%
6	8-Mar-93	1	5.8581%	0.40%	5.8608%	1.000	-0.0027%	-0.05%
7	9-Mar-93	1	5.8361%	0.46%	5.8608%	0.996	-0.0247%	-0.42%
8	10-Mar-93	1	5.8606%	0.44%	5.8608%	1.000	-0.0002%	0.00%
9	11-Mar-93	1	5.8192%	0.46%	5.8608%	0.993	-0.0416%	-0.71%
10	24-Mar-93	1	5.8480%	0.38%	5.8608%	0.998	-0.0128%	-0.22%
11	25-Mar-93	1	5.8213%	0.41%	5.8608%	0.993	-0.0395%	-0.67%
12	29-Mar-93	1	5.8017%	0.40%	5.8608%	0.990	-0.0591%	-1.01%

LANL

#	Date Measured	Instr. ID	240-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	20-Jan-93	F5	5.9030%	1.77%	5.8608%	1.007	0.0422%	0.72%
2	20-Jan-93	F6	5.7178%	1.76%	5.8608%	0.976	-0.1429%	-2.44%
3	28-Jan-93	F6	5.9097%	1.65%	5.8608%	1.008	0.0489%	0.83%
4	19-Feb-93	F6	5.9240%	1.66%	5.8608%	1.011	0.0632%	1.08%
5	8-Mar-93	F5	5.9512%	1.71%	5.8608%	1.015	0.0904%	1.54%

EG&G MOUND

#	Date Measured	Instr. ID	240-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	7-Jan-93	GENIE2	5.9285%	1.27%	5.8608%	1.012	0.0678%	1.16%
2	14-Jan-93	GENIE2	5.8415%	1.32%	5.8608%	0.997	-0.0193%	-0.33%
3	14-Jan-93	GENIE2	5.9714%	1.37%	5.8608%	1.019	0.1107%	1.89%
4	14-Jan-93	GENIE2	5.8116%	1.17%	5.8608%	0.992	-0.0492%	-0.84%
5	15-Jan-93	GENIE2	5.9145%	1.16%	5.8608%	1.009	0.0538%	0.92%
6	15-Jan-93	GENIE2	5.9136%	1.18%	5.8608%	1.009	0.0528%	0.90%
7	15-Jan-93	GENIE2	5.8821%	1.27%	5.8608%	1.004	0.0213%	0.36%
8	27-Jan-93	GENIE2	5.9148%	1.27%	5.8608%	1.009	0.0541%	0.92%
9	27-Jan-93	GENIE2	5.8218%	1.37%	5.8608%	0.993	-0.0389%	-0.66%
10	28-Jan-93	GENIE2	5.9004%	1.31%	5.8608%	1.007	0.0397%	0.68%
11	10-Feb-93	GENIE2	5.9042%	1.35%	5.8608%	1.007	0.0434%	0.74%
12	23-Feb-93	GENIE2	5.8888%	1.29%	5.8608%	1.005	0.0280%	0.48%
13	23-Feb-93	GENIE2	5.8919%	1.34%	5.8608%	1.005	0.0311%	0.53%
14	23-Feb-93	GENIE2	5.9356%	1.32%	5.8608%	1.013	0.0749%	1.28%
15	24-Feb-93	GENIE2	5.9290%	1.37%	5.8608%	1.012	0.0683%	1.16%
16	2-Mar-93	GENIE2	5.8694%	1.41%	5.8608%	1.001	0.0086%	0.15%
17	16-Mar-93	GENIE2	5.7609%	1.33%	5.8608%	0.983	-0.0999%	-1.70%
18	16-Mar-93	GENIE2	5.8466%	1.35%	5.8608%	0.998	-0.0142%	-0.24%
19	17-Mar-93	GENIE2	5.8460%	1.42%	5.8608%	0.997	-0.0148%	-0.25%
20	17-Mar-93	GENIE2	5.8175%	1.31%	5.8608%	0.993	-0.0432%	-0.74%
21	17-Mar-93	GENIE2	5.7958%	1.41%	5.8608%	0.989	-0.0650%	-1.11%
22	17-Mar-93	GENIE2	5.9208%	1.31%	5.8608%	1.010	0.0600%	1.02%
23	17-Mar-93	GENIE2	5.8546%	1.27%	5.8608%	0.999	-0.0062%	-0.11%
24	23-Mar-93	GENIE2	5.9455%	1.33%	5.8608%	1.014	0.0847%	1.45%

**WEIGHT PERCENT 240-Pu DATA
1ST QUARTER 1993**

HANFORD

#	Date Measured	Instr. ID	240-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	4-Jan-93	2424	5.9331%	0.46%	5.8608%	1.012	0.0723%	1.23%
2	4-Jan-93	1985	5.8757%	0.50%	5.8608%	1.003	0.0149%	0.26%
3	5-Jan-93	2026	5.9981%	0.45%	5.8608%	1.023	0.1373%	2.34%
4	29-Jan-93	2424	5.9093%	0.46%	5.8608%	1.008	0.0485%	0.83%
5	2-Feb-93	1985	5.9487%	0.49%	5.8608%	1.015	0.0879%	1.50%
6	2-Feb-93	2026	5.9162%	0.48%	5.8608%	1.009	0.0554%	0.95%
7	2-Feb-93	2424	5.9131%	0.44%	5.8608%	1.009	0.0523%	0.89%
8	8-Feb-93	2424	5.8818%	0.50%	5.8608%	1.004	0.0210%	0.36%
9	8-Feb-93	2026	5.9411%	0.46%	5.8608%	1.014	0.0803%	1.37%
10	9-Feb-93	1985	5.9043%	0.49%	5.8608%	1.007	0.0435%	0.74%
11	16-Feb-93	2424	5.9083%	0.50%	5.8608%	1.008	0.0475%	0.81%
12	16-Feb-93	1985	5.8372%	0.49%	5.8608%	0.996	-0.0236%	-0.40%
13	17-Feb-93	2026	5.9397%	0.56%	5.8608%	1.013	0.0789%	1.35%
14	22-Feb-93	1985	5.8967%	0.46%	5.8608%	1.006	0.0359%	0.61%
15	22-Feb-93	2026	5.9255%	0.45%	5.8608%	1.011	0.0647%	1.10%
16	23-Feb-93	2424	5.9233%	0.47%	5.8608%	1.011	0.0625%	1.07%
17	25-Feb-93	2026	5.8830%	0.48%	5.8608%	1.004	0.0222%	0.38%
18	1-Mar-93	2424	5.9083%	0.44%	5.8608%	1.008	0.0475%	0.81%
19	2-Mar-93	2026	5.9860%	0.45%	5.8608%	1.021	0.1252%	2.14%
20	5-Mar-93	2026	5.8879%	0.44%	5.8608%	1.005	0.0271%	0.46%
21	5-Mar-93	2424	5.9463%	0.46%	5.8608%	1.015	0.0855%	1.46%
22	8-Mar-93	2026	6.0100%	0.44%	5.8608%	1.025	0.1492%	2.55%
23	15-Mar-93	2026	5.9540%	0.48%	5.8608%	1.016	0.0932%	1.59%
24	15-Mar-93	2424	5.8567%	0.51%	5.8608%	0.999	-0.0041%	-0.07%
25	30-Mar-93	2424	5.9353%	0.48%	5.8608%	1.013	0.0745%	1.27%

RFP - ANAL. LAB.

#	Date Measured	Instr. ID	240-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	19-Mar-93	F5	6.1270%	2.96%	5.8608%	1.045	0.2662%	4.54%
2	19-Mar-93	F6	5.7385%	2.55%	5.8608%	0.979	-0.1222%	-2.09%
3	26-Mar-93	F6	5.8869%	2.28%	5.8608%	1.004	0.0262%	0.45%
4	29-Mar-93	F5	5.9986%	3.10%	5.8608%	1.024	0.1378%	2.35%

**SAVANNAH RIVER
NO DATA REPORTED**

RESULTS OF ANALYSIS OF PERCENT 241-Pu DATA

First Quarter 1993

	REPORTING LABORATORY						
	CSL	LLNL	LANL	MOUND	WHO	RFP	
Mean Error (weight %)	****	-0.0015%	0.0005%	-0.0024%	-0.0006%	0.0006%	****
Std. Dev. (weight %)	****	0.0007%	0.0002%	0.0011%	0.0009%	0.0012%	****
Unc. in Mean (weight %)	****	0.0002%	0.0001%	0.0003%	0.0001%	0.0009%	****
Mean Error (%)	****	-0.79%	0.28%	-1.27%	-0.31%	0.34%	****
Std. Dev. (%)	****	0.36%	0.11%	0.59%	0.45%	0.65%	****
Unc. in Mean (%)	****	0.10%	0.07%	0.16%	0.07%	0.49%	****
DIFFERENCE FROM LAST PERIOD							
Diff. in Mean Error (wt. %)	****	-0.0003%	0.0000%	-0.0008%	0.0001%	*	****
Diff. in Std. Dev. (wt. %)	****	0.0005%	-0.0005%	0.0001%	0.0001%	*	****
Diff. in Mean Error (%)	****	-0.19%	0.04%	-0.43%	0.06%	*	****
Diff. in Std. Dev. (%)	****	0.24%	-0.25%	0.05%	0.02%	*	****
Number of Data Points	0	12	5	24	25	4	0

* NO DATA REPORTED FOR THIS MEASUREMENT IN THE PREVIOUS PERIOD

LAWRENCE LIVERMORE - PERCENT 241-PU **2ND QUARTER 1992 - 1ST QUARTER 1993**

LOS ALAMOS - PERCENT 241-PU **2ND QUARTER 1992 - 1ST QUARTER 1993**

All standard deviation and uncertainty limits are at two-sigma.

EG&G MOUND - PERCENT 241-PJ **2ND QUARTER 1992 - 1ST QUARTER 1993**

All standard deviation and uncertainty limits are at two-sigma.

WESTINGHOUSE HANFORD - PERCENT 241-PU **2ND QUARTER 1992 - 1ST QUARTER 1993**

All standard deviation and uncertainty limits are at two-sigma.

EG&G ROCKY FLATS - ANALYTICAL LAB.
PERCENT 241-PU - 2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

**WEIGHT PERCENT 241-Pu DATA
1ST QUARTER 1993**

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	12-Jan-93	1	0.1914%	0.28%	0.1926%	0.994	-0.0012%	-0.62%
2	29-Jan-93	1	0.1894%	0.46%	0.1922%	0.986	-0.0028%	-1.44%
3	10-Feb-93	1	0.1902%	0.32%	0.1919%	0.991	-0.0017%	-0.87%
4	23-Feb-93	1	0.1900%	0.35%	0.1915%	0.992	-0.0015%	-0.80%
5	3-Mar-93	1	0.1898%	0.35%	0.1913%	0.992	-0.0015%	-0.80%
6	8-Mar-93	1	0.1897%	0.33%	0.1912%	0.992	-0.0015%	-0.79%
7	9-Mar-93	1	0.1891%	0.37%	0.1912%	0.989	-0.0021%	-1.09%
8	10-Mar-93	1	0.1895%	0.36%	0.1912%	0.991	-0.0017%	-0.87%
9	11-Mar-93	1	0.1888%	0.38%	0.1911%	0.988	-0.0023%	-1.22%
10	24-Mar-93	1	0.1901%	0.31%	0.1908%	0.996	-0.0007%	-0.37%
11	25-Mar-93	1	0.1899%	0.33%	0.1908%	0.995	-0.0009%	-0.46%
12	29-Mar-93	1	0.1904%	0.32%	0.1907%	0.999	-0.0003%	-0.15%

LANL

#	Date Measured	Instr. ID	241-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	20-Jan-93	F5	0.1929%	0.16%	0.1924%	1.003	0.0005%	0.26%
2	20-Jan-93	F6	0.1929%	0.16%	0.1924%	1.003	0.0005%	0.26%
3	28-Jan-93	F6	0.1926%	0.15%	0.1922%	1.002	0.0004%	0.21%
4	19-Feb-93	F6	0.1920%	0.15%	0.1916%	1.002	0.0004%	0.19%
5	8-Mar-93	F5	0.1921%	0.16%	0.1912%	1.005	0.0009%	0.47%

EG&G MOUND

#	Date Measured	Instr. ID	241-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	7-Jan-93	GENIE2	0.1905%	0.74%	0.1927%	0.988	-0.0022%	-1.17%
2	14-Jan-93	GENIE2	0.1918%	0.75%	0.1926%	0.996	-0.0007%	-0.37%
3	14-Jan-93	GENIE2	0.1920%	0.72%	0.1926%	0.997	-0.0005%	-0.28%
4	14-Jan-93	GENIE2	0.1914%	0.68%	0.1926%	0.994	-0.0012%	-0.61%
5	15-Jan-93	GENIE2	0.1881%	0.75%	0.1925%	0.977	-0.0044%	-2.31%
6	15-Jan-93	GENIE2	0.1887%	0.69%	0.1925%	0.980	-0.0038%	-1.97%
7	15-Jan-93	GENIE2	0.1884%	0.72%	0.1925%	0.978	-0.0041%	-2.15%
8	27-Jan-93	GENIE2	0.1887%	0.75%	0.1922%	0.982	-0.0035%	-1.82%
9	27-Jan-93	GENIE2	0.1903%	0.77%	0.1922%	0.990	-0.0019%	-1.01%
10	28-Jan-93	GENIE2	0.1907%	0.77%	0.1922%	0.992	-0.0015%	-0.78%
11	10-Feb-93	GENIE2	0.1880%	0.79%	0.1919%	0.980	-0.0038%	-2.00%
12	23-Feb-93	GENIE2	0.1891%	0.82%	0.1915%	0.987	-0.0024%	-1.28%
13	23-Feb-93	GENIE2	0.1899%	0.82%	0.1915%	0.992	-0.0016%	-0.85%
14	23-Feb-93	GENIE2	0.1894%	0.78%	0.1915%	0.989	-0.0022%	-1.13%
15	24-Feb-93	GENIE2	0.1897%	0.79%	0.1915%	0.990	-0.0019%	-0.97%
16	2-Mar-93	GENIE2	0.1879%	0.83%	0.1914%	0.982	-0.0034%	-1.79%
17	16-Mar-93	GENIE2	0.1870%	0.90%	0.1910%	0.979	-0.0040%	-2.10%
18	16-Mar-93	GENIE2	0.1883%	0.87%	0.1910%	0.986	-0.0027%	-1.43%
19	17-Mar-93	GENIE2	0.1890%	0.78%	0.1910%	0.990	-0.0019%	-1.02%
20	17-Mar-93	GENIE2	0.1892%	0.79%	0.1910%	0.991	-0.0017%	-0.92%
21	17-Mar-93	GENIE2	0.1873%	0.85%	0.1910%	0.981	-0.0037%	-1.94%
22	17-Mar-93	GENIE2	0.1893%	0.78%	0.1910%	0.991	-0.0016%	-0.86%
23	17-Mar-93	GENIE2	0.1893%	0.86%	0.1910%	0.991	-0.0016%	-0.86%
24	23-Mar-93	GENIE2	0.1892%	0.69%	0.1908%	0.991	-0.0017%	-0.88%

**WEIGHT PERCENT 241-Pu DATA
1ST QUARTER 1993**

HANFORD

#	Date Measured	Instr. ID	241-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	4-Jan-93	2424	0.1919%	0.36%	0.1928%	0.995	-0.0009%	-0.47%
2	4-Jan-93	1985	0.1913%	0.38%	0.1928%	0.992	-0.0015%	-0.78%
3	5-Jan-93	2026	0.1939%	0.35%	0.1928%	1.006	0.0011%	0.58%
4	29-Jan-93	2424	0.1919%	0.35%	0.1922%	0.999	-0.0003%	-0.14%
5	2-Feb-93	1985	0.1912%	0.37%	0.1921%	0.995	-0.0009%	-0.45%
6	2-Feb-93	2026	0.1898%	0.37%	0.1921%	0.988	-0.0023%	-1.18%
7	2-Feb-93	2424	0.1922%	0.34%	0.1921%	1.001	0.0001%	0.07%
8	8-Feb-93	2424	0.1911%	0.38%	0.1919%	0.996	-0.0008%	-0.43%
9	8-Feb-93	2026	0.1909%	0.35%	0.1919%	0.995	-0.0010%	-0.53%
10	9-Feb-93	1985	0.1910%	0.36%	0.1919%	0.995	-0.0009%	-0.47%
11	16-Feb-93	2424	0.1918%	0.39%	0.1917%	1.000	0.0001%	0.04%
12	16-Feb-93	1985	0.1899%	0.36%	0.1917%	0.991	-0.0018%	-0.95%
13	17-Feb-93	2026	0.1920%	0.43%	0.1917%	1.002	0.0003%	0.16%
14	22-Feb-93	1985	0.1893%	0.34%	0.1916%	0.988	-0.0023%	-1.18%
15	22-Feb-93	2026	0.1922%	0.34%	0.1916%	1.003	0.0006%	0.33%
16	23-Feb-93	2424	0.1903%	0.36%	0.1915%	0.994	-0.0012%	-0.65%
17	25-Feb-93	2026	0.1913%	0.36%	0.1915%	0.999	-0.0002%	-0.10%
18	1-Mar-93	2424	0.1904%	0.34%	0.1914%	0.995	-0.0010%	-0.52%
19	2-Mar-93	2026	0.1907%	0.35%	0.1914%	0.997	-0.0007%	-0.35%
20	5-Mar-93	2026	0.1907%	0.34%	0.1913%	0.997	-0.0006%	-0.31%
21	5-Mar-93	2424	0.1917%	0.36%	0.1913%	1.002	0.0004%	0.22%
22	8-Mar-93	2026	0.1909%	0.34%	0.1912%	0.998	-0.0003%	-0.16%
23	15-Mar-93	2026	0.1914%	0.37%	0.1910%	1.002	0.0004%	0.19%
24	15-Mar-93	2424	0.1911%	0.40%	0.1910%	1.000	0.0001%	0.03%
25	30-Mar-93	2424	0.1895%	0.37%	0.1907%	0.994	-0.0012%	-0.61%

RFP - ANAL. LAB.

#	Date Measured	Instr. ID	241-Pu	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	19-Mar-93	F5	0.1913%	1.28%	0.1909%	1.002	0.0003%	0.18%
2	19-Mar-93	F6	0.1927%	0.68%	0.1909%	1.009	0.0018%	0.94%
3	26-Mar-93	F6	0.1898%	1.12%	0.1908%	0.995	-0.0010%	-0.51%
4	29-Mar-93	F5	0.1921%	0.74%	0.1907%	1.007	0.0014%	0.74%

**SAVANNAH RIVER
NO DATA REPORTED**

RESULTS OF ANALYSIS OF PERCENT 241-Am DATA

First Quarter 1993

	REPORTING LABORATORY						
	CSL	LLNL	LANL	MOUND	WHO	RFP	SRS
Mean Error (weight %)	****	-0.0030%	0.0015%	0.0009%	-0.0017%	0.0010%	****
Std. Dev. (weight %)	****	0.0003%	0.0028%	0.0006%	0.0009%	0.0012%	****
Unc. in Mean (weight %)	****	0.0002%	0.0006%	0.0002%	0.0001%	0.0011%	****
Mean Error (%)	****	-1.62%	0.80%	0.46%	-0.93%	0.55%	****
Std. Dev. (%)	****	0.18%	1.52%	0.30%	0.47%	0.65%	****
Unc. in Mean (%)	****	0.11%	0.33%	0.13%	0.07%	0.57%	****
DIFFERENCE FROM LAST PERIOD							
Diff. in Mean Error (wt. %)	****	-0.0003%	0.0031%	0.0001%	0.0002%	*	****
Diff. in Std. Dev. (wt. %)	****	-0.0002%	0.0013%	-0.0007%	0.0002%	*	****
Diff. in Mean Error (%)	****	-0.14%	1.70%	0.02%	0.11%	*	****
Diff. in Std. Dev. (%)	****	-0.09%	0.71%	-0.42%	0.10%	*	****
Number of Data Points	0	12	5	24	25	4	0

* NO DATA REPORTED FOR THIS MEASUREMENT IN THE PREVIOUS PERIOD

LAWRENCE LIVERMORE - PERCENT 241-AM 2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

LOS ALAMOS - PERCENT 241-AM 2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

EG&G MOUND - PERCENT 241-AM 2ND QUARTER 1992 - 1ST QUARTER 1993

Date

All standard deviation and uncertainty limits are at two-sigma.

WESTINGHOUSE HANFORD - PERCENT 241-AM 2ND QUARTER 1992 - 1ST QUARTER 1993

EG&G ROCKY FLATS - ANALYTICAL LAB.
PERCENT 241-AM - 2ND QUARTER 1992 - 1ST QUARTER 1993

All standard deviation and uncertainty limits are at two-sigma.

WEIGHT PERCENT 241-Am DATA
1ST QUARTER 1993

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	12-Jan-93	1	0.1800%	0.30%	0.1833%	0.982	-0.0033%	-1.79%
2	29-Jan-93	1	0.1801%	0.48%	0.1837%	0.980	-0.0036%	-1.96%
3	10-Feb-93	1	0.1815%	0.34%	0.1840%	0.986	-0.0025%	-1.36%
4	23-Feb-93	1	0.1815%	0.37%	0.1843%	0.985	-0.0028%	-1.53%
5	3-Mar-93	1	0.1818%	0.37%	0.1845%	0.985	-0.0027%	-1.47%
6	8-Mar-93	1	0.1813%	0.37%	0.1846%	0.982	-0.0033%	-1.81%
7	9-Mar-93	1	0.1817%	0.41%	0.1847%	0.984	-0.0030%	-1.61%
8	10-Mar-93	1	0.1818%	0.39%	0.1847%	0.984	-0.0029%	-1.57%
9	11-Mar-93	1	0.1815%	0.41%	0.1847%	0.983	-0.0032%	-1.74%
10	24-Mar-93	1	0.1822%	0.33%	0.1850%	0.985	-0.0028%	-1.53%
11	25-Mar-93	1	0.1824%	0.33%	0.1851%	0.986	-0.0027%	-1.44%
12	29-Mar-93	1	0.1821%	0.34%	0.1852%	0.983	-0.0031%	-1.65%

LANL

#	Date Measured	Instr. ID	241-Am	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	20-Jan-93	F5	0.1854%	0.79%	0.1835%	1.010	0.0019%	1.04%
2	20-Jan-93	F6	0.1860%	0.72%	0.1835%	1.013	0.0025%	1.35%
3	28-Jan-93	F6	0.1860%	0.71%	0.1837%	1.013	0.0023%	1.25%
4	19-Feb-93	F6	0.1882%	0.70%	0.1842%	1.022	0.0040%	2.16%
5	8-Mar-93	F5	0.1813%	0.79%	0.1846%	0.982	-0.0033%	-1.81%

EG&G MOUND

#	Date Measured	Instr. ID	241-Am	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	7-Jan-93	GENIE2	0.1843%	0.58%	0.1832%	1.006	0.0011%	0.61%
2	14-Jan-93	GENIE2	0.1850%	0.63%	0.1833%	1.009	0.0017%	0.92%
3	14-Jan-93	GENIE2	0.1836%	0.65%	0.1833%	1.001	0.0003%	0.15%
4	14-Jan-93	GENIE2	0.1850%	0.53%	0.1833%	1.009	0.0017%	0.90%
5	15-Jan-93	GENIE2	0.1835%	0.57%	0.1834%	1.001	0.0001%	0.06%
6	15-Jan-93	GENIE2	0.1835%	0.59%	0.1834%	1.001	0.0001%	0.06%
7	15-Jan-93	GENIE2	0.1844%	0.59%	0.1834%	1.006	0.0011%	0.58%
8	27-Jan-93	GENIE2	0.1846%	0.59%	0.1837%	1.005	0.0010%	0.53%
9	27-Jan-93	GENIE2	0.1849%	0.62%	0.1837%	1.007	0.0013%	0.69%
10	28-Jan-93	GENIE2	0.1848%	0.61%	0.1837%	1.006	0.0011%	0.59%
11	10-Feb-93	GENIE2	0.1844%	0.67%	0.1840%	1.002	0.0004%	0.21%
12	23-Feb-93	GENIE2	0.1846%	0.63%	0.1843%	1.002	0.0003%	0.17%
13	23-Feb-93	GENIE2	0.1850%	0.63%	0.1843%	1.004	0.0007%	0.39%
14	23-Feb-93	GENIE2	0.1850%	0.63%	0.1843%	1.004	0.0007%	0.37%
15	24-Feb-93	GENIE2	0.1852%	0.66%	0.1843%	1.005	0.0009%	0.47%
16	2-Mar-93	GENIE2	0.1850%	0.66%	0.1845%	1.003	0.0006%	0.30%
17	16-Mar-93	GENIE2	0.1864%	0.62%	0.1848%	1.008	0.0016%	0.84%
18	16-Mar-93	GENIE2	0.1852%	0.64%	0.1848%	1.002	0.0003%	0.18%
19	17-Mar-93	GENIE2	0.1854%	0.67%	0.1849%	1.003	0.0005%	0.30%
20	17-Mar-93	GENIE2	0.1852%	0.63%	0.1849%	1.002	0.0003%	0.19%
21	17-Mar-93	GENIE2	0.1868%	0.70%	0.1849%	1.011	0.0020%	1.05%
22	17-Mar-93	GENIE2	0.1856%	0.62%	0.1849%	1.004	0.0007%	0.39%
23	17-Mar-93	GENIE2	0.1866%	0.60%	0.1849%	1.009	0.0017%	0.91%
24	23-Mar-93	GENIE2	0.1854%	0.65%	0.1850%	1.002	0.0004%	0.22%

WEIGHT PERCENT 241-Am DATA
1ST QUARTER 1993

HANFORD

#	Date Measured	Instr. ID	241-Am	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	4-Jan-93	2424	0.1824%	0.36%	0.1831%	0.996	-0.0007%	-0.38%
2	4-Jan-93	1985	0.1805%	0.38%	0.1831%	0.986	-0.0026%	-1.41%
3	5-Jan-93	2026	0.1813%	0.35%	0.1831%	0.990	-0.0018%	-0.99%
4	29-Jan-93	2424	0.1830%	0.35%	0.1837%	0.996	-0.0007%	-0.39%
5	2-Feb-93	1985	0.1829%	0.38%	0.1838%	0.995	-0.0009%	-0.49%
6	2-Feb-93	2026	0.1805%	0.37%	0.1838%	0.982	-0.0033%	-1.80%
7	2-Feb-93	2424	0.1820%	0.34%	0.1838%	0.990	-0.0018%	-0.98%
8	8-Feb-93	2424	0.1824%	0.39%	0.1840%	0.992	-0.0016%	-0.85%
9	8-Feb-93	2026	0.1820%	0.36%	0.1840%	0.989	-0.0020%	-1.06%
10	9-Feb-93	1985	0.1816%	0.38%	0.1840%	0.987	-0.0024%	-1.29%
11	16-Feb-93	2424	0.1833%	0.39%	0.1842%	0.995	-0.0009%	-0.46%
12	16-Feb-93	1985	0.1828%	0.37%	0.1842%	0.993	-0.0014%	-0.73%
13	17-Feb-93	2026	0.1808%	0.44%	0.1842%	0.982	-0.0034%	-1.83%
14	22-Feb-93	1985	0.1822%	0.35%	0.1843%	0.989	-0.0021%	-1.14%
15	22-Feb-93	2026	0.1823%	0.35%	0.1843%	0.989	-0.0020%	-1.08%
16	23-Feb-93	2424	0.1838%	0.36%	0.1843%	0.997	-0.0005%	-0.28%
17	25-Feb-93	2026	0.1823%	0.37%	0.1844%	0.989	-0.0021%	-1.12%
18	1-Mar-93	2424	0.1830%	0.34%	0.1845%	0.992	-0.0015%	-0.80%
19	2-Mar-93	2026	0.1825%	0.35%	0.1845%	0.989	-0.0020%	-1.08%
20	5-Mar-93	2026	0.1816%	0.34%	0.1846%	0.984	-0.0030%	-1.61%
21	5-Mar-93	2424	0.1846%	0.35%	0.1846%	1.000	0.0000%	0.02%
22	8-Mar-93	2026	0.1838%	0.34%	0.1846%	0.995	-0.0008%	-0.46%
23	15-Mar-93	2026	0.1827%	0.37%	0.1848%	0.989	-0.0021%	-1.14%
24	15-Mar-93	2424	0.1832%	0.39%	0.1848%	0.991	-0.0016%	-0.87%
25	30-Mar-93	2424	0.1835%	0.37%	0.1852%	0.991	-0.0017%	-0.91%

RFP - ANAL. LAB.

#	Date Measured	Instr. ID	241-Am	Uncert. 1 STD	Accepted Weight %	Ratio M/A	Weight % Error	Percent Error
1	19-Mar-93	F5	0.1877%	1.34%	0.1849%	1.015	0.0028%	1.50%
2	19-Mar-93	F6	0.1855%	0.96%	0.1849%	1.003	0.0006%	0.33%
3	26-Mar-93	F6	0.1851%	1.05%	0.1851%	1.000	0.0001%	0.03%
4	29-Mar-93	F5	0.1858%	1.18%	0.1852%	1.003	0.0006%	0.32%

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)

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