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# Assay of Long-Lived Radionuclides in Low-Level Wastes From Power Reactors

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## SUMMARY

In 1982, when the NRC regulation 10 CFR Part 61 was published in the Federal Register, little data existed on the abundances of many nuclides specified in 10 CFR Part 61 for typical low-level wastes from nuclear power plants. As part of its program to implement the new regulation, the NRC contracted with SAIC to produce a database and explore the possibility of scaling radionuclides that require complex radioanalytical methods to radionuclides that are more easily measured.

The bulk of the radioanalysis under the contract was to be on archived remnants of waste samples previously analyzed by SAIC. Twenty new samples were obtained to test the sampling methodology in the NRC Branch Technical Position and to provide a comparison of data from archived and current samples.

SAIC combined the new results with the previous data and with data from SAIC's commercial samples to establish a large database of 10 CFR Part 61 nuclide concentrations for typical waste streams from over fifty commercial operating pressurized and boiling water reactors. SAIC used these data for computer-aided searches of concentration correlations between the 10 CFR Part 61 nuclides and readily measured gamma ray emitting nuclides. The primary nuclide correlations studied were  $^{14}\text{C}$ ,  $^{55}\text{Fe}$ ,  $^{59}\text{Ni}$ ,  $^{63}\text{Ni}$ , and  $^{94}\text{Nb}$ , with  $^{60}\text{Co}$ ;  $^{90}\text{Sr}$ ,  $^{99}\text{Tc}$ ,  $^{129}\text{I}$ ,  $^{135}\text{Cs}$ , and  $^{239,240}\text{Pu}$  with  $^{137}\text{Cs}$ ;  $^{238}\text{Pu}$ ,  $^{239,240}\text{Pu}$ ,  $^{241}\text{Pu}$ ,  $^{241}\text{Am}$ ,  $^{242}\text{Cm}$ , and  $^{243,244}\text{Cm}$  with  $^{144}\text{Ce}$ ; and  $^{238}\text{Pu}$ ,  $^{241}\text{Pu}$ ,  $^{241}\text{Am}$ ,  $^{242}\text{Cm}$  and  $^{243,244}\text{Cm}$  with  $^{239,240}\text{Pu}$ .

Correlation studies showed that all corrosion products scale adequately to  $^{60}\text{Co}$  and that the scaling factors are generic. An important corrosion product was found to be  $^{63}\text{Ni}$  which will usually dominate waste classification determination over any other corrosion product.

All fission products were scaled to  $^{137}\text{Cs}$  although generic scaling factors could not be found for these nuclides. Difficulties in scaling  $^{90}\text{Sr}$  to  $^{137}\text{Cs}$  (i.e., derived scaling factor values have large uncertainties) may be due to differences in nuclide transport and filtration properties within radwaste systems; hence, plant- and radwaste-specific correlations are needed for  $^{90}\text{Sr}$ . The strontium nuclide can in some cases control the waste classification. Because of the small number of positive  $^{99}\text{Tc}$  and  $^{129}\text{I}$  values, and the absence of any trend in the available data, scaling factors relating  $^{99}\text{Tc}$  and  $^{129}\text{I}$  to  $^{137}\text{Cs}$  should also be applied only on a waste stream and plant specific basis. The data for the technetium and iodine activities indicates that neither of these nuclides are important in establishing the classification of the waste except possibly for Class "C" waste. The nuclide,  $^{135}\text{Cs}$ , measured in five samples, correlated well with  $^{137}\text{Cs}$ .

All transuranic nuclides, including  $^{241}\text{Pu}$ , show good correlations with  $^{144}\text{Ce}$  and generic scaling factors were determined for relating transuranics to  $^{144}\text{Ce}$ . The analyses showed a slight difference in the scaling factors between BWR and PWR plants that was not observed in a previous EPRI study. The drawback to using  $^{144}\text{Ce}$  is that it is difficult to measure by gamma ray spectrometry in the field. Practical scaling could be performed on a plant, waste stream, and time specific basis with  $^{60}\text{Co}$  and  $^{137}\text{Cs}$ , although the scaling factors based on these nuclides have large uncertainties.

Comparison of scaling factor results from the archived samples, the twenty new samples collected in the NRC demonstration, and the commercial samples in the SAIC database showed no pattern attributable to date of sampling or to sample aging effects.

The Branch Technical Position (May 1983) recommends that plants establish baseline activity concentrations and scaling factors and then conduct periodic scaling factor verifications. The present study confirms that this is a feasible approach to achieving accuracies within the required tolerances. The verification program would result in new scaling factors whenever the waste character changes. Streams that generate Class "A" wastes

could be sampled on a biennial basis unless there are reasons to believe that there were changes in the plant sufficient to cause classification concerns; changes such as fuel failures or system alteration. Verification sampling of all waste streams that generate potentially Class "B" or "C" wastes could be conducted on an annual basis. Special samples should be taken following changes in radwaste operations or in fuel performance, noted by changes in relative nuclide activities and total radioactivity in the reactor coolant by factors of four or greater.

Practical analytical sensitivities, obtained from those actually achieved in the analyses of typical waste samples, indicate that the desired sensitivities of the BTP may not be realizable for the  $^{94}\text{Nb}$  and  $^{129}\text{I}$  nuclides, particularly in higher-level wastes. Since the data indicate that these nuclides seldom influence the classification, SAIC suggests that the desired sensitivities could be relaxed for these nuclides.

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## 1.0 INTRODUCTION

The NRC regulation governing disposal of low-level radioactive waste (10 CFR Part 61), published in the Federal Register on December 27, 1982, requires that wastes designated for near-surface disposal be classified as Class A, Class B, or Class C waste dependent on their activity concentrations. Waste classification is to be based upon the radionuclide concentration limits listed in Tables 1 and 2 of Section 61.55 of the Regulation.

Tables 1-1 and 1-2 reproduce, respectively, Tables 1 and 2 of 10 CFR Part 61. Table 1-3 lists the decay characteristics of these nuclides. Many do not emit measureable gamma-rays in their decay and are measured only through complicated and time-consuming radiochemical and nuclear counting processes. In 1982, little data existed upon which to base estimates of concentrations of these nuclides in waste; in some cases, it was not even known whether typical wastes have concentrations for these nuclides that approach the limits.

An EPRI funded study,<sup>1</sup> begun in 1976 and ended in 1980, measured concentrations of transuranics, gamma-ray-emitting nuclides and radiostrontium isotopes in samples of solid waste. The study included samples collected over a period of forty-two months from twenty-five plants: eleven boiling water reactors (BWR) and fourteen pressurized water reactors (PWR). The program collected over three-hundred samples of radwaste, including resins, filter sludge, evaporator bottoms, and reactor coolant insolubles. Statistical averaging over the several plants, the length of the program, and the many samples collected addressed the questions of homogeneity and representativeness of any particular sample. The study produced the most comprehensive database available at that time for the quantitative assessment of low-level waste-disposal issues. Furthermore, the study produced an indirect method of estimating plutonium concentrations based on assaying the more readily measured gamma-emitting nuclide, <sup>144</sup>Ce; a scaling factor method.

In order to implement the 10 CFR Part 61 waste classification system in a manner that is enforceable, is practical, and provides sufficiently accu-

TABLE 1-1  
TABLE 1 OF 10 CFR 61.55

<u>Radionuclide</u>	<u>Concentration Curies/cubic meter</u>
$^{14}\text{C}$	8
$^{14}\text{C}$ in activated metal	80
$^{59}\text{Ni}$ in activated metal	220
$^{94}\text{Nb}$ in activated metal	0.2
$^{99}\text{Tc}$	3
$^{129}\text{I}$	0.08
Alpha emitting transuranic nuclides with half-life greater than five years	100*
$^{241}\text{Pu}$	3,500*
$^{242}\text{Cm}$	20,000*

---

\*Units are nanocuries per gram

TABLE 1-2

TABLE 2 OF 10 CFR 61.55

<u>Radionuclide</u>	<u>Concentration, Curies/cubic meter</u>		
	<u>Class A</u>	<u>Class B</u>	<u>Class C</u>
Total of all nuclides with less than 5 year half life	700	**	**
<sup>3</sup> H	40	**	**
<sup>60</sup> Co	700	**	**
<sup>63</sup> Ni	3.5	70	700
<sup>63</sup> Ni in activated metal	35	700	7000
<sup>90</sup> Sr	0.04	150	7000
<sup>137</sup> Cs	1	44	4600

---

\*\* There are no limits established for these radionuclides in Class B or C wastes. Practical considerations such as the effects of external radiation and internal heat generation on transportation, handling, and disposal will limit the concentrations for these wastes. These wastes shall be Class B unless the concentrations of other nuclides in Table 2 determine the waste to the Class C independent of these nuclides.

TABLE 1-3

## CHARACTERISTICS OF HARD-TO-MEASURE NUCLIDES

<u>Isotope</u>	<u>Half Life (years)</u>	<u>Radiation Emitted</u>	<u>Principal Means of Production</u>
$^3\text{H}$	12.3	$\beta$	Fission; Li-6 (n, $\alpha$ )
$^{14}\text{C}$	5730	$\beta$	N-14 (n, p)
$^{55}\text{Fe}$	2.60	X	Fe-54 (n, $\gamma$ )
$^{59}\text{Ni}$	80,000	X	Ni-58 (n, $\gamma$ )
$^{63}\text{Ni}$	92	$\beta$	Ni-62 (n, $\gamma$ )
$^{90}\text{Sr}$	28.1	$\beta$	Fission
$^{94}\text{Nb}$	20,000	$\beta$ , $\gamma$	Nb-93 (n, $\gamma$ )
$^{99}\text{Tc}$	$2.12 \times 10^5$	$\beta$	Fission, Mo-98 (n, $\gamma$ ), Mo-99 ( $\beta^-$ )
$^{129}\text{I}$	$1.17 \times 10^7$	$\beta$ , $\gamma$	Fission
$^{237}\text{Np}$	$2.14 \times 10^6$	$\alpha$ , $\beta$ , $\gamma$	U-238 (n, 2n), U-237 ( $\beta^-$ )
$^{238}\text{Pu}$	86.4	$\alpha$ , $\gamma$	Np-237 (n, $\gamma$ ), Np-238 ( $\beta^-$ ); daughter Cm-242
$^{239}\text{Pu}$	24,400	$\alpha$ , $\gamma$	U-238 (n, $\gamma$ ), U-239 ( $\beta^-$ ), Np-239 ( $\beta$ )
$^{240}\text{Pu}$	6,580	$\alpha$ , $\gamma$	Multiple n-capture
$^{241}\text{Pu}$	13.2	$\alpha$ , $\beta$ , $\gamma$	Multiple n-capture
$^{242}\text{Pu}$	$2.79 \times 10^5$	$\alpha$	Multiple n-capture; daughter Am-242
$^{241}\text{Am}$	458	$\alpha$ , $\gamma$	Daughter Pu-241
$^{243}\text{Am}$	7950	$\alpha$ , $\beta$ , $\gamma$	Multiple n-capture
$^{242}\text{Cm}$	162days	$\alpha$	Multiple n-capture
$^{243}\text{Cm}$	32	$\alpha$ , $\gamma$	Multiple n-capture
$^{244}\text{Cm}$	17.6	$\alpha$ , $\gamma$	Multiple n-capture

rate quantification of nuclides, the industry and regulators need data on actual 10 CFR Part 61 radionuclide concentrations in representative waste streams to verify the need for environmental concerns about these nuclides. It is also desirable to have a method for scaling the concentrations of those radionuclides that require complex analytical assay methods to the concentration of radionuclides that can be measured more easily. Since a portion of each sample from the earlier EPRI program was archived and documented as to source, plant and collection time, the NRC contracted with SAIC to analyze many of the samples for the relevant nuclides that had not been analyzed previously.

To assure that the EPRI samples have undergone negligible aging effects, SAIC acquired twenty new samples from similar nuclear power facility waste streams as used in the EPRI study. In addition to the analyses listed above, actinide and gamma-emitting nuclides were also analyzed in the new samples. The data from the new samples were compared with the data from the EPRI study samples to assure that the older sample results were consistent with the new sample data.

Following the generation of the assay data, SAIC was to apply statistical correlation methods to investigate the adequacy of specific scaling factors for use in implementing the 10 CFR Part 61 waste classification system. Statistical correlation methods could include the linear least square method or other appropriate computational techniques. Scaling factors were to be based on correlations with more easily measured nuclides such as  $^{60}\text{Co}$ ,  $^{137}\text{Cs}$ , and  $^{144}\text{Ce}$ .

The specific objectives in the NRC funded SAIC program were:

1. Survey the literature to determine effective analytic procedures, and formulate an efficient analytical program utilizing established and new procedures, as appropriate, and verify these procedures using the methods of sample spiking, sample analysis replication and round-robin sample splitting.



2. Implement quality control and quality assurance programs for the analytical work that meet the requirements of 10 CFR Part 50, Appendix B.
3. Reassay eight samples for uranium, transuranic and gamma-ray-emitting nuclides to determine whether the previously analyzed samples are valid for this program.
4. Analyze, using the verified techniques, 125 archived radwaste samples for the hard-to-analyze alpha, beta and x-ray emitting nuclides of concern for 10 CFR Part 61 compliance. The nuclides are  $^3\text{H}$ ,  $^{14}\text{C}$ ,  $^{59}\text{Ni}$ ,  $^{63}\text{Ni}$ ,  $^{90}\text{Sr}$ ,  $^{94}\text{Nb}$ ,  $^{99}\text{Tc}$ ,  $^{129}\text{I}$ ,  $^{241}\text{Pu}$ , and the other TRU nuclides.
5. Analyze twenty new samples obtained with the NRC's participation from the Vermont and Maine Yankee plants for all the gamma-ray emitting nuclides as well as the hard-to-analyze nuclides. The purpose was to test the sampling methodology proposed in the NRC Branch Technical Position and to compare nuclide concentrations and concentration ratios in the new samples with those in the archived samples.
6. Study observed nuclide ratios with the hope that empirical scaling factors would be found that could predict reliably the concentrations of the hard-to-analyze nuclides from measured concentrations of the more easily analyzed gamma-ray emitting nuclides. Generic, plant-specific and waste-specific scaling factors would be investigated.
7. Study the range of observed concentrations for the alpha, beta and x-ray emitting nuclides mentioned above and to analyze five samples for the nuclide  $^{135}\text{Cs}$  to verify that the concentrations of this isotope, relative to  $^{137}\text{Cs}$ , are similar to calculational predictions.

8. Recommend, based upon the conclusions from the study, sampling and analytical programs for assuring compliance with rules for shipment and burial of low-level radwaste.

As pointed out in the EPRI study,<sup>1</sup> sample representativeness is a serious problem in radwaste sampling. The sampling program of that study was designed to reduce this problem through the time-averaging inherent in a forty-two month study. Hence, the samples for the present program are considered to be statistically representative.

## 2.0 ANALYTICAL PROGRAM

### 2.1 Radioanalytical Analyses

2.1.1 Sample Selection. The criteria for choosing samples were:

1. Extensive analyses were performed under the EPRI program. These analyses included the actinides, the gamma-ray-emitting nuclides, and, in some cases, strontium.
2. Enough of the sample remained and its condition was satisfactory so that accurate analyses could be performed.
3. The origin of the sample was definite, and the sample was of a principal source of waste.

Table 2-1 lists the samples and the nuclides analyzed for under the NRC program. Not all samples were analyzed for all of the nuclides listed in the table. Filter samples were generally not analyzed for  $^3\text{H}$  or for  $^{14}\text{C}$  since these two nuclides were not expected in the samples. Where analyses of  $^{90}\text{Sr}$  and TRU had been done previously on the samples, we did not repeat them. Often the samples showed very low activity levels, particularly of  $^{137}\text{Cs}$ . Analyses for  $^{129}\text{I}$  were not done since the expected activities would be orders of magnitude below the sensitivity limits. Because of past experience in uranium analyses, SAIC analyzed only a few samples for this nuclide to re-affirm that uranium to plutonium concentration ratios were consistent and that uranium was not an important nuclide in low-level wastes. Finally, some samples had been analyzed previously for  $^{241}\text{Pu}$ ; these analyses were not repeated.

2.1.2 Procedure Development. Analyses performed by the SAIC Radioanalytical Laboratory included since 1973 the nuclides  $^3\text{H}$ ,  $^{60}\text{Co}$ ,  $^{90}\text{Sr}$ ,  $^{137}\text{Cs}$ ,  $^{144}\text{Ce}$ ,  $^{235}\text{U}$ ,  $^{238}\text{U}$ ,  $^{238}\text{Pu}$ ,  $^{239/40}\text{Pu}$ ,  $^{242}\text{Pu}$ ,  $^{242}\text{Cm}$ ,  $^{243/44}\text{Cm}$ , and  $^{241}\text{Am}$ . A comprehensive literature search was

TABLE 2-1

LISTING OF SAMPLES ANALYSED FOR THE STUDY THAT INCLUDES THE NUCLIDES FOR WHICH THEY WERE ANALYZED  
 Not All Samples Were Analyzed For All Nuclides. Section 2.1.1 describes the selection criteria.

Reactor Type	Plant	Sample Type	Sample Number	<sup>3</sup> H	<sup>14</sup> C	<sup>59</sup> Ni	<sup>63</sup> Ni	<sup>90</sup> Sr	<sup>94</sup> Nb	<sup>99</sup> Tc	<sup>129</sup> I	U	$\alpha$ TRU	<sup>241</sup> Pu
B	Oyster Creek	R2	1)7*	+	+	+	+	+	+	+	+			+
B	Monticello	FS1	10	+	+	+	+	+	+	+	+			+
B	Big Rock Pt	CF	16			+	+	+	+	+				+
B	Big Rock Pt	CF	17			+	+	+	+	+				+
P	Ginna	R1	35	+	+	+	+	+	+	+	+			+
B	Big Rock Pt	CF	37			+	+	+	+	+				+
B	Big Rock Pt	RR	38	+	+	+	+	+	+	+				+
P	Yankee Rowe	EB	40	+	+	+	+	+	+	+	+			+
P	Yankee Rowe	R1	43	+	+	+	+	+	+	+	+			+
B	Monticello	FS1	46	+	+	+	+	+	+	+	+			+
B	Monticello	FS2	1)48	+	+	+	+	+	+	+	+			+
B	Pilgrim	CF	50			+	+	+	+	+				+
B	Pilgrim	R1	51	+	+	+	+	+	+	+	+			+
B	Pilgrim	RR	54	+	+	+	+	+	+	+	+			+
B	Pilgrim	FSR	55	+	+	+	+	+	+	+	+			+
B	Monticello	CF	64			+	+	+	+	+				+
B	Monticello	FS1	65	+	+	+	+	+	+	+	+			+
B	Monticello	FS2	66	+	+	+	+	+	+	+	+			+
B	Oyster Creek	CF	68			+	+	+	+	+				+
B	Oyster Creek	FS1	69	+	+	+	+	+	+	+	+			+
B	Oyster Creek	EB	70	+	+	+	+	+	+	+	+			+
P	Calvert Cliffs-1	R1	71	+	+	+	+	+	+	+	+			+
P	Calvert Cliffs-1	R1	72	+	+	+	+	+	+	+	+			+
P	Calvert Cliffs-1	R1	73	+	+	+	+	+	+	+	+			+

TABLE 2-1 (continued)

Reactor Type	Plant	Sample Type	Sample Number	$^3\text{H}$	$^{14}\text{C}$	$^{59}\text{Ni}$	$^{63}\text{Ni}$	$^{90}\text{Sr}$	$^{94}\text{Nb}$	$^{99}\text{Tc}$	$^{129}\text{I}$	$\text{U}$	$\alpha\text{TRU}$	$^{241}\text{Pu}$
P	Ginna	CF	76			+	+	+	+	+				+
P	Ginna	EB	<sup>2)</sup> 77*	+	+	+	+	+	+	+	+	+	+	+
B	Monticello	CF	85			+	+	+	+	+		+	+	+
B	Monticello	FS2	86	+	+	+	+	+	+	+	+			+
B	Monticello	FS1	87	+	+	+	+	+	+	+	+			+
P	Calvert Cliffs-1	CF	89			+	+	+	+	+				+
B	Big Rock Pt	CF	90			+	+	+	+	+				+
B	Oyster Creek	EB	91	+	+	+	+	+	+	+	+			+
B	Oyster Creek	FS1	92	+	+	+	+	+	+	+	+			+
B	Oyster Creek	CF	94			+	+	+	+	+				+
P	Yankee Rowe	EB	95	+	+	+	+	+	+	+	+			+
B	Monticello	CF	99			+	+	+	+	+				+
B	Monticello	FS1	100	+	+	+	+	+	+	+				+
B	Monticello	FS2	101	+	+	+	+	+	+	+				+
P	Ginna	CF	104			+	+	+	+	+				+
P	Ginna	CF	<sup>2)</sup> 105			+	+	+	+	+				+
P	Ginna	CF	110			+	+	+	+	+				+
P	Ginna	CF	111		+	+	+	+	+	+				+
B	La Crosse	R1	112	+	+	+	+	+	+	+	+			+
B	Oyster Creek	FS1	113	+	+	+	+	+	+	+	+			+
B	Oyster Creek	FS1	117	+	+	+	+	+	+	+	+			+
B	Oyster Creek	FS1	123	+	+	+	+	+	+	+	+			+
B	Oyster Creek	EB	124*	+	+	+	+	+	+	+	+		+	+
B	Monticello	FS1	126*	+	+	+	+	+	+	+	+		+	+
B	Monticello	FS2	127	+	+	+	+		+	+	+			+
B	Millstone-1	CF	140			+	+	+	+	+				+
B	Millstone-1	EB	141	+	+	+	+	+	+	+	+			+

TABLE 2-1 (continued)

Reactor Type	Plant	Sample Type	Sample Number	$^3\text{H}$	$^{14}\text{C}$	$^{59}\text{Ni}$	$^{63}\text{Ni}$	$^{90}\text{Sr}$	$^{94}\text{Nb}$	$^{99}\text{Tc}$	$^{129}\text{I}$	<u>U</u>	$\alpha\text{TRU}$	$^{241}\text{Pu}$
P	Pt Beach-2	CF	143		+	+	+	+	+	+	+			+
P	Pt Beach-1	CF	144			+	+	+	+	+			+	+
P	Yankee Rowe	EB	149	+	+	+	+	+	+	+	+			+
P	Yankee Rowe	CF	151		+	+	+	+	+	+				+
P	Oconee-2	CF	155			+	+	+	+	+				+
P	Oconee-1	CF	156		+	+	+	+	+	+				+
P	Oconee-2	FS2	158	+	+	+	+	+	+	+	+			+
P	Oconee-1	EB	159	+	+	+	+	+	+	+	+			+
P	Oconee-1	FS2	160	+	+	+	+	+	+	+	+			+
P	Oconee-2	FS2	161*	+	+	+	+	+	+	+	+			+
B	Browns Ferry-1	FS1	162	+	+	+	+		+	+	+			+
B	Browns Ferry-3	CF	164		+	+	+	+	+	+				+
II	B	Oyster Creek	FSR	171	+	+	+	+	+	+	+			+
B	Quad Cities-1	CF	172	+	+	+	+	+	+	+				+
B	Quad Cities-2	FS2	173*	+	+	+	+	+	+	+	+		+	+
B	Quad Cities-2	FS2	2) 175*	+	+	+	+	+	+	+	+		+	+
P	Pt Beach-1	CF	177			+	+	+	+	+				+
P	Pt Beach-2	CF	178		+	+	+	+	+	+				+
P	Pt Beach-2	R1	180	+	+	+	+	+	+	+	+			+
B	Monticello	FS1	183	+	+	+	+		+	+	+			+
B	Monticello	FS2	184	+	+	+	+		+	+	+			+
B	Quad Cities-1	FS1	185	+	+	+	+	+	+	+	+			+
B	Quad Cities-1	FS1	186	+	+	+	+	+	+	+	+			+
P	Zion-1	CF	189			+	+	+	+	+				+
P	Zion-1	R1	190	+	+	+	+	+	+	+	+			+

TABLE 2-1 (continued)

Reactor Type	Plant	Sample Type	Sample Number	$^3\text{H}$	$^{14}\text{C}$	$^{59}\text{Ni}$	$^{63}\text{Ni}$	$^{90}\text{Sr}$	$^{94}\text{Nb}$	$^{99}\text{Tc}$	$^{129}\text{I}$	$\text{U}$	$\alpha\text{TRU}$	$^{241}\text{Pu}$
P	Zion-2	R1	193	+	+	+	+	+	+	+	+			+
P	Zion-2	EB	194	+	+	+	+		+	+	+			+
P	Ginna	RR	2) 198*	+	+	+	+	+	+	+	+		+	+
P	Ginna	R2	202	+	+	+	+		+	+	+			+
P	Yankee Rowe	EB	1) 205	+	+	+	+		+	+	+		+	+
P	Yankee Rowe	CF	208			+	+	+	+	+				+
B	Monticello	CF	209			+	+	+	+	+	+			+
P	Surry	CR2	212	+	+	+	+	+	+	+				+
P	Oconee-3	CF	213			+	+	+	+	+				+
P	Oconee-1	CF	214			+	+	+	+	+				+
P	Oconee-2	CF	216			+	+	+	+	+				+
P	Oconee-1	FS2	217	+	+	+	+		+	+				+
P	Oconee-1	EB	219	+	+	+	+		+	+	+			+
P	Oconee-3	FS2	221	+	+	+	+		+	+	+			+
P	Oconee-1	FS2	223	+	+	+	+		+	+	+			+
B	Browns Ferry-1	FS2	225	+	+	+	+		+	+	+			+
B	Browns Ferry-1	CF	227			+	+	+	+	+				+
B	Browns Ferry-3	CF	228			+	+	+	+	+				+
B	Browns Ferry-2	CF	1) 229			+	+	+	+	+				+
P	Ginna	FS2	234	+	+	+	+	+	+	+	+			+
P	Ginna	FS2	235	+	+	+	+	+	+	+	+			+
P	Ginna	CF	237		+	+	+	+	+	+				+
P	Ginna	CF	238			+	+	+	+	+				+
B	Oyster Creek	R1	246	+	+	+	+		+	+	+			+
P	Pt Beach-1	R1	250	+	+	+	+	+	+	+	+			+
P	Pt Beach-1	EB	2) 253	+	+	+	+	+	+	+	+		+	+
P	Haddam Neck	CF	257	+	+	+	+	+	+	+				+
P	Haddam Neck	EB	258*	+	+	+	+	+	+	+	+			+

TABLE 2-1 (continued)

Reactor Type	Plant	Sample Type	Sample Number	$^3\text{H}$	$^{14}\text{C}$	$^{59}\text{Ni}$	$^{63}\text{Ni}$	$^{90}\text{Sr}$	$^{94}\text{Nb}$	$^{99}\text{Tc}$	$^{129}\text{I}$	$\text{U}$	$\alpha\text{TRU}$	$^{241}\text{Pu}$
P	Yankee Rowe	R1	262	+	+	+	+	+	+	+	+			+
B	Millstone-1	R1	264	+	+	+	+	+	+	+	+			+
B	Millstone-1	FS1	265	+	+	+	+	+	+	+	+			+
B	Millstone-1	EB	266	+	+	+	+		+	+	+			+
B	Monticello	FS2	269	+	+	+	+	+	+	+	+			+
B	Monticello	FS1	270	+	+	+	+	+	+	+	+			+
B	Monticello	CF	271		+	+	+	+	+	+				+
P	Oconee-2	FS2	287	+	+	+	+	+	+	+	+			+
B	Browns Ferry-1	FS2	297	+	+	+	+	+	+	+	+			+
P	Haddam Neck	CF	301	+	+	+	+	+	+	+				+
P	Haddam Neck	CF	304	+	+	+	+	+	+	+				+
P	Haddam Neck	R1	305	+	+	+	+	+	+	+	+			+
P	Yankee Rowe	CF	307			+	+	+	+	+				+
P	Yankee Rowe	R1	308	+	+	+	+	+	+	+	+			+
P	Yankee Rowe	FPF	310	+	+	+	+	+	+	+	+			+
B	Quad Cities	FS1	311	+	+	+	+	+	+	+	+			+
B	Browns Ferry-2	CF	313			+	+	+	+	+				+
B	Browns Ferry-3	CF	314			+	+	+	+	+				+
P	Oconee-2	FS2	316	+	+	+	+	+	+	+	+			+
P	Oconee-1	FS2	318	+	+	+	+	+	+	+	+			+
P	Oconee-1	R1	319	+	+	+	+	+	+	+	+			+
P	Oconee	EB	322	+	+	+	+	+	+	+	+			+
P	Oconee-2	CF	326			+	+	+	+	+				+
P	Pt Beach-1	CF	328			+	+	+	+	+				+
P	Pt Beach-2	CF	329		+	+	+	+	+	+				+
P	Pt Beach	EB	333	+	+	+	+	+	+	+	+			+
P	Pt Beach-1	R1	336	+	+	+	+	+	+	+	+			+



TABLE 2-1 (continued)

Reactor Type	Plant	Sample Type	Sample Number	$^3\text{H}$	$^{14}\text{C}$	$^{59}\text{Ni}$	$^{63}\text{Ni}$	$^{90}\text{Sr}$	$^{94}\text{Nb}$	$^{99}\text{Tc}$	$^{129}\text{I}$	$\text{U}$	$\alpha\text{TRU}$	$^{241}\text{Pu}$
B	Monticello	FS1	337	+	+	+	+	+	+	+	+			+
P	Yankee Rowe	EB	351	+	+	+	+	+	+	+	+			+
B	Browns Ferry-3	FS2	355	+	+	+	+	+	+	+	+			+
P	Oconee	EB	358	+	+	+	+	+	+	+	+			+
P	Oconee-2	CF	365			+	+	+	+	+				+
P	Pt Beach-1	CF	372			+	+	+	+	+				+
P	Pt Beach-2	CF	373			+	+	+	+	+				+
P	Haddam Neck	R1	374*	+	+	+	+	+	+	+	+			+
B	Quad Cities	FS1	379	+	+	+	+		+	+	+			+
B	Monticello	FS2	382	+	+	+	+	+	+	+	+			+
B	Monticello	FS1	383	+	+	+	+	+	+	+	+			+
P	Oconee-1	CF	385			+	+	+	+	+				+
P	Oconee-1	FS2	390	+	+	+	+	+	+	+				+
P	Oconee-3	FS2	391	+	+	+	+	+	+	+	+			+
P	Oconee-2	CF	392			+	+	+	+	+				+
P	Oconee-2	FS2	394	+	+	+	+	+	+	+	+			+
B	Oyster Creek	R1	9117	+	+	+	+		+	+	+			+
B	Oyster Creek	FS1	9119	+	+	+	+		+	+	+			+
P	Pt Beach-2	EB	9502	+	+	+	+		+	+	+			+
P	Pt Beach-2	R1	9504	+	+	+	+		+	+	+			+
P	Pt Beach	R1	9507	+	+	+	+		+	+	+			+
P	Pt Beach	FPL	9509	+	+	+	+		+	+	+			+
P	Pt Beach	R1	9510	+	+	+	+		+	+	+			+
B	Oyster Creek	EB	9799	+	+	+	+		+	+	+			+
B	Oyster Creek	FS1	9800	+	+	+	+	+	+	+	+			+

TABLE 2-1 (continued)

Reactor Type	Plant	Sample Type	Sample Number	$^3\text{H}$	$^{14}\text{C}$	$^{59}\text{Ni}$	$^{63}\text{Ni}$	$^{90}\text{Sr}$	$^{94}\text{Nb}$	$^{99}\text{Tc}$	$^{129}\text{I}$	$\text{U}$	$\alpha\text{TRU}$	$^{241}\text{Pu}$	$\text{Y}$
B	Vermont Yankee	C	9978 <sup>a</sup>	+	+	+	+	+	+	+	+	+	+	+	+
B	Vermont Yankee	CF	9979 <sup>a</sup>	+	+	+	+	+	+	+	+	+	+	+	+
B	Vermont Yankee	SM	9980	+	+	+	+	+	+	+	+	+	+	+	+
B	Vermont Yankee	FS?	9981	+	+	+	+	+	+	+	+	+	+	+	+
B	Vermont Yankee	FS1	9982	+	+	+	+	+	+	+	+	+	+	+	+
P	Maine Yankee	DAW	10007	+	+	+	+	+	+	+	+	+	+	+	+
P	Maine Yankee	CF	10008 <sup>b</sup>	+	+	+	+	+	+	+	+	+	+	+	+
P	Maine Yankee	C	10009 <sup>b</sup>	+	+	+	+	+	+	+	+	+	+	+	+
P	Maine Yankee	EB	10010	+	+	+	+	+	+	+	+	+	+	+	+
P	Maine Yankee	SM	10011	+	+	+	+	+	+	+	+	+	+	+	+
P	Maine Yankee	C	10137 <sup>c</sup>	+	+	+	+	+	+	+	+	+	+	+	+
P	Maine Yankee	EB	10138	+	+	+	+	+	+	+	+	+	+	+	+
P	Maine Yankee	SM	10139	+	+	+	+	+	+	+	+	+	+	+	+
P	Maine Yankee	CR1	10140	+	+	+	+	+	+	+	+	+	+	+	+
P	Maine Yankee	CF	10141 <sup>c</sup>	+	+	+	+	+	+	+	+	+	+	+	+
B	Vermont Yankee	C	10185 <sup>d</sup>	+	+	+	+	+	+	+	+	+	+	+	+
B	Vermont Yankee	R2	10186	+	+	+	+	+	+	+	+	+	+	+	+
B	Vermont Yankee	CF	10187 <sup>d</sup>	+	+	+	+	+	+	+	+	+	+	+	+
B	Vermont Yankee	R1	10188	+	+	+	+	+	+	+	+	+	+	+	+
B	Vermont Yankee	DAW	10189	+	+	+	+	+	+	+	+	+	+	+	+

- a. Data combined to give one set of nuclide values for coolant. Data listed under sample number 9978.
- b. Data combined to give one set of nuclide values for coolant. Data listed under sample number 10008.
- c. Data combined to give one set of nuclide values for coolant. Data listed under sample number 10137.
- d. Data combined to give one set of nuclide values for coolant. Data listed under sample number 10185.

TABLE 2-1 (continued)

LEGEND:

+ = Analyzed  
\* = Samples for  $^{135}\text{Cs}$  Measurement  
1) = First Round-Robin  
2) = Second Round-Robin  
P = PWR  
B = BWR  
EB = Evaporator Bottom  
C = Coolant  
CF = Coolant Filter  
SM = Smear  
FS1 = Filter Sludge, Primary  
FS2 = Filter Sludge, Secondary  
FSR = Filter Sludge, Radwaste System  
FSP = Filter Sludge, Fuel Pool  
FPF = Fuel Pool Filter  
FPL = Fuel Pool Liquid  
DAW = Dry Active Waste  
CR1 = Crud, Primary  
CR2 = Crud, Secondary  
R1 = Resin, Primary  
R2 = Resin, Secondary  
RR = Resin, Radwaste System

conducted for potentially more accurate procedures for these nuclides and for  $^{14}\text{C}$ ,  $^{59}\text{Ni}$ ,  $^{63}\text{Ni}$ ,  $^{94}\text{Nb}$ ,  $^{99}\text{Tc}$ ,  $^{129}\text{I}$ , and  $^{241}\text{Pu}$ ; nuclides that had not previously been analyzed. After selecting the best available radiochemical and radiometric procedure for each nuclide, the procedures were given for peer review to the Environmental Laboratory of the Yankee Atomic Electric Company and the Department of Energy Radiological and Environmental Sciences Laboratory in Idaho Falls. Comments from these reviews were incorporated into the final procedures selected for the program.

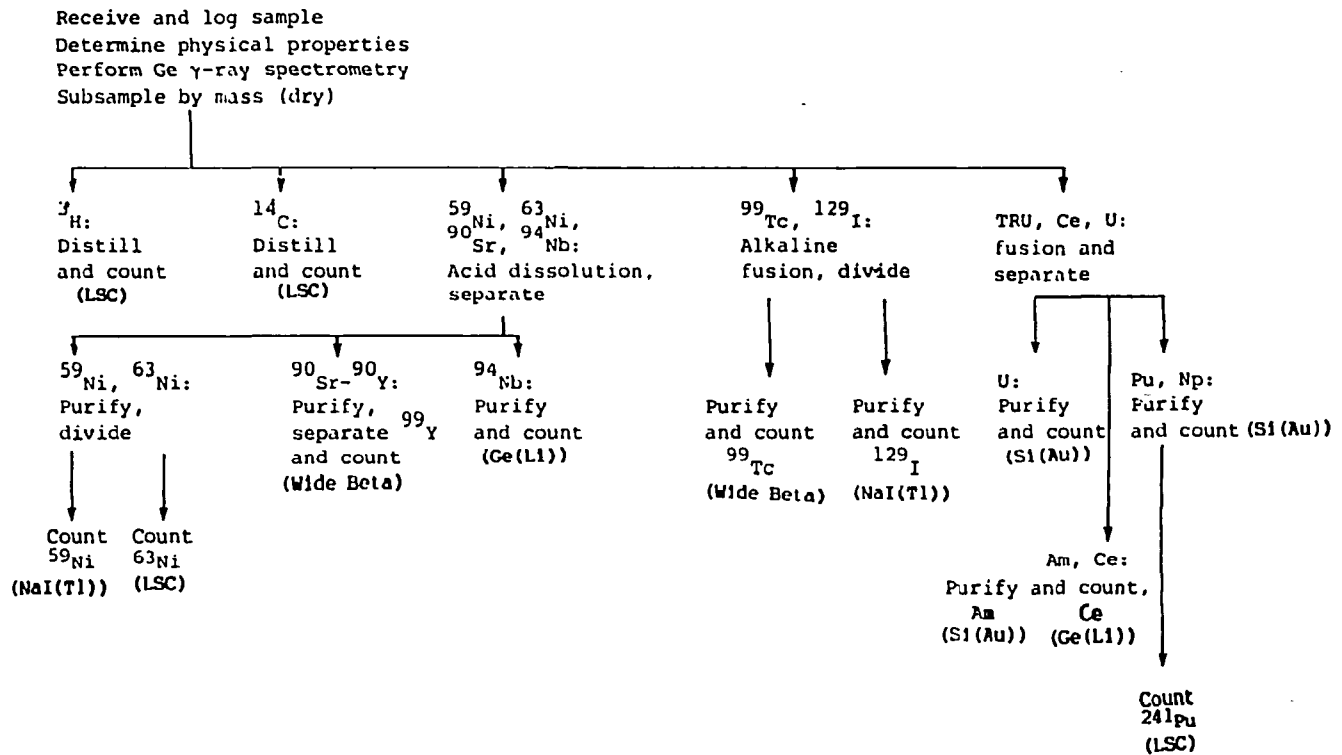
2.1.3 Sample Analysis. A schematic of the sample analysis procedure is in Figure 2-1. The nuclide concentrations listed in 10 CFR Part 61 are in terms of activity per unit volume. Radiochemical techniques usually give results in activity per unit weight. Analytical results of new samples were obtained in both units.

2.1.3.1 Sample Preparation. The steps in the procedure used for sample preparation were:

1. Slurry the sample, as received, into a container of standard size and known tare using a metered amount of water.
2. Let the solids settle; weigh and record the net weight of the solids (subtracting the weight of the liquid overburden) and the volume of solids (height) to obtain the sample wet weight and density.
3. Evaporate to dryness carefully and at low temperature to assure retention of volatile nuclides such as  $^{129}\text{I}$ .
4. Weigh the sample and measure the volume to obtain dry sample weight and density.
5. Perform gamma-ray analyses on the entire sample.
6. Take weighed aliquots of the dried sample for chemical analyses.
7. Archive part of the sample for possible reanalysis.

Figure 2-1

## Schematic of the Sample Chemical Analysis Program



Report results in  $\mu\text{Ci/g}$  dry weight and  $\mu\text{Ci/cm}^3$  wet weight

2.1.3.2 Chemical Analyses. Analytical techniques for chemical separations divide the samples into five fractions as shown in Figure 2-1. Each fraction is analyzed for different nuclides as shown in the figure. A description of the technique for each nuclide is given in Table 2-2.

2.1.3.3 Radioactivity Analyses Systems.

SAIC Gamma-Ray Spectrometer System.

SAIC analyzed new samples prepared for gamma-ray analysis with 4096-channel Ge(Li) gamma-ray spectrometers that are calibrated for detection efficiencies using a technique based on the use of NBS standards.<sup>2</sup> Each spectrometer has a structure for positioning samples precisely. Gamma-ray analyses are also done on some electrodeposited plutonium fractions after a suitable delay time, and on the separated trivalent-actinide fractions. SAIC counted the plutonium plates from the old EPRI program to measure the growth of  $^{241}\text{Am}$  and, thus, to calculate the amount of  $^{241}\text{Pu}$  present at the time of separation. The americium-curium solutions from new samples were counted after electro-deposition to measure the lanthanides present and cerium and europium isotopes were usually observed.

Gamma-ray data reduction is performed by a computer-based analyzer system. The results are subsequently evaluated by the operator. The spectrometer computer system automatically searches the acquired pulse-height spectrum for peaks, calculates the energy, the gross and net counts, and identifies the radionuclides giving rise to each peak. From this information, the concentration in  $\mu\text{Ci/unit weight}$  for each nuclide identified in the sample is determined and adjusted for radioactive decay since the sampling time. The system subtracts the background radiation contribution for the identified nuclides. Minimum detectable limits are calculated for those radionuclides not identified from the nuclide table.

TABLE 2-2

## DESCRIPTION OF RADIOCHEMICAL SEPARATION TECHNIQUES FOR THE NUCLIDES ANALYZED IN THE PROGRAM

Nuclide(s)	Description of Analytical Technique	Required Counting Instrumentation
$^3\text{H}$	Tritium is separated and purified from activation and fission product activities by distillation. An alkaline permanganate mother liquor is used to provide an oxidizing environment. The halogens and other elements are rendered non-volatile and remain in the mother liquor. The purified tritium is collected as the distillate. The tritium is prepared for counting in the liquid scintillation counter.	Liquid Scintillation Counter
$^{14}\text{C}$	Oxidizing distillation technique is employed, for liquid or solid samples, which converts greater than 97% of all carbon species to carbon dioxide. The $\text{CO}_2$ is absorbed in a liquid scintillation cocktail and analyzed for $^{14}\text{C}$ content.	Liquid Scintillation Counter
$^{55}\text{Fe}$	Solid samples such as sludge and resins are dissolved with mixed strong acids. $^{59}\text{Fe}$ in the sample is analyzed by gamma spectroscopy to determine the amount of tracer $^{59}\text{Fe}$ to add to samples. Aliquots of the dissolved solids or liquid samples are taken for analysis. $^{59}\text{Fe}$ is added for yield determination. Ferric hydroxide is precipitated by ammonium hydroxide; the supernate contains nickel. Further decontamination is accomplished by liquid-liquid extraction. Ferric hydroxide is precipitated, filtered, weighed, and counted using a thin-window $\text{NaI(Tl)}$ detector for X-rays ( $^{55}\text{Fe}$ ) and a Ge detector for $\gamma$ -rays ( $^{59}\text{Fe}$ ).	Thin-Window $\text{NaI(Tl)}$ and Ge Spectrometers

TABLE 2-2 (continued)

## DESCRIPTION OF RADIOCHEMICAL SEPARATION TECHNIQUES FOR THE NUCLIDES ANALYZED IN THE PROGRAM

Nuclide(s)	Description of Analytical Technique	Required Counting Instrumentation
<sup>59</sup> Ni, <sup>63</sup> Ni	Solid samples such as sludge and resins are dissolved with mixed strong acids. Aliquots of the dissolved solids or of liquid samples are taken for analysis. Nickel is separated from contaminating nuclides by precipitating Fe(OH) <sub>3</sub> with NH <sub>4</sub> OH. Nickel remains in solution as an ammonia complex. Further decontamination is accomplished by specific precipitation of Ni with dimethylglyoxine (Ni-DMG). The complex is dissolved and the organic destroyed with 1:1 HNO <sub>3</sub> :HClO <sub>4</sub> and heating to dryness. The salts are dissolved and volumetrically diluted to ten milliliters. Yield is determined by atomic absorption. The <sup>63</sup> Ni activity is determined by liquid scintillation counting; the <sup>59</sup> Ni activity is measured using a thin-window NaI(Tl) detector.	Thin-Window NaI(Tl) Spectrometer; Liquid Scintillation Counter
<sup>89</sup> Sr, <sup>90</sup> Sr	Solid samples such as sludge and resins are dissolved or leached with mixed strong acids. Aliquots of the dissolved solids or liquid samples are taken for analysis. A combination of precipitation and scavenging techniques are used for decontamination. Yttrium is separated and strontium is precipitated as the carbonate and counted. A two-week yttrium in-growth period is allowed; the carbonate is dissolved and the yttrium is separated, purified, and counted. The <sup>90</sup> Sr concentration is derived from <sup>90</sup> Y counting. <sup>89</sup> Sr concentration is calculated by subtracting <sup>90</sup> Sr and <sup>90</sup> Y contributions to the counting rate of the strontium carbonate. For old samples that contain no <sup>89</sup> Sr, the first count of the strontium activity ends the analysis.	Gas Proportional Counter



TABLE 2-2 (continued)

## DESCRIPTION OF RADIOCHEMICAL SEPARATION TECHNIQUES FOR THE NUCLIDES ANALYZED IN THE PROGRAM

Nuclide(s)	Description of Analytical Technique	Required Counting Instrumentation
<sup>94</sup> Nb	Solid samples such as sludge and resins are dissolved or leached with mixed strong acids. Aliquots of the dissolved solids or liquid samples are taken for analysis. Carrier is added and niobium is precipitated with NH <sub>4</sub> OH. Washing the precipitate with hot nitric acid provides some decontamination. Niobium is dissolved; cobalt and barium are used to scavenge contaminants. The solution containing Nb is further purified by elution from an anion exchange column. Niobium is precipitated as the oxide for gamma analysis using a Ge spectrometer.	Ge Spectrometer
<sup>99</sup> Tc	Rhenium is substituted for technetium as a carrier. Aliquots of liquid samples are used for analysis. Solid samples are dissolved by alkaline fusion to prevent volatilization of technetium. Subsequent solutions are treated with 8M HNO <sub>3</sub> and boiled to remove iodine. Cobalt is repeatedly used as a scavenging agent to remove radiocobalt and other transition metal radionuclides. The Re(Tc) is precipitated as a complex with tetraphenyl arsonium chloride and the <sup>99</sup> Tc activity determined by gas proportional counting.	Gas Proportional Counter
<sup>129</sup> I	Aliquots of liquid samples are used for analysis. Solid samples are dissolved by alkaline fusion to prevent volatilization of iodine. Subsequent solutions are stirred with anion exchange resin in batch form to remove iodine. The iodine is extracted from the resin and liquid-liquid extractions are performed. The purified iodine is precipitated as CuI and counted on a thin-window NaI(Tl) detector.	Thin Window NaI(Tl) Spectrometer

TABLE 2-2 (continued)

## DESCRIPTION OF RADIOCHEMICAL SEPARATION TECHNIQUES FOR THE NUCLIDES ANALYZED IN THE PROGRAM

<u>Nuclide(s)</u>	<u>Description of Analytical Technique</u>	<u>Required Counting Instrumentation</u>
α-Emitting Uranium and Transuranic Nuclides <sup>235</sup> U, <sup>238</sup> U, <sup>237</sup> Np <sup>238</sup> Pu, <sup>239</sup> Pu, <sup>240</sup> Pu, <sup>242</sup> Pu <sup>241</sup> Am, <sup>243</sup> Am, <sup>242</sup> Cm, <sup>244</sup> Cm <sup>144</sup> Ce	The sample is dissolved by fusion technique. The fusion cake is dissolved in HCl and the transuranic nuclides are coprecipitated with barium sulfate. The barium sulfate is dissolved and liquid-liquid extractions are performed separating U, Th; Pu, Np; and Am, Cm. Each fraction is electroplated and analyzed using a surface barrier alpha-particle detector. A gamma-ray analysis of the Am-Cm sample gives the <sup>144</sup> Ce in the sample. The nuclide <sup>141</sup> Ce is added to the initial sample as a tracer.	Alpha Spectrometer
<sup>241</sup> Pu	A fraction of the separated Pu from the U-TRU procedure (above) is counted in a liquid scintillation counter. <sup>241</sup> Pu is counted in the tritium window and alpha-emitting Pu is counted in a window above tritium. <sup>236</sup> Pu tracer yield is determined from the ratio of <sup>236</sup> Pu to total alpha/plutonium applied to the liquid scintillation alpha count.	Liquid Scintillation Counter with Pulse Height Analysis

### SAIC Liquid Scintillation Counting System.

The 10 CFR Part 61 radionuclides that emit low energy beta particles ( $^3\text{H}$ ,  $^{14}\text{C}$ ,  $^{63}\text{Ni}$ ,  $^{241}\text{Pu}$ ) are measured from liquid aliquots of the radiochemically processed samples and counted in a liquid scintillation counter. Two liquid scintillation counters are used in the SAIC laboratory and traceable standards are used for instrument calibration and determination of efficiency versus quench curves. The radionuclide concentrations per unit weight are determined and corrected for decay since the sampling time.

### SAIC Alpha Spectrometer System.

Analysis of alpha emitting radionuclides use silicon surface barrier pulse-height spectrometry. Six counting chambers are in use in the laboratory and each spectrometer has a pulser to aid in energy calibration. The pulses from each detector are fed into a multichannel pulse-height analyzer where counts per channel and the integral under the peaks are determined by the computer. The spectra of each sample are evaluated and deviations from normal spectra due to alpha straggling in a thick source are corrected and concentrations of the radionuclides in  $\mu\text{Ci/unit weight}$  determined and corrected for radioactive decay since the sampling time.

### SAIC Beta Counting System.

The beta particles of the radionuclides of  $^{89,90}\text{Sr}$  and  $^{99}\text{Tc}$  are easily measured with a gas-flow proportional counter having a thin window that allows the passage of the beta particles into the chamber. A guard detector is used in an anti-coincidence mode to correct the counting rate for background radiation. Samples mounted on plastic planchets are fed automatically from a cassette system and placed directly under the counting chamber. Observed counting rates are corrected for decay and used to calculate the concentration in microcuries per unit weight.

## SAIC NaI(Tl) Counting System.

Three NaI(Tl) spectrometers are employed as x-ray detectors. The 30 keV x-rays of  $^{129}\text{I}$  are detected with a 5-cm diameter x 0.6-cm detector having a thin (147.9 mg per  $\text{cm}^2$ ) aluminum window. Two 2.5-cm diameter x 0.2-cm detectors having thin (6.86 mg per  $\text{cm}^2$ ) beryllium windows and fitted with sample holders to position the samples are used for detecting the 5.9- and 6.9-keV x-rays of  $^{55}\text{Fe}$  and  $^{59}\text{Ni}$ . Calibration procedures use NBS traceable sources and computer coupled multichannel analyzers collect and analyze the data. Background and Compton distribution corrections are made in the analyses and concentrations in microcuries per unit weight are calculated and corrected for decay since the sampling date.

### 2.1.4 Nuclide Sensitivities.

2.1.4.1 Inherent Sensitivities. The equation used to calculate analytical sensitivities is based on the lower limit of detection (LLD) for a particular instrument, procedure and size of sample analyzed. The expression is:

$$\text{LLD} = \frac{4.66 S_b}{E \cdot V \cdot 2.22 \times 10^6 \cdot Y \cdot \exp(-\lambda t)}$$

where:

LLD is the "a priori" lower limit of detection; i.e., the smallest concentration of radioactive material in a sample that will yield a net count above background that will be detected with 95% probability, with 5% probability of falsely concluding that a blank observation represents a "real" signal.

$S_b$  = standard deviation of the background counting rate or of the counting rate of a blank sample as appropriate (as counts per minute),

E = counting efficiency (as counts per disintegration),

V = sample size (in units of mass or volume),

$2.22 \times 10^6$  = number of nuclear transformations per minute per microcurie,  
 $Y$  = fractional radiochemical yield (when applicable),  
 $\lambda$  = radioactive decay constant for the particular radionuclide  
 and  
 $\Delta t$  = elapsed time between midpoint of sample collection time and  
 count time.

This equation is from the Environmental Measurements Laboratory, New York City,<sup>3</sup> and is widely used. Analytical sensitivities are listed in Table 2-3. They are based upon assumptions of sample size, listed in the table, and of sample specificity (i.e., little contaminant activity).

2.1.4.2 Practical Sensitivities. The limits in Table 2-3 are limits based upon assumptions regarding interferences in the analyses and upon certain counting times and sample sizes. In practice, the achievable limits are sometimes less than those in that table. A ten-gram sample is often impractical to handle from the standpoint of radiation and cannot often yield a thin, low-mass end-product for radioactive counting, needed for low-energy beta, x-ray or alpha analyses. Table 2-4 gives the ranges of sensitivities actually achieved in the SAIC analyses. The values are from the data listed in Appendix A for the radwaste samples. Reactor coolant, fuel pool water or other liquid samples were not considered in the ranges since they are not samples of waste. The higher end of the range was from the higher activity samples (Class "A" and "B") whereas the lower values are from the very low activity samples where large samples could be analyzed and there were few interferences. Also listed in Table 2-4 are the analytical sensitivities desired in the Branch Technical Position (BTP) (1% of the values in 10 CFR Part 61). A comparison of actual ranges in Table 2-4 with the intrinsic sensitivities in Table 2-3 shows some substantial differences, particularly for the high end of the ranges. Comparison of the two columns in Table 2-4 shows some problems in meeting the desires in the BTP. The problems are most prevalent for  $^{90}\text{Sr}$ ,  $^{94}\text{Nb}$  and  $^{129}\text{I}$  where the upper level of achievable limits of sensitivity is several times the desired sensitivity. Since the limits for burial of  $^{90}\text{Sr}$  increase substantially for Class "B" and "C" wastes and the upper part of the range is for these wastes, the difference between achieved and desired sensitivities is not

TABLE 2-3

## ANALYTICAL SENSITIVITIES FOR THE 10 CFR PART 61 NUCLIDES

<u>Nuclide</u>	<u>Sensitivity (<math>\mu\text{Ci/cc}</math>)</u>	<u>Sample Size Basis For Sensitivity*</u> (grams)
$^3\text{H}$	$1 \times 10^{-8}$	10.0
$^{14}\text{C}$	$2 \times 10^{-8}$	10.0
$^{55}\text{Fe}$	$1 \times 10^{-6}$	10.0
$^{54}\text{Mn}$ , $^{58}\text{Co}$ , $^{60}\text{Co}$ , and other gamma-ray emitting activation nuclides	$5 \times 10^{-6}$	10.0
$^{59}\text{Ni}$	$6 \times 10^{-4}$	10.0
$^{63}\text{Ni}$	$2 \times 10^{-5}$	10.0
$^{90}\text{Sr}$	$1 \times 10^{-8}$	10.0
$^{94}\text{Nb}$	$1 \times 10^{-7}$	10.0
$^{95}\text{Zr}$	$4 \times 10^{-5}$	10.0
$^{99}\text{Tc}$	$4 \times 10^{-6}$	10.0
$^{129}\text{I}$	$1 \times 10^{-7}$	10.0
$^{134}\text{Cs}$ , $^{137}\text{Cs}$ , and other gamma-ray emitting fission product nuclides	$4 \times 10^{-6}$	10.0
$^{144}\text{Ce}$	$8 \times 10^{-6}$	10.0
$^{235}\text{U}$	$4 \times 10^{-8}$	10.0
$^{238}\text{U}$	$4 \times 10^{-8}$	10.0
$^{237}\text{Np}$	$1 \times 10^{-9}$	10.0
$^{238}\text{Pu}$	$4 \times 10^{-8}$	10.0
$^{239}\text{Pu}$ , $^{240}\text{Pu}$	$4 \times 10^{-8}$	10.0
$^{241}\text{Pu}$	$8 \times 10^{-6}$	10.0
$^{241}\text{Am}$	$4 \times 10^{-8}$	10.0
$^{243}\text{Am}$	$4 \times 10^{-8}$	10.0
$^{242}\text{Cm}$	$4 \times 10^{-8}$	10.0
$^{243}\text{Cm}$ , $^{244}\text{Cm}$	$4 \times 10^{-8}$	10.0

\* Sensitivities easily improved by increasing sample size.  
Nominal sample sizes received by SAIC are 5-10 grams solid  
samples and 500-1000 grams liquid samples.

TABLE 2-4

## PRACTICAL ANALYTICAL SENSITIVITY RANGES FOR RADWASTE SAMPLES

<u>Nuclide</u>	<u>Achieved Sensitivity Range (<math>\mu\text{Ci/cc}</math>)</u>	<u>BTP Recommendations</u>
$^3\text{H}$	$0.2\text{--}3 \times 10^{-6}$	0.4
$^{14}\text{C}$	$0.5\text{--}8 \times 10^{-6}$	0.08
$^{55}\text{Fe}$	$1 \times 10^{-3}\text{--}3 \times 10^{-6}$	7
Gamma-Ray Emitting Corrosion Products	$0.5\text{--}1 \times 10^{-6}$	7
$^{59}\text{Ni}$	$0.1\text{--}2 \times 10^{-5}$	2.2
$^{63}\text{Ni}$	$0.05\text{--}7 \times 10^{-6}$	0.035
$^{90}\text{Sr}$	$0.02\text{--}1 \times 10^{-6}$	$4 \times 10^{-4}$
$^{94}\text{Nb}$	$0.04\text{--}3 \times 10^{-7}$	0.002
$^{99}\text{Tc}$	$0.01\text{--}8 \times 10^{-7}$	0.03
$^{129}\text{I}$	$0.02\text{--}3 \times 10^{-7}$	$8 \times 10^{-5}$
$^{137}\text{Cs}$	$0.5\text{--}1 \times 10^{-6}$	0.01
$^{144}\text{Ce}$	$4\text{--}2 \times 10^{-7}$	7
$^{235}\text{U}$	$4 \times 10^{-3}\text{--}4 \times 10^{-7}$	--
$^{238}\text{U}$	$2 \times 10^{-3}\text{--}8 \times 10^{-8}$	--
Alpha Emitting Transuranics	$2 \times 10^{-6}\text{--}4 \times 10^{-8}$	0.001
$^{241}\text{Pu}$	$2 \times 10^{-3}\text{--}3 \times 10^{-6}$	0.035

actually a problem. For the other three nuclides, all "Table 1 nuclides" the data indicate that the desired sensitivities cannot always be met. In fact, for some samples it is not easy to obtain the sensitivity required to establish the qualification on the basis of  $^{129}\text{I}$  concentrations, although the data in Appendix B (discussed in Section 3) indicate that wastes that would qualify for Class "C" waste on the basis of  $^{129}\text{I}$  would already be classified as "C" because of other nuclide concentrations, especially that of  $^{137}\text{Cs}$ . SAIC believes that required analytical sensitivities in the BTP should be raised to be commensurate with achievable sensitivities for  $^{94}\text{Nb}$  and  $^{129}\text{I}$ .

## 2.2 Analytical Verification

The SAIC Laboratory operates under a Quality Assurance Program that conforms to 10 CFR Part 50, Appendix B. The data quality control/quality assurance program has numerous data checks between sample receipt and final data report. The lab is frequently audited by utility Quality Assurance departments, and has always been designated as an approved supplier of radionuclide analyses. The majority of calculations are accomplished by the lab computer. Raw data being fed into the computer are checked by both the entering chemist and a second lab person. Calculated results from the computer are checked by the radiochemistry supervisor, using lab worksheets and raw spectra as a guide. Based on the supervisor's approval, a preliminary data report is generated by the computer. This report goes to the Quality Assurance technician who performs the final check to ensure that all calculations were performed correctly and that the isotopic ratios are reasonable. The final report is generated by the computer upon approval by the qualified Quality Assurance Manager. A schematic of this process is in Figure 2-2.

The Quality Assurance Program includes procedures and record keeping requirements for calibrating nuclide measurement instrumentation with NBS traceable standards, and for calibrating and standardizing radiochemical tracers and carriers. Only laboratory personnel certified to perform calibrations and standardizations perform these functions.





Qualification of procedures for radiochemical analysis was accomplished by testing with spiked blanks, spiked samples and analysis of an NBS blind standard of  $^{90}\text{Sr}$ . A number of sample analyses were also performed in duplicate to demonstrate the reproducibility of the procedures.

Table 2-5 shows the results of the analyses of simulated resin samples and one simulated sludge sample. Known amounts of the radionuclides of interest were added to clean resin and sand (the simulated sludge sample). Niobium-95 was used as a tracer in place of Niobium-94. The table gives the amount of activity added, the amount subsequently measured, and the ratio of measured to added. The table shows good agreement between the measured and added values. Table 2-5 also shows the result of the analysis of an NBS blind standard for  $^{90}\text{Sr}$ . The SAIC result is in excellent agreement with the NBS concentration.

A number of actual radwaste samples were spiked with known quantities of  $^{95}\text{Nb}$ ,  $^{99}\text{Tc}$ , and  $^{129}\text{I}$  added to the activities known to be present in the samples. Table 2-6 shows the results of the analyses of these samples. Niobium-95 was used as the radiochemical tracer for the niobium procedure verification. The ratio of measured to added activities is close to unity indicating analysis verification.

The data in Table 2-7 are from a series of replicate analyses of radwaste samples. The ratio of the two results is an indication of the reproducibility of the measurement techniques.

Table 2-8 shows the results of re-analyses of transuranic activities in samples previously analyzed in the EPRI program. The results demonstrate that the difference in the analytical results between the two sets in almost all cases is within 40 percent, which is consistent with the 20% accuracy found in the earlier program. The observed repeatability is well within the limits stated as a recommendation by the Branch Technical Position paper.

Table 2-9 summarizes the results of two round-robin analyses with the Environmental Analysis Laboratories (EAL). Samples selected for this sample splitting comparison were samples archived by SAIC from past analyses. The

TABLE 2-5  
SPIKED BLANK ANALYSIS RESULTS

<u>Nuclide</u>	<u>Sample</u>	<u>Amount Added (<math>\mu\text{Ci}</math>)</u>	<u>Amount Measured (<math>\mu\text{Ci}</math>)</u>	<u>Measured/Added</u>
$^3\text{H}$	Resin	$1.10 \times 10^{-3}$	$1.07 \times 10^{-3}$	0.97
$^3\text{H}$	Sand	$1.10 \times 10^{-3}$	$1.10 \times 10^{-3}$	1.00
$^{14}\text{C}$	Resin	$1.18 \times 10^{-1}$	$1.06 \times 10^{-1}$	0.90
$^{14}\text{C}$	Resin	$6.20 \times 10^{-1}$	$5.67 \times 10^{-1}$	0.91
$^{59}\text{Ni}$	Resin	$2.16 \times 10^{-1}$	$2.54 \times 10^{-1}$	1.18
$^{59}\text{Ni}$	Resin	$2.16 \times 10^{-3}$	$2.38 \times 10^{-3}$	1.10
$^{63}\text{Ni}$	Resin	$9.93 \times 10^{-3}$	$1.11 \times 10^{-2}$	1.12
$^{63}\text{Ni}$	Resin	$9.99 \times 10^{-3}$	$1.22 \times 10^{-2}$	1.22
$^{95}\text{Nb}$	Resin	$1.00 \times 10^{-2}$	$1.00 \times 10^{-2}$	1.00
$^{95}\text{Nb}$	Resin	$1.00 \times 10^{-2}$	$0.92 \times 10^{-2}$	1.09
$^{99}\text{Tc}$	Resin	$1.32 \times 10^{-2}$	$1.13 \times 10^{-2}$	0.86
$^{129}\text{I}$	Resin	$6.27 \times 10^{-3}$	$6.62 \times 10^{-3}$	1.06

NRS BLIND STANDARD ANALYSIS RESULTS

<u>Nuclide</u>	<u>Ampoule Number</u>	<u>NBS Value</u>	<u>SAIC Measurement</u>	<u>SAIC/NBS</u>
$^{90}\text{Sr}$	SR0Z4A	$1.107 \text{E}4 \text{ Bq/g}$	$1.10 \text{E}4 \text{ Bq/g}$	0.99

TABLE 2-6  
SPIKED SAMPLE ANALYSIS RESULTS

<u>Nuclide</u>	<u>Sample Number</u>	<u>Amount Added (<math>\mu\text{Ci}</math>)</u>	<u>Amount Measured (<math>\mu\text{Ci}</math>)</u>	<u>Ratio of Measured To Added Activities</u>
$^{99}\text{Tc}$	9476	0	$<8.4 \times 10^{-4}$	--
$^{99}\text{Tc}$	9476	$1.32 \times 10^{-2}$	$1.23 \times 10^{-2}$	0.93
$^{99}\text{Tc}$	T-80	0	$<7.4 \times 10^{-5}$	--
$^{99}\text{Tc}$	T-80	$1.32 \times 10^{-2}$	$1.30 \times 10^{-2}$	0.98
$^{95}\text{Nb}$	9687	$1.00 \times 10^{-2}$	$1.00 \times 10^{-2}$	1.00
$^{129}\text{I}$	T-175	0	$<2.3 \times 10^{-5}$	--
$^{129}\text{I}$	T-175	$6.27 \times 10^{-3}$	$6.67 \times 10^{-3}$	1.06

TABLE 2-7  
DUPLICATE SAMPLE ANALYSIS RESULTS

<u>Sample Nuclide</u>	<u>Number</u>	<u>Amount Measured First Analysis (<math>\mu\text{Ci}</math>)</u>	<u>Amount Measured Second Analysis (<math>\mu\text{Ci}</math>)</u>	<u>Ratio of Measurement Results</u>
$^3\text{H}$	10807	$1.10 \times 10^{-5}$	$1.16 \times 10^{-5}$	0.95
$^3\text{H}$	10290	$5.60 \times 10^{-2}$	$5.55 \times 10^{-2}$	1.01
$^{14}\text{C}$	10269	$2.68 \times 10^{-2}$	$2.62 \times 10^{-2}$	1.02
$^{63}\text{Ni}$	9921	$1.74 \times 10^{-1}$	$1.74 \times 10^{-1}$	1.00
$^{63}\text{Ni}$	9923	$9.20 \times 10^{-1}$	$1.10 \times 10^0$	0.84
$^{90}\text{Sr}$	T-198	$1.40 \times 10^{-3}$	$1.15 \times 10^{-3}$	1.22
$^{90}\text{Sr}$	10807	$2.19 \times 10^{-5}$	$1.88 \times 10^{-5}$	1.16
$^{89}\text{Sr}$	10807	$1.12 \times 10^{-4}$	$1.21 \times 10^{-4}$	0.93
$^{94}\text{Nb}$	T-89	$2.16 \times 10^{-8}$	$<2.78 \times 10^{-8}$	--
$^{94}\text{Nb}$	9502	$3.12 \times 10^{-4}$	$3.49 \times 10^{-4}$	0.89
$^{94}\text{Nb}$	10209	$3.00 \times 10^{-4}$	$3.17 \times 10^{-4}$	0.95
$^{94}\text{Nb}$	10237	$2.9 \times 10^{-4}$	$3.43 \times 10^{-4}$	0.85
$^{94}\text{Nb}$	10286	$1.10 \times 10^{-4}$	$1.02 \times 10^{-4}$	1.08
$^{94}\text{Nb}$	10303	$2.27 \times 10^{-7}$	$<7.4 \times 10^{-7}$	--
$^{94}\text{Nb}$	10306	$1.64 \times 10^{-6}$	$<1.2 \times 10^{-6}$	--
$^{94}\text{Nb}$	10571	$6.3 \times 10^{-4}$	$6.24 \times 10^{-4}$	1.01
$^{241}\text{Pu}$	10175	$1.49 \times 10^{-4}$	$1.00 \times 10^{-4}$	1.49
$^{241}\text{Pu}$	10408	$9.0 \times 10^{-4}$	$6.0 \times 10^{-4}$	1.50
$^{241}\text{Pu}$	10417	$7.0 \times 10^{-4}$	$2.7 \times 10^{-4}$	2.59

TABLE 2-8

RE-ANALYSIS OF TRANSURANICS IN ARCHIVED EPRI-PROGRAM SAMPLES  
Concentrations ( $\mu\text{Ci/cc}$ )

	<u><math>^{238}\text{Pu}</math></u>	<u><math>^{239,240}\text{Pu}</math></u>	<u><math>^{241}\text{Am}</math></u>	<u><math>^{242}\text{Cm}</math></u>	<u><math>^{244}\text{Cm}</math></u>
T-17	$2.2 \times 10^{-7} \pm 18\%$ $2.6 \times 10^{-7} \pm 20\%$	$7.0 \times 10^{-8} \pm 29\%$ $1.3 \times 10^{-7} \pm 25\%$	$<4.0 \times 10^{-10}$ $<5.1 \times 10^{-8}$	$<4.0 \times 10^{-10}$ $<2.2 \times 10^{-4}$	$<4.0 \times 10^{-10}$ $<5.5 \times 10^{-8}$
T-77	$1.89 \times 10^{-4} \pm 5\%$ $1.80 \times 10^{-4} \pm 11\%$	$9.25 \times 10^{-5} \pm 5\%$ $9.20 \times 10^{-5} \pm 16\%$	$6.87 \times 10^{-5} \pm 5\%$ $6.80 \times 10^{-5} \pm 18\%$	$2.09 \times 10^{-4} \pm 5\%$ $2.00 \times 10^{-4} \pm 5\%$	$3.14 \times 10^{-4} \pm 5\%$ $3.10 \times 10^{-4} \pm 5\%$
T-85	$1.22 \times 10^{-8} \pm 16\%$ $3.2 \times 10^{-9} \pm 20\%$	$7.80 \times 10^{-9} \pm 13\%$ $1.5 \times 10^{-9} \pm 25\%$	$3.0 \times 10^{-9} \pm 17\%$ $3.7 \times 10^{-9} \pm 15\%$	$9.2 \times 10^{-8} \pm 11\%$ $9.7 \times 10^{-8} \pm 28\%$	$5.2 \times 10^{-9} \pm 15\%$ $2.0 \times 10^{-9} \pm 20\%$
T-124	$1.91 \times 10^{-4} \pm 5\%$ $1.76 \times 10^{-4} \pm 5\%$	$9.33 \times 10^{-4} \pm 5\%$ $8.88 \times 10^{-4} \pm 5\%$	$4.77 \times 10^{-4} \pm 5\%$ $4.45 \times 10^{-4} \pm 5\%$	$8.69 \times 10^{-3} \pm 5\%$ $7.00 \times 10^{-3} \pm 5\%$	$2.44 \times 10^{-3} \pm 5\%$ $2.34 \times 10^{-3} \pm 5\%$
T-126	$1.80 \times 10^{-3} \pm 11\%$ $1.80 \times 10^{-3} \pm 10\%$	$9.40 \times 10^{-4} \pm 10\%$ $9.40 \times 10^{-4} \pm 10\%$	$4.20 \times 10^{-4} \pm 7\%$ $4.20 \times 10^{-4} \pm 8\%$	$1.90 \times 10^{-3} \pm 5\%$ $1.90 \times 10^{-3} \pm 10\%$	$7.4 \times 10^{-4} \pm 10\%$ $7.4 \times 10^{-4} \pm 8\%$
T-144	$4.8 \times 10^{-8} \pm 19\%$ $2.5 \times 10^{-8} \pm 10\%$	$6.1 \times 10^{-8} \pm 15\%$ $2.5 \times 10^{-8} \pm 15\%$	$1.8 \times 10^{-8} \pm 11\%$ $1.6 \times 10^{-8} \pm 10\%$	$9.3 \times 10^{-7} \pm 5\%$ $4.0 \times 10^{-6} \pm 25\%$	$4.9 \times 10^{-8} \pm 8\%$ $9.9 \times 10^{-9} \pm 20\%$
T-173	$2.09 \times 10^{-4} \pm 5\%$ $2.6 \times 10^{-4} \pm 5\%$	$9.18 \times 10^{-5} \pm 5\%$ $1.05 \times 10^{-4} \pm 5\%$	$3.75 \times 10^{-5} \pm 5\%$ $1.08 \times 10^{-4} \pm 20\%$	$2.07 \times 10^{-3} \pm 5\%$ $7.75 \times 10^{-3} \pm 28\%$	$1.81 \times 10^{-4} \pm 5\%$ $1.32 \times 10^{-4} \pm 20\%$
T-175	$1.37 \times 10^{-4} \pm 5\%$ $1.40 \times 10^{-4} \pm 10\%$	$6.39 \times 10^{-5} \pm 5\%$ $6.40 \times 10^{-5} \pm 15\%$	$3.52 \times 10^{-5} \pm 5\%$ $3.50 \times 10^{-5} \pm 10\%$	$2.90 \times 10^{-3} \pm 5\%$ $2.90 \times 10^{-3} \pm 15\%$	$1.48 \times 10^{-4} \pm 5\%$ $1.50 \times 10^{-4} \pm 15\%$
T-198	$6.58 \times 10^{-5} \pm 10\%$ $6.60 \times 10^{-5} \pm 5\%$	$7.18 \times 10^{-5} \pm 15\%$ $7.20 \times 10^{-5} \pm 5\%$	$1.48 \times 10^{-5} \pm 15\%$ $1.50 \times 10^{-5} \pm 5\%$	$1.03 \times 10^{-4} \pm 5\%$ $1.00 \times 10^{-4} \pm 15\%$	$1.48 \times 10^{-5} \pm 15\%$ $1.50 \times 10^{-5} \pm 10\%$
T-205	$3.27 \times 10^{-5} \pm 10\%$ $3.30 \times 10^{-5} \pm 5\%$	$3.65 \times 10^{-5} \pm 5\%$ $3.40 \times 10^{-5} \pm 5\%$	$9.15 \times 10^{-6} \pm 5\%$ $9.20 \times 10^{-6} \pm 5\%$	$1.50 \times 10^{-5} \pm 10\%$ $1.50 \times 10^{-5} \pm 5\%$	$5.40 \times 10^{-6} \pm 6\%$ $5.40 \times 10^{-6} \pm 5\%$
T-329	$<1.8 \times 10^{-7}$ $1.7 \times 10^{-9} \pm 16\%$	$<9.9 \times 10^{-8}$ $1.0 \times 10^{-9} \pm 21\%$	$5.1 \times 10^{-8} \pm 24\%$ $1.4 \times 10^{-9} \pm 17\%$	$2.3 \times 10^{-8} \pm 39\%$ $<2.5 \times 10^{-7}$	$<4.0 \times 10^{-9}$ $7.5 \times 10^{-10} \pm 24\%$

Note: First value listed is EPRI program value, second value is NRC program value.

TABLE 2-9

## SAIC/EAL ROUND-ROBIN ANALYSIS RESULT RATIOS

Nuclide	Concentration Ratios							
	T7	T48	T205	T229	T77	T175	T198	T253
<sup>3</sup> H	LLD		4.5±0.2		0.69±0.09	LLD	1.12±0.15	LLD
<sup>14</sup> C	LLD		LLD		0.27±0.05	LLD	0.54±0.07	0.037±0.005
<sup>59</sup> Ni	LLD	LLD	LLD	LLD	18±4	3.3±2.2	1.6±0.6	2.6±0.3
<sup>63</sup> Ni	0.12±0.02	0.21±0.03	2.4±0.6	5.7±0.8	1.3±0.3	0.73±0.09	0.60±0.08	1.8±0.3
<sup>90</sup> Sr	1.0±0.1	1.4±0.2	12±3	180±110	0.89±0.14	0.73±0.09	0.81±0.10	1.4±0.2
<sup>94</sup> Nb	LLD	LLD	LLD	LLD	1.6±1.0	LLD	LLD	12±4
<sup>99</sup> Tc	LLD	LLD	LLD		LLD	LLD	LLD	0.5±0.4
<sup>129</sup> I	LLD	LLD	LLD		LLD	LLD	LLD	LLD
<sup>238</sup> Pu					1.4±0.2	0.95±0.09	0.89±0.08	1.6±0.1
<sup>239,240</sup> Pu					1.3±0.5	0.97±0.09	0.87±0.08	1.7±0.1
<sup>241</sup> Pu					1.11±0.07	0.17±0.06	0.65±0.08	1.5±0.2
<sup>241</sup> Am					0.9±0.2	0.38±0.06	1.4±0.1	1.3±0.1
<sup>243,244</sup> Cm					0.53±0.06	0.95±0.09	0.84±0.09	1.1±0.2

purpose was both to ascertain analytical accuracies in the procedures used by the two laboratories to analyze the hard-to-analyze nuclides and to evaluate sample representativeness problems. The table shows a comparison between the two sets of results by way of ratios of the results. When one or neither of the laboratories showed positive results, the entry in the table is "lower limit of detection" (LLD). The first set of samples contained little activity and most of the entries are marked "LLD". Furthermore, no TRU comparisons were done on the first set of four samples. The second round-robin exercise used higher-activity samples and comparisons were done for TRU nuclides as well as for the other nuclides. The second set of analyses show much better comparisons for the  $^3\text{H}$ ,  $^{63}\text{Ni}$  and  $^{90}\text{Sr}$  activities than does the first set because of the higher activity levels where more accurate results were possible. The comparison shows a random variance of about 40% for the analyses of these three activities which is due both to analytical accuracies and sample inhomogeneities. The variance for  $^{59}\text{Ni}$  values is large and not random. The SAIC values are consistently higher than the EAL values. For samples T77 and T175, EAL reported that there was no  $^{59}\text{Ni}$  peak in the spectra but they reported values for the nuclides based on gross counting rates. If these two samples are not included in the comparisons, SAIC and EAL differ by about a factor of two in the  $^{59}\text{Ni}$  concentrations. The results for TRU nuclides show comparable variances that are similar to those from similar round robins on TRU nuclides in the EPRI program.<sup>1</sup> With the exception of one result, the comparison of the  $^{241}\text{Pu}$  results (the nuclide was not analyzed in previous round robins) shows variances similar to those for the other TRU nuclides. The comparisons for  $^{94}\text{Nb}$  and  $^{99}\text{Tc}$  are valid on only one sample and it is difficult to draw any conclusions although the comparison for  $^{99}\text{Tc}$  is within a factor of two. There were no valid comparisons for  $^{129}\text{I}$ . The round-robin results for these three nuclides serve to highlight the problems with the analysis of the activities. It would be helpful to the industry if the NRC could reduce the desired sensitivities for the analyses and re-access the environmental impact of them with the goal of increasing the allowed activity levels for the nuclides.

### 2.3 Analytical Results



Tables 2-10 and 2-11 are compilations for NRC PWR and BWR data, respectively, of the number of positive analysis results and the number of analyses performed. Values of nuclide concentrations, including minimum detectable limits for those analyses which did not give positive results, are listed in Appendix B. Very few samples showed positive results for  ${}^{94}\text{Nb}$ ,  ${}^{99}\text{Tc}$  or  ${}^{129}\text{I}$ . These nuclides are seldom present in measurable quantities.



SAIC dissolved five samples carrier-free and prepared the solutions for mass spectrometric analysis. Westinghouse Hanford Laboratory performed isotopic analyses for cesium via thermal emission mass spectrometry. The ratios of  ${}^{135}\text{Cs}$  to  ${}^{137}\text{Cs}$  atoms measured by Westinghouse Hanford are listed in Table 2-12. Calculated  ${}^{135}\text{Cs}$  to  ${}^{137}\text{Cs}$  atom ratios (from ORIGEN2) for the five samples are also shown in Table 2-12. Concentrations, as expected, are very low, on the order of  $10^{-5}$  microcuries per gram. These measurements demonstrate that  ${}^{135}\text{Cs}$  concentrations in radwaste are sufficiently small to be of little concern and that their values can be adequately predicted from  ${}^{137}\text{Cs}$  concentrations.



TABLE 2-10

## 10 CFR PART 61 NUCLIDE ANALYSES - PWR SAMPLES

(n/m) where m = number of analyses performed  
n = number of positive results

<u>Nuclide</u>	<u>Coolant</u>	<u>Resin</u>	<u>Evaporator Bottoms</u>	<u>Filter Sludge</u>	<u>Dry Active Waste</u>	<u>Smear</u>	<u>Fuel Pool</u>
<sup>3</sup> H	4/5	14/20	13/16	5/14	0/0	0/2	1/1
<sup>14</sup> C	13/13	17/20	13/16	12/14	1/1	2/2	1/1
<sup>59</sup> Ni	14/34	6/20	6/16	1/14	1/1	1/2	1/1
<sup>63</sup> Ni	32/34	19/20	15/16	5/14	1/1	2/2	1/1
<sup>90</sup> Sr	26/30	20/20	15/16	12/14	1/1	1/2	1/1
<sup>94</sup> Nb	1/34	0/10	1/16	0/14	0/1	0/2	0/0
<sup>99</sup> Tc	1/31	1/20	1/15	0/13	0/1	0/2	0/0
<sup>129</sup> I	0/7	0/20	0/16	1/14	0/1	0/2	0/0
<sup>241</sup> Pu	16/32	12/17	6/15	1/14	1/1	2/2	0/0

TABLE 2-11

## 10 CFR PART 61 NUCLIDE ANALYSES - BWR SAMPLES

(n/m) where m = number of analyses performed  
n = number of positive results

<u>Nuclide</u>	<u>Coolant</u>	<u>Resin</u>	<u>Evaporator Bottoms</u>	<u>Filter Sludge</u>	<u>Dry Active Waste</u>	<u>Smear</u>
<sup>3</sup> H	2/3	3/10	1/6	11/40	0/1	1/1
<sup>14</sup> C	9/10	6/10	4/6	23/40	0/1	1/1
<sup>59</sup> Ni	1/22	7/10	0/6	16/40	0/1	0/1
<sup>63</sup> Ni	19/22	10/10	5/6	40/40	0/1	1/1
<sup>90</sup> Sr	15/22	10/10	6/6	39/40	0/1	1/1
<sup>94</sup> Nb	0/22	0/10	0/6	1/39	0/1	0/1
<sup>99</sup> Tc	2/21	2/10	0/6	5/36	0/1	0/1
<sup>129</sup> I	0/6	2/10	0/6	4/40	0/1	0/1
<sup>241</sup> Pu	9/22	9/10	1/5	24/37	1/1	1/1

TABLE 2-12

MEASURED  $^{135}\text{Cs}$  CONCENTRATIONS

<u>Sample Number</u>	<u>Plant</u>	<u>Sample Type</u>	<u>Measured <math>^{135}\text{Cs}/^{137}\text{Cs}</math> Atom Ratio</u>	<u>Calculated (from ORIGEN2) <math>^{135}\text{Cs}/^{137}\text{Cs}</math> Atom Ratio</u>	<u>Measured <math>^{135}\text{Cs}</math> Activity <math>\mu\text{Ci}/\text{gram}</math></u>
T-77	Ginna	Evaporator Bottoms	0.44±0.01	0.25	1.98x10 <sup>-6</sup> ±1.2x10 <sup>-7</sup>
T-126	Monticello	Filter Sludge	0.42±0.01	0.25	3.78x10 <sup>-5</sup> ±1.9x10 <sup>-6</sup>
T-173	Quad Cities	Filter Sludge	0.43±0.01	0.25	2.95x10 <sup>-5</sup> ±1.5x10 <sup>-6</sup>
T-175	Quad Cities	Filter Sludge	0.43±0.01	0.25	5.57x10 <sup>-5</sup> ±2.8x10 <sup>-6</sup>
T-258	Connecticut Yankee	Evaporator Bottoms	0.43±0.01	0.25	2.31x10 <sup>-5</sup> ±1.6x10 <sup>-6</sup>

### 3.0 SCALING FACTOR STUDIES

The EPRI study<sup>1</sup> demonstrated that usable scaling factors can be found for some nuclides. The study showed a definite correlation between the alpha-emitting transuranic nuclides (TRU) and the nuclide <sup>144</sup>Ce. A physical basis for the correlation is that the transuranic elements in nuclear fuel and the fission product cerium are rare-earth species (TRU elements are in the actinide series and cerium is in the lanthanide series). At high temperatures both series of elements in the presence of oxygen will easily form highly water-insoluble oxides and should exhibit similar transport properties in reactor coolant and radwaste systems and, hence, should correlate well with each other. There should be similar correlations between insoluble corrosion products and between soluble fission products.

#### 3.1 Correlation Evaluation Techniques

An important goal of the study was to investigate the existence of scaling factors that relate the hard-to-analyze nuclides to the more easily measured gamma-ray emitting nuclides. The study used the large database, listed in Appendix A, that consists of all SAIC 10 CFR Part 61 analysis results. These data are not only from the samples done for the NRC, but also from SAIC's commercial customers. Sample identification in the base includes data on the origin of the sample so that correlations can be sought that are plant and waste stream specific. The format is described in the Appendix.

SAIC uses a weighted linear least-squares regression analysis for correlation searches. Because the concentrations of the variables in the fit range over as many as twelve orders of magnitude and because the individual measurements vary in precision, weighted fits are necessary. The fits give the coefficients of a linear equation that relates the concentrations of the two correlating nuclides, the value of the constant ("zero-intercept" value) and the slope (scaling factor) of the fit and their statistical uncertainties. A regression analysis of this type allows statistical tests on the fit to ascertain its validity. This is desirable

because even when two nuclide concentrations are independent and unrelated, a fit of a least-squares line to the data will result in a line with a finite slope. One of the evaluation criteria is to examine the value of the intercept since there are no physical reasons for correlations of nuclide pairs to have a finite value for the intercept. Hence, we evaluate the intercept value for a statistically significant finite value. Correlations where the value is larger than the two sigma uncertainty are rejected. A second evaluation is to test the validity of the correlation through a statistical test known as the F test, a form of the chi-squared test. This test evaluates the validity of the assumption of the relation between the two nuclides rather than the uncertainty on the scaling factor. The F test is a calculation of the ratio

$$F = \frac{\text{regression mean square (fit of line to the mean)}}{\text{residual mean square (fit of the line to the values)}}$$

For a statistically significant correlation, the square of the residuals about the line (the denominator) should be relatively small, giving a large value for F. The integral of the f-function from zero to the value of F gives the probability of a meaningful fit, the confidence level for the correlation. This is the confidence level that there is a correlation between these two nuclide concentrations and not the confidence of the scaling factor value. Appendix B gives the mathematical formalism for the weighted least-squares, F factor calculations, and the confidence level calculations.

### 3.2 Scaling Factor Analyses and Results

Nuclide pairings studied for possible use in scaling are categorized in three classes: corrosion or activation products, fission products, and transuranics (TRU). The formalism used in the investigations, discussed in the previous section and presented in more detail in Appendix B, calculates the correlating or scaling factor (the slope of the line fit to the data), the statistical two-sigma uncertainty on this value and the confidence level that the assumed linear correlation between the two nuclides is realistic.

The confidence level is only qualitatively related to the statistical uncertainty on the evaluated scaling factor. Its real function is to evaluate the choice of nuclides for the correlation and the functional relationship assumed to relate their concentrations. Appendix C contains the plots of the data and the fits to these data for all of the correlation calculations.

3.2.1 Corrosion Products. The nuclide,  $^{60}\text{Co}$ , is almost always present in waste, has a relatively long half life (5 years) and is easily analyzed. Hence, we looked to this nuclide for scaling factors with the hard-to-analyze, corrosion products. The results, summarized in Tables 3-1 through 3-4 and in Figure 3-1, are broken into categories of all BWR and all PWR samples in the SAIC database and all BWR and all PWR samples analyzed specifically in the NRC program. The latter categories emphasize "older" samples (1975-1979) whereas the total database includes a large sampling of waste over the period from 1983 and the first half of 1984. The twenty new samples collected from two Yankee plants for the NRC program contained only small amounts of activity and are not broken out specifically in the tables although they are included in those listings and in the scaling factor studies. The results show that there is no statistically significant difference between the new and the old samples (or between the Yankee samples and the other samples, although the uncertainty on the scaling factors from the Yankee data are large). Table 3-5 shows a comparison of the measured scaling factors for these nuclides to the ratio of 10 CFR Part 61 regulatory limits for Class "A" waste and irradiated components. Only Class "A" limits are listed because  $^{60}\text{Co}$  does not have limits for Class "B" or "C" waste. The table gives the regulatory limits in terms of ratios of the limit for that nuclide to the limit for  $^{60}\text{Co}$  (both values are thus ratios to  $^{60}\text{Co}$  activity concentrations); this value can be compared to the determined scaling factor and, if the scaling factor is the larger value, the scaled nuclide concentration controls the classification, otherwise  $^{60}\text{Co}$  controls the classification. For the activation products listed in Table 3-5, the results show that  $^{60}\text{Co}$  never controls classification of waste although it often dominates the radiation levels. Values calculated through activation analysis<sup>4</sup> are included in the table for comparison although the present

TABLE 3-1

LISTING OF SCALING FACTOR RESULTS FOR CORROSION PRODUCTS,  
ALL BWR

<u>Nuclides</u>	<u>Scaling Factor</u>	<u>2 Sigma Uncertainty</u>	<u>Confidence Level (%)</u>	<u>Number of Values</u>
$^{55}\text{Fe}/^{60}\text{Co}$	$5.61 \times 10^{-1}$	$9.64 \times 10^{-2}$	99	112
$^{59}\text{Ni}/^{60}\text{Co}$	$4.24 \times 10^{-3}$	$1.87 \times 10^{-3}$	97	62
$^{63}\text{Ni}/^{60}\text{Co}$	$5.70 \times 10^{-2}$	$1.21 \times 10^{-2}$	99	215
$^{94}\text{Nb}/^{60}\text{Co}^*$	$5.98 \times 10^{-4}$	$8.29 \times 10^{-4}$	NA	2
$^{14}\text{C}/^{60}\text{Co}$	$3.52 \times 10^{-2}$	$1.14 \times 10^{-2}$	99	109

\* The large uncertainty value is due to the averaging of two widely different ratios.

TABLE 3-2

LISTING OF SCALING FACTOR RESULTS FOR CORROSION PRODUCTS,  
ALL PWR

<u>Nuclides</u>	<u>Scaling Factor</u>	<u>2 Sigma Uncertainty</u>	<u>Confidence Level (%)</u>	<u>Number of Values</u>
$^{55}\text{Fe}/^{60}\text{Co}$	$5.38 \times 10^{-1}$	$8.69 \times 10^{-2}$	99	103
$^{59}\text{Ni}/^{60}\text{Co}$	$1.16 \times 10^{-2}$	$4.50 \times 10^{-3}$	97	111
$^{63}\text{Ni}/^{60}\text{Co}$	$3.27 \times 10^{-1}$	$2.99 \times 10^{-2}$	99	300
$^{94}\text{Nb}/^{60}\text{Co}$	$2.33 \times 10^{-4}$	$8.32 \times 10^{-5}$	99	25
$^{14}\text{C}/^{60}\text{Co}$	$6.51 \times 10^{-2}$	$1.78 \times 10^{-2}$	99	259

TABLE 3-3

LISTING OF SCALING FACTOR RESULTS FOR CORROSION PRODUCTS,  
ALL NRC/BWR

<u>Nuclides</u>	<u>Scaling Factor</u>	<u>Uncertainty</u>	<u>Confidence Level (%)</u>	<u>Number of Values</u>
$^{55}\text{Fe}/^{60}\text{Co}$	*	*	*	*
$^{59}\text{Ni}/^{60}\text{Co}$	$2.38 \times 10^{-3}$	$9.30 \times 10^{-4}$	99	24
$^{63}\text{Ni}/^{60}\text{Co}$	$4.97 \times 10^{-2}$	$1.49 \times 10^{-2}$	99	75
$^{94}\text{Nb}/^{60}\text{Co}$	$5.70 \times 10^{-6}$	$4.03 \times 10^{-7}$	**	1
$^{14}\text{C}/^{60}\text{Co}$	$1.62 \times 10^{-2}$	$5.22 \times 10^{-3}$	99	43

\*  $^{55}\text{Fe}$  was not analyzed in the NRC study.

\*\* Not applicable since there was insufficient samples for analysis.

TABLE 3-4

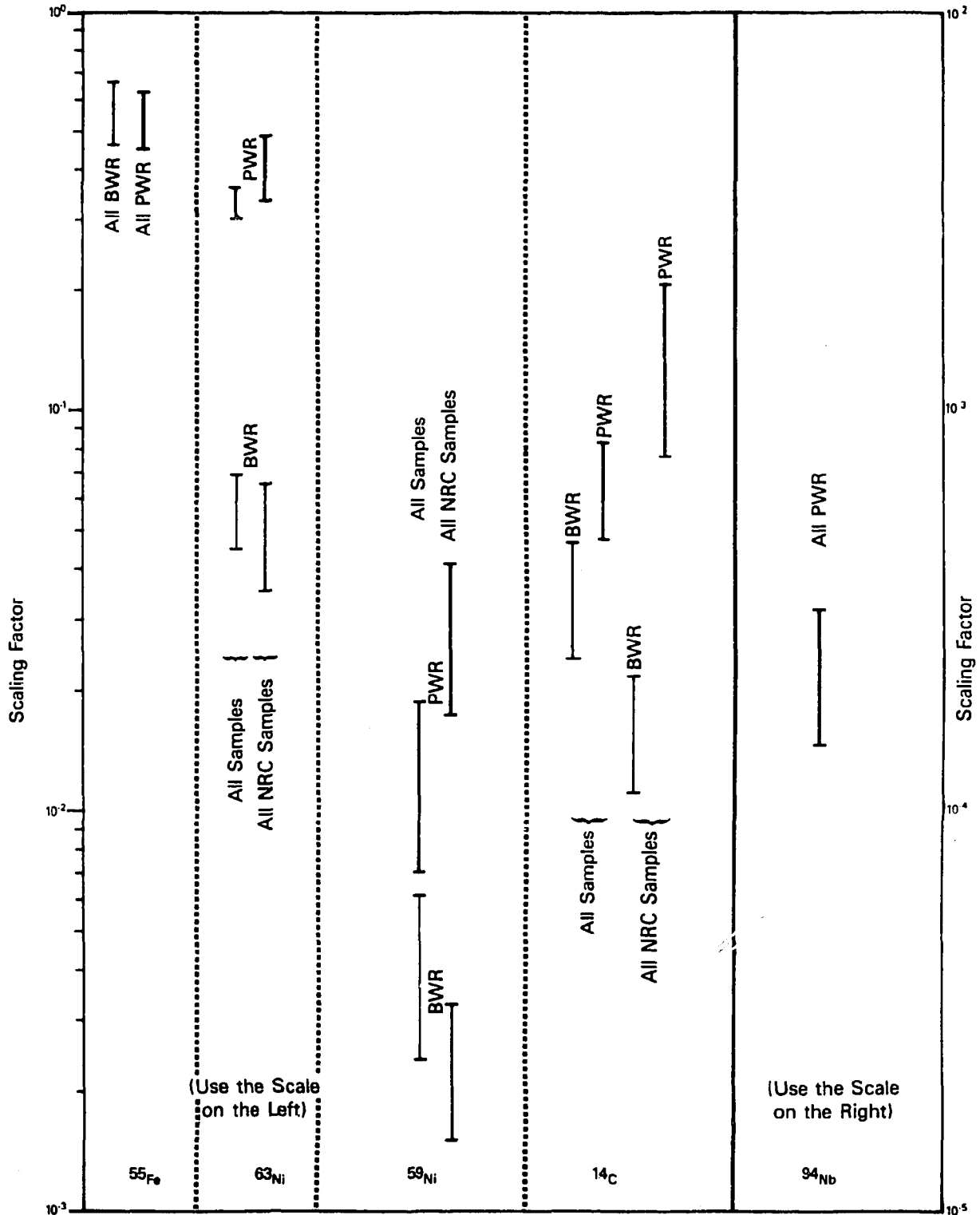
LISTING OF SCALING FACTOR RESULTS FOR CORROSION PRODUCTS,  
ALL NRC PWR SAMPLES

<u>Nuclides</u>	<u>Scaling Factor</u>	<u>Uncertainty</u>	<u>Confidence Level (%)</u>	<u>Number of Values</u>
$^{55}\text{Fe}/^{60}\text{Co}$	*	*	*	*
$^{59}\text{Ni}/^{60}\text{Co}$	$2.93 \times 10^{-2}$	$1.21 \times 10^{-2}$	99	32
$^{63}\text{Ni}/^{60}\text{Co}$	$4.09 \times 10^{-1}$	$7.60 \times 10^{-2}$	99	77
$^{94}\text{Nb}/^{60}\text{Co}$	$1.91 \times 10^{-4}$	$1.85 \times 10^{-4}$	**	2
$^{14}\text{C}/^{60}\text{Co}$	$1.41 \times 10^{-1}$	$6.40 \times 10^{-2}$	97	60

\*  $^{55}\text{Fe}$  was not analyzed in the NRC study.

\*\* Not applicable since there was insufficient samples for analysis.

**Figure 3-1**  
**Graphical Presentation of Scaling Factors for Corrosion Products.**  
 Shown are the uncertainty brackets for the scaling factors  
 for the nuclides  $^{55}\text{Fe}$ ,  $^{63}\text{Ni}$ ,  $^{59}\text{Ni}$ ,  $^{14}\text{C}$  and  $^{94}\text{Nb}$  referenced to  $^{60}\text{Co}$ .  
 The PWR valves are highlighted.





study does not include any samples of activated metals and SAIC has some evidence that the ratios in activated metals may not be the same as in other waste.

1.  $^{55}\text{Fe}$  with  $^{60}\text{Co}$

Although  $^{55}\text{Fe}$  is not explicitly listed in 10 CFR Part 61 and was not in the scope of this study, it is a major contributor to the category of "nuclides with half lives less than five years". A correlation with  $^{60}\text{Co}$  would be useful for this hard-to-measure nuclide. The two activities are both produced from thermal neutron capture in the steel components, both activities are expected to be colloidal in reactor systems and the correlation is expected to exist. Tables 3-1 and 3-2 show good correlations with industry generic scaling factors. This nuclide is not shown in the data from the NRC program, Tables 3-3 and 3-4, because the scope of the program did not include analysis for this activity and no analyses were done on those samples.

2.  $^{59}\text{Ni}$  and  $^{63}\text{Ni}$  with  $^{60}\text{Co}$

The elements nickel and cobalt are both present in commonly used steels in LWRs. The two isotopes of nickel and  $^{60}\text{Co}$  are single thermal neutron capture activation products with relatively long half lives; the two elements are relatively insoluble or colloidal in a chemically neutral aqueous medium. Since their production and transport properties are similar, they were expected to correlate well. Another possibility for a correlating nuclide,  $^{58}\text{Co}$ , produced through a reaction with fast neutrons on a stable isotope of nickel, might be in principle a better choice. In this study,  $^{60}\text{Co}$  gave a better correlation relation than  $^{58}\text{Co}$ , probably due to a combination of effects from the short half life and the production by neutrons of different energy of  $^{58}\text{Co}$ . The uncertainties shown in the tables for the scaling factor for  $^{63}\text{Ni}$  are about 10% and are somewhat larger for  $^{59}\text{Ni}$ , due probably to the lower measured concentrations (closer to the sensitivity

limits) for this nuclide. Scaling factors for BWR wastes are lower than those for PWR wastes because of the increased amounts of  $^{60}\text{Co}$  in BWR systems from the stellite materials used on the control blades. Generic scaling factors exist for these correlations that can be used for radwaste generated by LWRs (but not necessarily for irradiated components). Because  $^{63}\text{Ni}$  often controls the classification of low-level wastes, plants may wish to verify the scaling factor yearly.

3.  $^{94}\text{Nb}$  with  $^{60}\text{Co}$

The nuclide,  $^{94}\text{Nb}$ , is produced through thermal neutron capture from stable niobium, a minor constituent in some stainless steel and a trace element in carbon steels and nickel-based alloys. Since cobalt is also a component of steels, the two activities should track, at least for a specific component. If the concentration of niobium is relatively constant for all stainless components marked for disposal, a generic scaling factor may also exist for  $^{94}\text{Nb}$ . Measured  $^{94}\text{Nb}$  concentrations were very low when found and in most samples they were below the detectable limit. This is probably the principal conclusion from this study since the nuclide is involved in the classification only of components and not processed waste and SAIC measured no components in the program. A correlation does seem to exist, based on the limited amount of data. If the value holds for components, the data in Table 3-5 suggests that this nuclide, also, is important in classifying the component waste.

4.  $^{14}\text{C}$  with  $^{60}\text{Co}$

The nuclide  $^{14}\text{C}$  is produced through a fast neutron reaction on nitrogen in coolant and components and by activation of carbon in components. Most of the activity is released as a gas by the off-gas systems of BWRs or the waste-gas-decay system of PWRs. Some of the carbon activity seems to be in an insoluble form, perhaps as a carbonate, and tracks with the cobalt activity. The

data suggest that the correlation exists not only in waste from PWRs where the water chemistry may be slightly basic (and insoluble carbonates are known) but also in BWRs. Data in the tables suggest that generic scaling factors may apply.

TABLE 3-5

COMPARISON OF MEASURED SCALING FACTORS TO 10 CFR PART 61 LIMITS

A value of the scaling factor greater than the 10 CFR Part 61 limit ratio indicates that that nuclide will dominate the waste classification relative to <sup>60</sup>Co

Nuclide	Measured Scaling Factor		Ratio of 10 CFR Part 61 Limit for the Nuclide and for <sup>60</sup> Co		Predicted By NUREG CR-3474 For Activated SS304L Components (Typical)
	BWR	PWR	Radwaste Class A	Activated Metal Class A	
<sup>59</sup> Ni	0.0035	0.011	N.A.	0.0314	0.0013
<sup>63</sup> Ni	0.056	0.33	0.005	0.05	0.18
<sup>94</sup> Nb	0.006	0.00021	N.A.	0.0000286	2.0x10 <sup>-6</sup>
<sup>14</sup> C	0.031	0.062	0.0114	0.114	0.00023

NA = Not applicable because 10 CFR Part 61 only discusses this nuclide in regard to activated metals.

3.2.2 Fission Products. The soluble fission-product nuclide, <sup>137</sup>Cs, is also nearly always present in low-level waste, has a relatively long half life (31 years) and is easily analyzed. This activity is, therefore, a desirable candidate for scaling with the non gamma-emitting fission-product nuclides of Part 61, most of which are also soluble in reactor coolant systems. Tables 3-6 through 3-9 list the results of correlation analyses for the nuclides, <sup>90</sup>Sr, <sup>99</sup>Tc, and <sup>129</sup>I, correlated to <sup>137</sup>Cs for all BWR and PWR samples in the SAIC database and for all BWR and PWR samples analyzed for the NRC program, respectively. Since these results show much poorer evidence for the use of generic scaling factors than those for the corrosion

TABLE 3-6

LISTING OF SCALING FACTOR RESULTS FOR FISSION PRODUCTS,  
ALL BWR SAMPLES

<u>Nuclides</u>	<u>Scaling Factor</u>	<u>Uncertainty</u>	<u>Confidence Level (%)</u>	<u>Number of Values</u>
$^{90}\text{Sr}/^{137}\text{Cs}$	$6.08 \times 10^{-2}$	$1.64 \times 10^{-2}$	99	191
$^{99}\text{Tc}/^{137}\text{Cs}$	$1.50 \times 10^{-3}$	$8.77 \times 10^{-4}$	99	8
$^{129}\text{I}/^{137}\text{Cs}$	$5.30 \times 10^{-4*}$	$2.42 \times 10^{-4}$	97	16
	$5 \times 10^{-5**}$			

TABLE 3-7

LISTING OF SCALING FACTOR RESULTS FOR FISSION PRODUCTS,  
ALL PWR SAMPLES

<u>Nuclides</u>	<u>Scaling Factor</u>	<u>Uncertainty</u>	<u>Confidence Level (%)</u>	<u>Number of Values</u>
$^{90}\text{Sr}/^{137}\text{Cs}$	$2.73 \times 10^{-2}$	$7.56 \times 10^{-3}$	99	259
$^{99}\text{Tc}/^{137}\text{Cs}$	$3.44 \times 10^{-3}$	$3.14 \times 10^{-3}$	65	22
$^{129}\text{I}/^{137}\text{Cs}$	$1.68 \times 10^{-3*}$	$1.41 \times 10^{-3}$	65	22
	$8 \times 10^{-5**}$			

TABLE 3-8

LISTING OF SCALING FACTOR RESULTS FOR FISSION PRODUCTS,  
ALL NRC BWR SAMPLES

<u>Nuclides</u>	<u>Scaling Factor</u>	<u>Uncertainty</u>	<u>Confidence Level (%)</u>	<u>Number of Values</u>
$^{90}\text{Sr}/^{137}\text{Cs}$	$6.73 \times 10^{-2}$	$3.96 \times 10^{-2}$	83	64
$^{99}\text{Tc}/^{137}\text{Cs}$	$1.44 \times 10^{-3}$	$1.24 \times 10^{-3}$	62	7
$^{129}\text{I}/^{137}\text{Cs}$	$6.85 \times 10^{-5}$	$4.25 \times 10^{-5}$	89	7

\* This is the value obtained from all samples, including those with low concentrations that may be weighting the scaling factor to higher values.

\*\* Value obtained using only the scaling factors from the high concentration samples.

TABLE 3-9

LISTING OF SCALING FACTOR RESULTS FOR FISSION PRODUCTS,  
ALL NRC PWR SAMPLES

<u>Nuclides</u>	<u>Scaling Factor</u>	<u>Uncertainty</u>	<u>Confidence Level (%)</u>	<u>Number of Values</u>
$^{90}\text{Sr}/^{137}\text{Cs}$	$4.20 \times 10^{-2}$	$3.08 \times 10^{-2}$	66	62
$^{99}\text{Tc}/^{137}\text{Cs}$	$6.23 \times 10^{-3}$	$4.49 \times 10^{-3}$	NA	2
$^{129}\text{I}/^{137}\text{Cs}$	$6.81 \times 10^{-3}$	$1.63 \times 10^{-3}$	NA	1

N.A. = Not applicable to statistical analyses because of small number of results.

TABLE 3-10

LISTING OF SCALING FACTOR RESULTS FOR FISSION PRODUCTS,  
ALL PWR RESIN SAMPLES

<u>Nuclides</u>	<u>Scaling Factor</u>	<u>Uncertainty</u>	<u>Confidence Level (%)</u>	<u>Number of Values</u>
$^{90}\text{Sr}/^{137}\text{Cs}$	$2.13 \times 10^{-2}$	$1.16 \times 10^{-2}$	91	114
$^{99}\text{Tc}/^{137}\text{Cs}$	$1.08 \times 10^{-4}$	$8.78 \times 10^{-5}$	92	13
$^{129}\text{I}/^{137}\text{Cs}$	$7.74 \times 10^{-6}$	$3.01 \times 10^{-6}$	95	9

TABLE 3-11

LISTING OF SCALING FACTOR RESULTS FOR FISSION PRODUCTS,  
ALL BWR RESIN SAMPLES

<u>Nuclides</u>	<u>Scaling Factor</u>	<u>Uncertainty</u>	<u>Confidence Level (%)</u>	<u>Number of Values</u>
$^{90}\text{Sr}/^{137}\text{Cs}$	$6.79 \times 10^{-2}$	$3.36 \times 10^{-2}$	95	67
$^{99}\text{Tc}/^{137}\text{Cs}$	$7.29 \times 10^{-5}$	$1.06 \times 10^{-5}$	NA	2
$^{129}\text{I}/^{137}\text{Cs}$	$7.30 \times 10^{-4}$	$4.68 \times 10^{-4}$	86	8

N.A. = Not applicable to statistical analyses because of small number of results.

TABLE 3-12

LISTING OF SCALING FACTOR RESULTS FOR FISSION PRODUCTS,  
ALL BWR FILTER SLUDGE SAMPLES

<u>Nuclides</u>	<u>Scaling Factor</u>	<u>Uncertainty</u>	<u>Confidence Level (%)</u>	<u>Number of Values</u>
$^{90}\text{Sr}/^{137}\text{Cs}$	$4.81 \times 10^{-2}$	$2.01 \times 10^{-2}$	98	69
$^{99}\text{Tc}/^{137}\text{Cs}$	$2.19 \times 10^{-3}$	$1.88 \times 10^{-3}$	86	5
$^{129}\text{I}/^{137}\text{Cs}$	$2.26 \times 10^{-4}$	$1.15 \times 10^{-4}$	96	7

TABLE 3-13

LISTING OF SCALING FACTOR RESULTS FOR FISSION PRODUCTS,  
ALL PWR DRY ACTIVE WASTE SAMPLES

<u>Nuclides</u>	<u>Scaling Factor</u>	<u>Uncertainty</u>	<u>Confidence Level (%)</u>	<u>Number of Values</u>
$^{90}\text{Sr}/^{137}\text{Cs}$	$5.50 \times 10^{-2}$	$3.01 \times 10^{-2}$	65	20
$^{99}\text{Tc}/^{137}\text{Cs}$	NA	NA	NA	NA
$^{129}\text{I}/^{137}\text{Cs}$	$2.26 \times 10^{-3}$	$1.48 \times 10^{-4}$	NA	2

N.A. = Not applicable because there were either no values or two few values for statistical analyses.

TABLE 3-14

LISTING OF SCALING FACTOR RESULTS FOR FISSION PRODUCTS,  
ALL BWR DRY ACTIVE WASTE SAMPLES

<u>Nuclides</u>	<u>Scaling Factor</u>	<u>Uncertainty</u>	<u>Confidence Level (%)</u>	<u>Number of Values</u>
$^{90}\text{Sr}/^{137}\text{Cs}$	$1.16 \times 10^{-2}$	$4.93 \times 10^{-3}$	72	11
$^{99}\text{Tc}/^{137}\text{Cs}$	$3.07 \times 10^{-4}$	$1.18 \times 10^{-4}$	NA	1
$^{129}\text{I}/^{137}\text{Cs}$	NA	NA	NA	NA

N.A. = Not applicable because there were either no values or two few values for statistical analyses.

TABLE 3-15

LISTING OF SCALING FACTOR RESULTS FOR FISSION PRODUCTS,  
ALL PWR REACTOR COOLANT SAMPLES

<u>Nuclides</u>	<u>Scaling Factor</u>	<u>Uncertainty</u>	<u>Confidence Level (%)</u>	<u>Number of Values</u>
$^{90}\text{Sr}/^{137}\text{Cs}$	$1.18 \times 10^{-2}$	$8.82 \times 10^{-3}$	<20%	58
$^{99}\text{Tc}/^{137}\text{Cs}$	NA	NA	NA	NA
$^{129}\text{I}/^{137}\text{Cs}$	$1.77 \times 10^{-3}$	$1.17 \times 10^{-3}$	NA	4

N.A. = Not applicable because there were either no values or two few values for statistical analyses.

TABLE 3-16

PLANT SPECIFIC SCALING FACTOR FOR  $^{90}\text{Sr}$  REFERENCED TO  $^{137}\text{Cs}$

<u>Plant</u>	<u>Scaling Factor</u>	<u>Uncertainty</u>	<u>Confidence Level (%)</u>	<u>Number of Values</u>
Monticello	$3.01 \times 10^{-2}$	$1.12 \times 10^{-2}$	99	24
Oyster Creek	$1.63 \times 10^{-1}$	$6.80 \times 10^{-2}$	98	41
Vermont Yankee	$3.21 \times 10^{-3}$	$2.06 \times 10^{-3}$	92	4
Brunswick	$3.41 \times 10^{-2}$	$8.62 \times 10^{-3}$	99	36
Pilgrim	$3.76 \times 10^{-2}$	$2.19 \times 10^{-2}$	88	12
Big Rock Point	$1.92 \times 10^{-2}$	$1.26 \times 10^{-2}$	89	4
Maine Yankee	$3.81 \times 10^{-3}$	$1.76 \times 10^{-3}$	95	12
Farley	$6.96 \times 10^{-2}$	$4.41 \times 10^{-2}$	93	4
Ginna	$4.28 \times 10^{-3}$	$3.28 \times 10^{-3}$	82	30
Zion	$1.19 \times 10^{-2}$	$1.01 \times 10^{-2}$	66	44

GRAPHICAL PRESENTATION OF  $^{90}\text{Sr}$  TO  $^{137}\text{Cs}$  RATIOS  
FOR ALL CATEGORIES OF SAMPLES

Figure 3-2

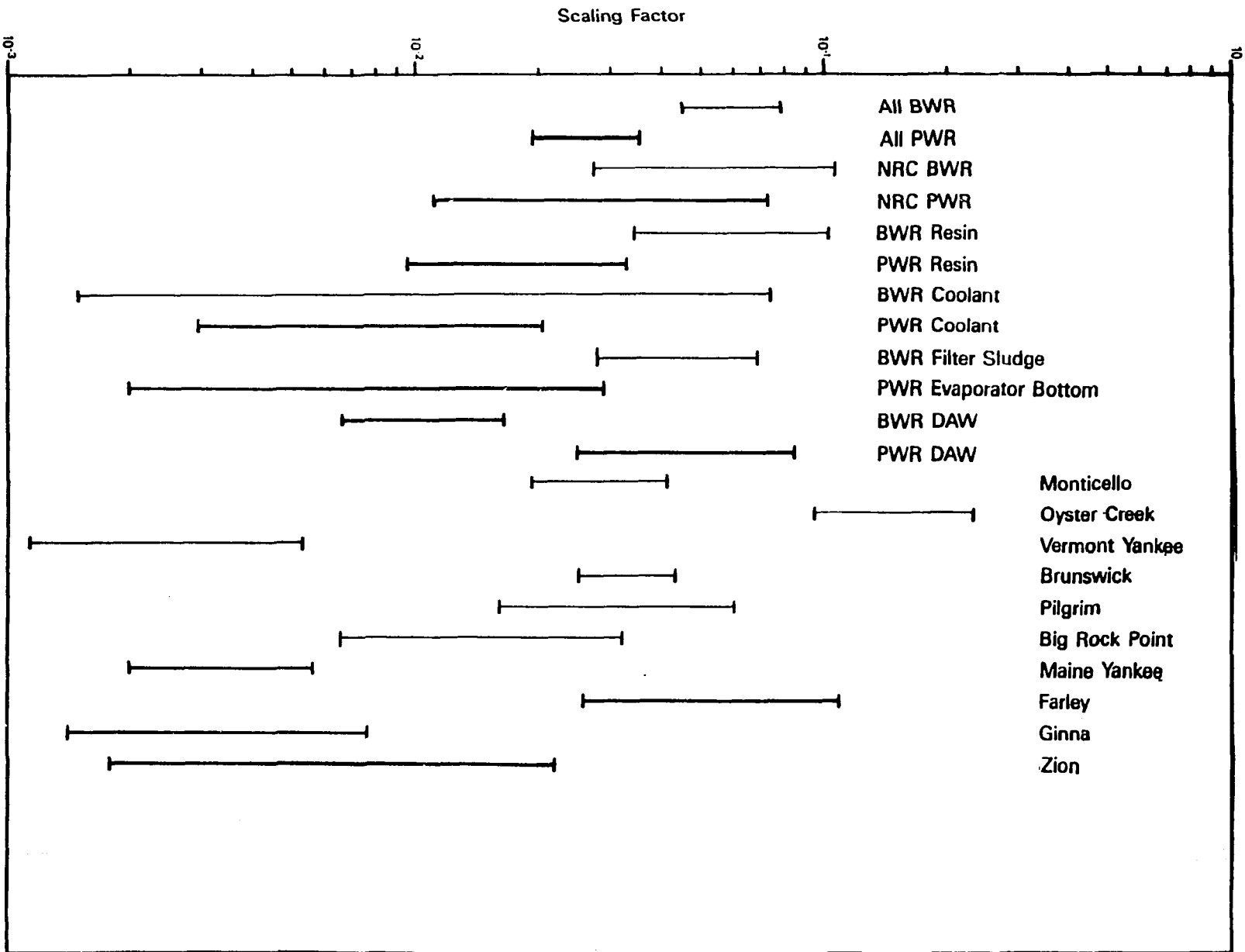
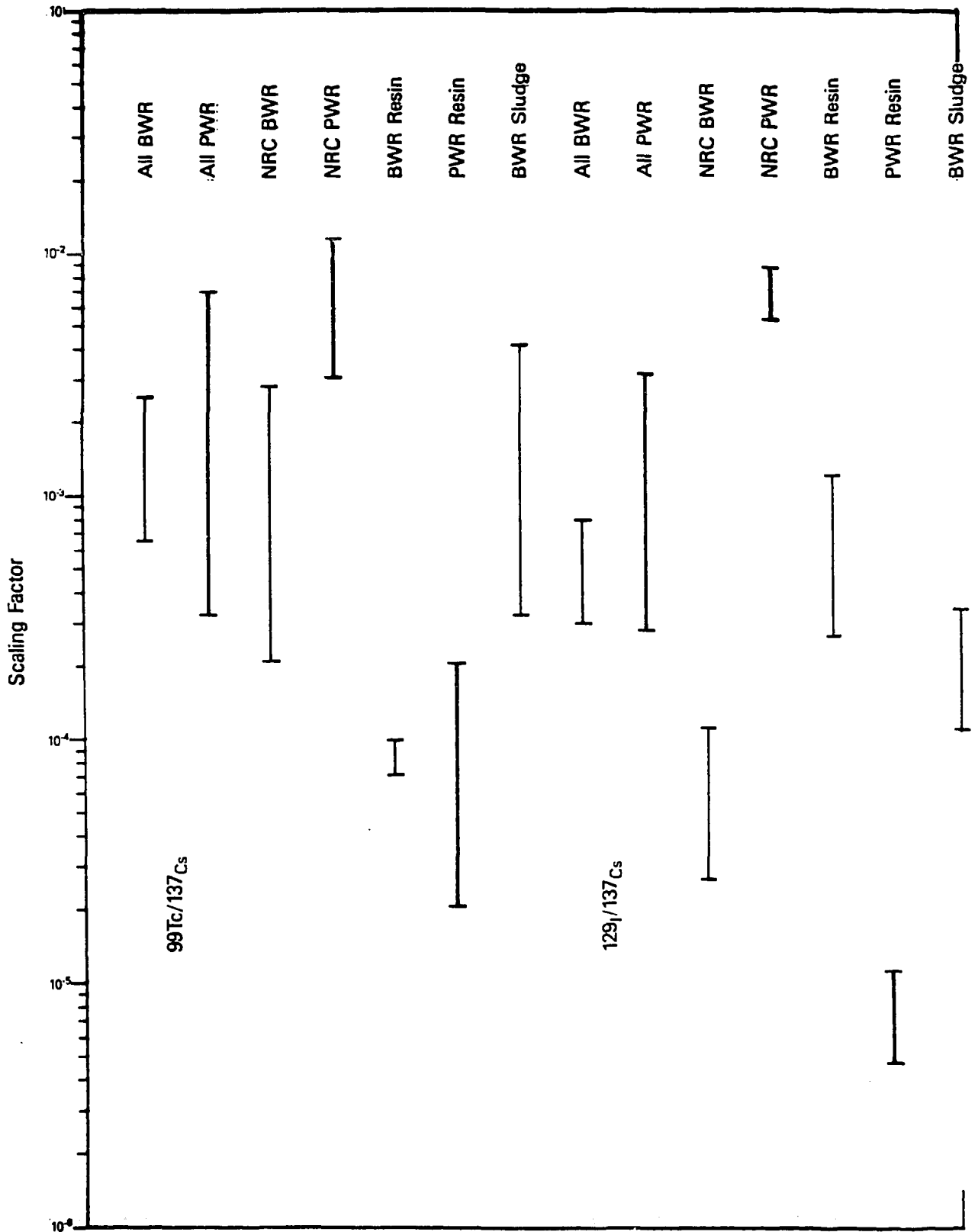




Figure 3-3

GRAPHICAL PRESENTATION OF  $^{99}\text{Tc}$  AND  $^{129}\text{I}$  SCALING FACTORS  
FOR ALL SAMPLE CATEGORIES



products, correlations were also studied on waste and plant specific basis. Tables 3-10 to 3-15 show the results of these studies for various waste categories and Table 3-16 shows the results for ten specific plants. The results are summarized in Figure 3-2 for  $^{90}\text{Sr}$ , and Figure 3-3 for  $^{99}\text{Tc}$  and  $^{129}\text{I}$ . Table 3-17 shows the comparison of the measured scaling factors for all BWR and PWR samples to the regulatory limit ratios for Class "A", "B", and "C" wastes. Again here, if the scaling factor is larger than that for the regulatory limit ratio, that nuclide, rather than  $^{137}\text{Cs}$ , can control the classification of the waste.

TABLE 3-17

COMPARISON OF FISSION-PRODUCT SCALING FACTORS TO  
10 CFR PART 61 REGULATORY LIMITS

A value for the scaling factor greater than the regulatory limit ratio indicates that the nuclide will dominate the classification over  $^{137}\text{Cs}$

Nuclide	Measured Scaling Factor		Ratio of 10 CFR Part 61 Limits for the Nuclide and for $^{137}\text{Cs}$		
	BWR	PWR	A	B	C
$^{90}\text{Sr}$	0.060	0.025	0.04	3.41	1.52
$^{99}\text{Tc}$	0.0011	0.0012	0.30	0.0068	0.00065
$^{129}\text{I}$	0.00050*	0.0017*	0.008	0.0018	1.74(-5)
	5(-5)**	8(-5)**			

\* Scaling factor from all samples.

\*\* Scaling factor from high-concentration samples.

1.  $^{90}\text{Sr}$  with  $^{137}\text{Cs}$

In most radwaste systems, strontium exists primarily in solution as ions rather than as particulates. In a PWR, with its sometimes slightly basic chemistry, some of the strontium may be in an

insoluble form such as a carbonate. Nonetheless, Cs is about the only available choice for scaling with the strontium in spite of the fact that in radwaste streams the two nuclides do not have the same collection efficiencies on filters or ion-exchange beds. Decontamination factors for cesium across resin beds are often low and variable compared to strontium, and any insoluble component to the strontium activity will collect more efficiently on filters than will the soluble cesium. Scaling factors for  $^{90}\text{Sr}$  are expected to be more reliable on a plant and waste stream specific basis. The tables do show large uncertainties in the values of the extracted scaling factors. The plots of the data in Appendix C show the larger scatter in the data, particularly in those data for all BWRs and PWRs. Scaling factors determined on waste and plant specific basis show less but still considerable scatter. In spite of the large sampling in this study, there was not enough data to do a meaningful statistical analysis of correlation on samples that were both plant and waste specific. Presented in graphic form (Figure 3-2) the data show a tendency for scaling factors from BWRs to be slightly higher than from PWRs. From the results presented in Table 3-17, it appears that  $^{90}\text{Sr}$  may be important from a classification standpoint, when compared to  $^{137}\text{Cs}$ , only for pushing the classification into Class "B". To be reliable predictors of activities,  $^{90}\text{Sr}$  scaling factors should probably be on a plant and waste stream specific basis. For waste products that may be Class "B" or "C",  $^{90}\text{Sr}$  scaling factors should be verified on a yearly basis.

2.  $^{99}\text{Tc}$  with  $^{137}\text{Cs}$

Little was known about the behavior of technetium in reactor systems prior to the introduction of 10 CFR Part 61, including the escape rate coefficient from the fuel. The isotope,  $^{99}\text{Tc}$ , appears to be soluble in coolant, however, removal by radwaste systems is not well understood.

Reliable scaling factors with  $^{137}\text{Cs}$  seem possible only on a plant and waste stream specific basis, as with  $^{90}\text{Sr}$ . The measured  $^{99}\text{Tc}$  activity concentrations are quite low in all of the samples; most samples contained less than detectable limits of activity. The data in Table 3-17 suggest that the nuclide may only be significant in establishing classification for Class "C" wastes although the nuclide is considered a "significant nuclide" and must be listed on shipping manifests. Hence, only waste streams that generate Class "C" wastes should be considered for frequent (yearly)  $^{99}\text{Tc}$  scaling factor verification.

3.  $^{129}\text{I}$  with  $^{137}\text{Cs}$

Iodine and cesium have similar transport properties in reactor systems and release mechanisms from reactor fuel but there are differences in the retention properties for the two elements in the filtration systems in the plants. Resin beds often show poor and variable decontamination factors for cesium compared to iodine; furthermore, cesium is the cationic form whereas iodine is usually in an anionic form in the reactor systems. Hence, resins and filters often treat these two elements differently and the correlation between  $^{129}\text{I}$  and  $^{137}\text{Cs}$  might be expected to have considerable scatter, which is shown in the data table. The data in Appendix C for the correlation show two groupings, one for the higher-concentration samples and one for the lower-concentration samples. The fit to the first group gives a considerably lower value of the scaling factor than the other. There are two possible reasons for the grouping: (1) concentration effects have been observed<sup>5</sup> for the efficiency of filters for  $^{137}\text{Cs}$  that would lower the decontamination factor at lower concentrations, and (2) interferences in counting  $^{129}\text{I}$  caused by background becomes significant at low  $^{129}\text{I}$  activities. SAIC believes that the phenomenon is real and that the lower value properly describes the scaling factor of higher-concentration samples. Using the lower values, Table 3-17 shows that  $^{129}\text{I}$  may only be a factor in

controlling the classification for Class "C" wastes. There are very few data, however, and most of the measured concentrations are near the detectable limits, hence, the nuclide may not be an important nuclide although it is also considered a "significant nuclide" and its concentration must be listed on the manifest. Verification of scaling factors for  $^{129}\text{I}$  should be done on a yearly basis only for Class "C" wastes.

#### 4. $^{135}\text{Cs}$ with $^{137}\text{Cs}$

The two isotopes of cesium are single neutron fission products and there should be a simple linear relation between their concentrations in waste. The measured concentrations of the two nuclides in the five samples confirmed both the relation and the scaling value calculated by the ORIGEN2 code.

3.2.3 Transuranic Nuclides. A previous study<sup>1</sup> showed a correlation of transuranic nuclides with the nuclide  $^{144}\text{Ce}$ . A portion of the present study is to verify that this correlation continues in newer samples with about the same scaling factor. The results from the current study are given in Tables 3-18 and 3-19 and in Figure 3-4. The small uncertainties on the resulting scaling factors demonstrate that generic scaling factors are applicable for TRU determinations from  $^{144}\text{Ce}$ . All TRU nuclides show a good correlation, including  $^{241}\text{Pu}$  (previously not analyzed). The new results from the much larger database show a small difference in the scaling factors from BWRs and PWRs not observed in the previous study (Figure 3-4). The new values are very close to the values reported previously. A serious problem in the use of the correlations, however, is the difficulty in measuring the concentration of  $^{144}\text{Ce}$  in waste samples. Without radiochemical separations,  $^{144}\text{Ce}$  is seldom seen by gamma-ray spectrometry in waste samples; the gamma-ray peaks are masked in the spectra by the Compton distribution from higher-energy gamma rays. Practical scaling is often done by operating plants using either  $^{60}\text{Co}$  or  $^{137}\text{Cs}$  on plant, waste stream and time period specific basis. Analysis of data for these correlations show scaling factors with uncertainties about the same as those for  $^{90}\text{Sr}$ ,  $^{99}\text{Tc}$  and  $^{129}\text{I}$  with  $^{137}\text{Cs}$ . Thus, it is necessary that plants determine and verify these scaling

Table 3-18

## MEASURED SCALING FACTORS FOR TRANSURANICS, ALL BWR SAMPLES

<u>Nuclides</u>	<u>Scaling Factor</u>	<u>Uncertainty</u>	<u>Confidence Level (%)</u>	<u>Number of Values</u>
$^{241}\text{Pu}/^{144}\text{Ce}$	$6.96 \times 10^{-1}$	$1.40 \times 10^{-1}$	99	74
$^{242}\text{Cm}/^{144}\text{Ce}$	$3.68 \times 10^{-2}$	$5.40 \times 10^{-3}$	99	134
$^{238}\text{Pu}/^{144}\text{Ce}$	$3.09 \times 10^{-2}$	$7.59 \times 10^{-3}$	99	144
$^{239,240}\text{Pu}/^{144}\text{Ce}$	$1.71 \times 10^{-2}$	$4.45 \times 10^{-3}$	99	145
$^{241}\text{Am}/^{144}\text{Ce}$	$2.23 \times 10^{-2}$	$7.56 \times 10^{-3}$	99	139
$^{243,244}\text{Cm}/^{144}\text{Ce}$	$2.24 \times 10^{-2}$	$6.01 \times 10^{-3}$	99	139

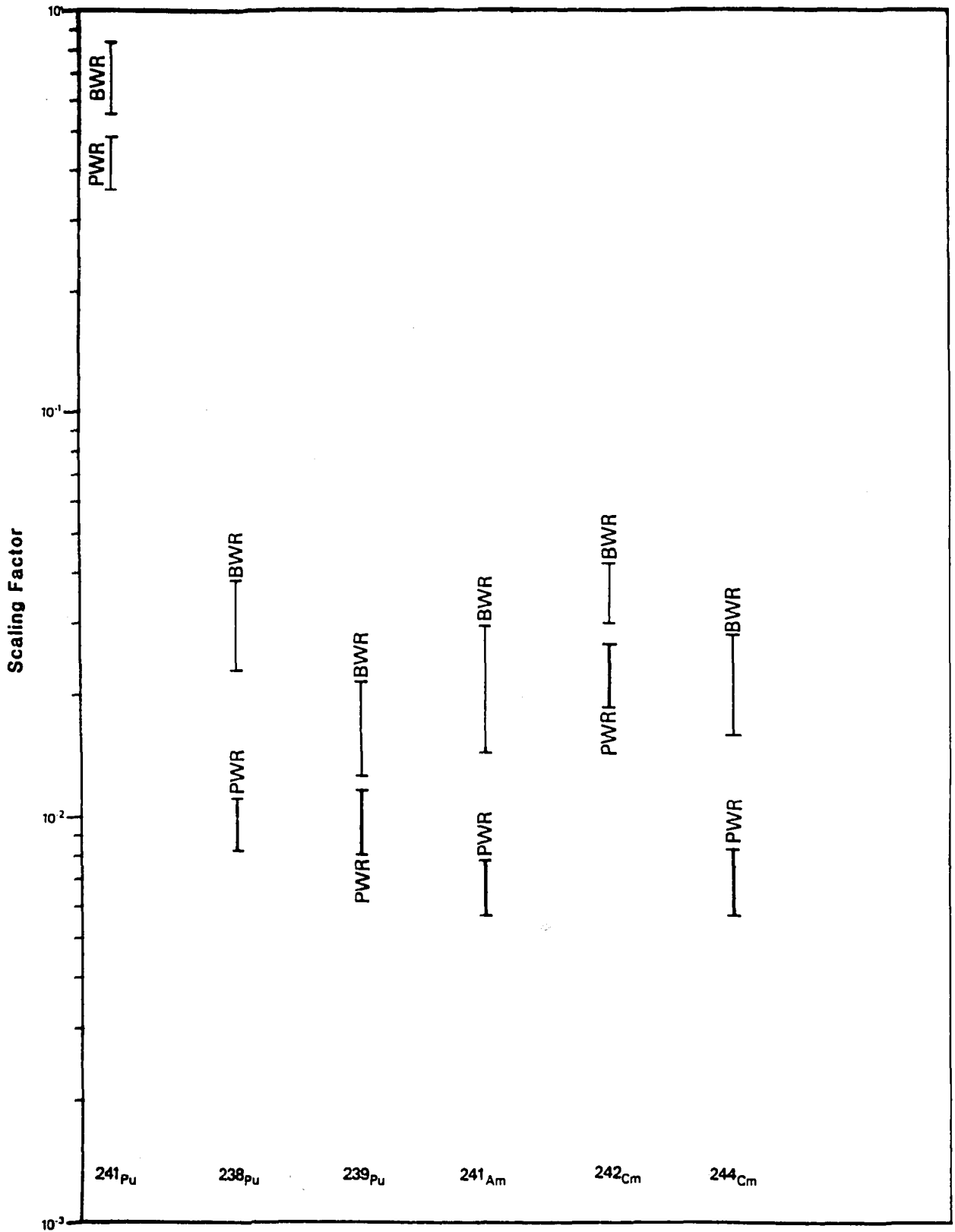
Table 3-19

## MEASURED SCALING FACTORS FOR TRANSURANICS, ALL PWR SAMPLES

<u>Nuclides</u>	<u>Scaling Factor</u>	<u>Uncertainty</u>	<u>Confidence Level (%)</u>	<u>Number of Values</u>
$^{241}\text{Pu}/^{144}\text{Ce}$	$4.19 \times 10^{-1}$	$5.98 \times 10^{-2}$	99	146
$^{242}\text{Cm}/^{144}\text{Ce}$	$2.27 \times 10^{-2}$	$4.00 \times 10^{-3}$	99	245
$^{238}\text{Pu}/^{144}\text{Ce}$	$9.72 \times 10^{-3}$	$1.50 \times 10^{-3}$	99	259
$^{239,240}\text{Pu}/^{144}\text{Ce}$	$9.98 \times 10^{-3}$	$1.83 \times 10^{-3}$	99	258
$^{241}\text{Am}/^{144}\text{Ce}$	$6.84 \times 10^{-3}$	$1.06 \times 10^{-3}$	99	252
$^{243,244}\text{Cm}/^{144}\text{Ce}$	$7.08 \times 10^{-3}$	$1.20 \times 10^{-3}$	99	239

Figure 3-4

GRAPHICAL PRESENTATION OF TRU SCALING FACTORS FOR ALL SAMPLES IN THE DATABASE



factors frequently (at least yearly) if use is mandated. Tables 3-20 and 3-21 show the results from correlating the other TRU nuclides to  $^{239,240}\text{Pu}$ . As observed, the correlations are good and more convenient scaling can be done through scaling of total TRU to a nuclide and using the relative scaling factors with  $^{239,240}\text{Pu}$  to obtain the concentrations of the individual nuclides.

1.  $^{239,140}\text{Pu}$  with  $^{144}\text{Ce}$

The correlation between insoluble rare-earth elements was demonstrated in a previous study<sup>1</sup> and verified in the present study. Although a generic scaling factor appears to have sufficient accuracy to be useful, even more accuracy is possible with corrections that correct for the radioactive decay of the relatively short lived  $^{144}\text{Ce}$  activity (done by estimating the service and storage age of the filter media).

2.  $^{239,240}\text{Pu}$  with  $^{137}\text{Cs}$  and  $^{60}\text{Co}$ .

The difficulty with the plutonium correlations with  $^{144}\text{Ce}$  is that although it works well, the cerium activity is seldom seen in gamma-ray analyses of radwaste unless some radiochemistry is done on the sample. Hence we looked for correlations with the fission product nuclide  $^{137}\text{Cs}$  and with the insoluble nuclide  $^{60}\text{Co}$ . These can be used only on a limited plant waste stream basis and over a limited period of time. Because of the similarity of transport mechanisms in reactor systems,  $^{60}\text{Co}$  or  $^{137}\text{Cs}$  provides better predictive ratios at present. If realistic absorption and source terms for the plutonium and cesium nuclides could be taken into account, the correlations would surely improve.

3.  $^{238}\text{Pu}$  with  $^{239,240}\text{Pu}$ .

This correlation, although dependent upon the irradiation age or burn-up of the fuel, is sufficiently accurate to be used as a generic scaling factor.



TABLE 3-20  
SCALING FACTORS FOR TRANSURANICS WITH  $^{239}\text{Pu}$ , ALL BWR SAMPLES

<u>Nuclide</u>	<u>Scaling Factor</u>	<u>Uncertainty</u>	<u>Confidence Level (%)</u>	<u>Number of Values</u>
$^{238}\text{Pu}/^{239}\text{Pu}$	$1.37 \times 10^0$	$8.93 \times 10^{-2}$	99	323
$^{241}\text{Pu}/^{239}\text{Pu}$	$3.64 \times 10^1$	$4.49 \times 10^0$	99	167
$^{241}\text{Am}/^{239}\text{Pu}$	$6.19 \times 10^{-1}$	$4.62 \times 10^{-2}$	99	302
$^{242}\text{Cm}/^{239}\text{Pu}$	$9.46 \times 10^{-1}$	$9.95 \times 10^{-2}$	99	280
$^{244}\text{Cm}/^{239}\text{Pu}$	$7.51 \times 10^{-1}$	$6.49 \times 10^{-2}$	99	277

TABLE 3-21  
SCALING FACTORS FOR TRANSURANICS WITH  $^{239}\text{Pu}$ , ALL PWR SAMPLES

<u>Nuclide</u>	<u>Scaling Factor</u>	<u>Uncertainty</u>	<u>Confidence Level (%)</u>	<u>Number of Values</u>
$^{238}\text{Pu}/^{239}\text{Pu}$	$8.41 \times 10^{-1}$	$4.58 \times 10^{-2}$	99	498
$^{241}\text{Pu}/^{239}\text{Pu}$	$2.97 \times 10^1$	$2.94 \times 10^0$	99	265
$^{241}\text{Am}/^{239}\text{Pu}$	$4.77 \times 10^{-1}$	$2.95 \times 10^{-2}$	99	474
$^{242}\text{Cm}/^{239}\text{Pu}$	$8.31 \times 10^{-1}$	$7.52 \times 10^{-2}$	99	434
$^{244}\text{Cm}/^{239}\text{Pu}$	$5.32 \times 10^{-1}$	$3.69 \times 10^{-2}$	99	446

4.  $^{241}\text{Am}$  with  $^{239,240}\text{Pu}$ .

This correlation should give a useful generic scaling factor. The americium activity is less abundant than the plutonium activities and, thus, the larger variance in the scaling factor is less important than it would be for plutonium.

5.  $^{243,244}\text{Cm}$  with  $^{239,240}\text{Pu}$ .

This correlation is similar to that between americium and plutonium. It gives a useful generic scaling factor.

6.  $^{242}\text{Cm}$  with  $^{239,240}\text{Pu}$ .

This correlation also should give useful generic scaling factors that, because of the relatively short half life of the curium isotope, could be made more accurate if the "age" of the sample were known (i.e., the time since the material last saw neutrons).

7.  $^{241}\text{Pu}$  with  $^{239,240}\text{Pu}$ .

The  $^{241}\text{Pu}$  activity is the most abundant transuranic activity in radwaste but the allowed limits are also the highest. The correlation with the  $^{239,240}\text{Pu}$  activities should give a usable generic scaling factor that could be improved further if fuel burn-up considerations were made.

8.  $^{242}\text{Pu}$  and  $^{243}\text{Am}$  with  $^{239,240}\text{Pu}$ .

The nuclides  $^{242}\text{Pu}$  and  $^{243}\text{Am}$  are seldom seen in analyses of radwaste. Calculations estimate their activities relative to the  $^{239,240}\text{Pu}$  and  $^{241}\text{Am}$  activities, respectively, as being relatively small. Hence, we believe that generic scaling factors can be used for these nuclides.

## 4.0 RECOMMENDATIONS FOR A PRACTICAL 10 CFR PART 61 PROGRAM

### 4.1 Sampling Program

A baseline for activity concentrations in solid waste and scaling factors in the radwaste streams should be established for each plant or station. A maintenance verification program should then be conducted to assure that the waste character has not undergone changes requiring the use of different scaling factors. Data should be acquired on most radwaste streams. The routine maintenance sampling program would require sampling on only a semi-annual or annual basis for scaling factor verification. A sampling of all waste streams should be included in that program. Class "A" wastes need be sampled to verify scaling factors only semi-annually, even with the variability and uncertainties in the fission-product scaling factors, since the lack of accuracy is not important in establishing classification. Wastes that may be Class "B" or "C" should require annual verification of scaling factors, especially those for  $^{90}\text{Sr}$ ,  $^{99}\text{Tc}$  and  $^{129}\text{I}$  since these are on quite specific basis and may influence the classification of higher-level wastes. Sampling for TRU correlations should be made annually if the correlating nuclides are other than the reliable  $^{144}\text{Ce}$ . Substantive changes, requiring additional sampling, could occur in the base line scaling factors following large fuel failures or differences in equipment or operation of the radwaste system. Some changes in the scaling factors of dry-active-waste could also occur during extensive maintenance operations such as replacement of recirculation piping or steam generator. Special sampling following changes in radwaste operations need only include those streams affected by the changes.

Each waste package should be measured for the gamma-ray emitting scaling nuclides. It is not a good practice to estimate nuclide concentrations in a shipment of resin (or other large and probably in-homogenous package) from the small sample sent for 10 CFR Part 61 analyses or measured in the laboratory for the gamma emitters. The present state-of-the-art in sampling does not warrant the assumption of representativeness or homogeneity in such scaling. Other methods such as the coupling of direct assay, dose measurements, and limited sampling will provide more realistic assays.

## 4.2 Scaling Factors and Usage

Table 4-1 summarizes the findings on scaling factors in this study. Generic scaling factors relate corrosion products to  $^{60}\text{Co}$  with sufficient accuracy to be useful. The most important corrosion product in classifying radwaste is  $^{63}\text{Ni}$ . This nuclide will dominate the classification over any of the others, including  $^{60}\text{Co}$ . The concentration of this nickel isotope can be estimated from a measured concentration of  $^{60}\text{Co}$  by applying the scaling factor appropriate for the particular reactor type, PWR or BWR. The other nuclides discussed in Section 3.3,  $^{14}\text{C}$  and  $^{55}\text{Fe}$ , can be similarly estimated through the generic scaling factors appropriate to the type of reactor. This should reduce the number of analyses required for the corrosion product nuclides.

Fission product scaling factors are not so easily available. There are no reliable generic factors relating any of the relevant nuclides,  $^{90}\text{Sr}$ ,  $^{99}\text{Tc}$ , or  $^{129}\text{I}$ , to  $^{137}\text{Cs}$ . Of these three nuclides, only  $^{90}\text{Sr}$  is particularly important in the classification for Class "A" wastes. The  $^{99}\text{Tc}$  and  $^{129}\text{I}$  nuclides may never dominate the classification of wastes. Because of the large variance of the scaling factors and the possible importance of  $^{90}\text{Sr}$  in classification, scaling factors for this nuclide (as well as for the others) should be on a waste stream and plant specific basis. When nuclide transport models have been demonstrated that predict accurately scaling factors for waste streams from reactor coolant data, less sampling may be required.

Scaling factors for transuranics are generic if the plants can measure the concentrations of  $^{144}\text{Ce}$ . Otherwise, scaling to some other nuclide, such as  $^{137}\text{Cs}$  or  $^{60}\text{Co}$ , is required. Again, until better nuclide transport models have been demonstrated, this should be done on radwaste stream and plant specific bases. It would be helpful to have a simple radiochemical technique that the plants could use to relate either  $^{60}\text{Co}$  or  $^{137}\text{Cs}$  to  $^{144}\text{Ce}$  in samples so that they could generate the specific TRU scaling factors for each waste.

TABLE 4-1

## SUMMARY OF SCALING FACTOR USE FOR 10 CFR PART 61 NUCLIDES

<u>Correlated Nuclide</u>	<u>Correlating Nuclide</u>	<u>Remarks On Use Of Scaling Factor For Waste</u>
$^3\text{H}$	(1)	Estimate coolant content of waste and use the concentration in coolant.
$^{14}\text{C}$	$^{60}\text{Co}$	Industry-generic scaling factor, different for PWRs and BWRs.
$^{59}\text{Ni}$	$^{60}\text{Co}$	Industry-generic scaling factor, different for reactor types.
$^{63}\text{Ni}$	$^{60}\text{Co}$	Industry-generic scaling factor, different for reactor types.
$^{90}\text{Sr}$	$^{137}\text{Cs}$	Plant and waste-stream specific.
$^{94}\text{Nb}$	$^{60}\text{Co}$	Little data, appears to be industry generic, different between reactor types.
$^{99}\text{Tc}$	$^{137}\text{Cs}$	Plant and waste-stream specific.
$^{129}\text{I}$	$^{137}\text{Cs}$	Plant and waste-stream specific.
TRU	$^{144}\text{Ce}$ (2)	Cerium has an Industry-generic scaling factor. Secondary correlations (to $^{60}\text{Co}$ or $^{137}\text{Cs}$ ) are on a plant, waste-stream and time specific basis.

- 
- (1)  $^3\text{H}$  does not scale to any other nuclide but is related to concentrations in reactor coolant.
- (2)  $^{144}\text{Ce}$  is not often observed in plant analyses. Commonly used alternate scaling nuclides are  $^{60}\text{Co}$  or  $^{137}\text{Cs}$ .

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5. J. W. Mandler, et al., In-Plant Source Term Measurements at Four PWRs, NUREG/CR-1992, August 1981.

APPENDIX A

DATABASE

This Appendix contains the analytical data in the SAIC database. It includes all of the radwaste samples analyzed to June 1984 by the SAIC Rockville laboratory.



A.1 Index of Samples Ordered by Sample Number

This listing gives, by increasing sample number, the position in the database file of each sample.

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## DATABASE SAMPLE INVENTORY

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(SORTED LISTING)

Sample number:	K001	C002	C001	T001	T002	T003	T004	T005	T006	T007
File location:	( 139)	( 450)	( 449)	( 29)	( 4)	( 94)	( 57)	( 108)	( 58)	( 95)
Sample number:	T008	T009	T010	T011	T012	T016	T017	T022	T023	T024
File location:	( 131)	( 92)	( 72)	( 90)	( 130)	( 12)	( 27)	( 133)	( 119)	( 120)
Sample number:	T025	T026	T027	T028	T029	T030	T031	T03	T035	T036
File location:	( 118)	( 132)	( 30)	( 24)	( 93)	( 59)	( 6)	( 372)	( 375)	( 13)
Sample number:	T037	T038	T039	T040	T041	T042	T043	T044	T045	T046
File location:	( 14)	( 91)	( 163)	( 343)	( 327)	( 367)	( 384)	( 442)	( 443)	( 73)
Sample number:	T048	T050	T051	T052	T054	T055	T056	T057	T064	T065
File location:	( 46)	( 1)	( 96)	( 98)	( 97)	( 48)	( 47)	( 28)	( 42)	( 44)
Sample number:	T066	T067	T069	T070	T071	T072	T073	T074	T075	T076
File location:	( 47)	( 31)	( 60)	( 102)	( 238)	( 239)	( 240)	( 241)	( 373)	( 142)
Sample number:	T077	T078	T079	T080	T081	T082	T083	T084	T085	T086
File location:	( 339)	( 328)	( 369)	( 374)	( 435)	( 436)	( 437)	( 438)	( 10)	( 45)
Sample number:	T087	T088	T089	T090	T091	T092	T094	T095	T096	T097
File location:	( 71)	( 338)	( 152)	( 15)	( 103)	( 61)	( 3)	( 342)	( 237)	( 383)
Sample number:	T098	T102	T112	T117	T168	T500	T500M	T600	T600M	T700
File location:	( 161)	( 433)	( 99)	( 53)	( 126)	( 136)	( 192)	( 137)	( 191)	( 138)
Sample number:	T700M	10000	10001	10003	10004	10005	10006	10007	10008	10010
File location:	( 193)	( 473)	( 474)	( 477)	( 478)	( 479)	( 480)	( 359)	( 360)	( 361)
Sample number:	10011	10012	10013	10014	10015	10016	10026	10027	10029	10030
File location:	( 362)	( 493)	( 463)	( 464)	( 465)	( 466)	( 491)	( 492)	( 467)	( 468)
Sample number:	10031	10056	10057	10058	10059	10062	10063	10064	10065	10066
File location:	( 469)	( 454)	( 455)	( 456)	( 457)	( 458)	( 459)	( 460)	( 461)	( 462)
Sample number:	10072	10074	10075	10076	10077	10078	10079	10082	10083	10084
File location:	( 519)	( 521)	( 522)	( 523)	( 524)	( 525)	( 520)	( 453)	( 452)	( 486)
Sample number:	10085	10086	10087	10088	10090	10106	10108	10109	10110	10111
File location:	( 487)	( 488)	( 489)	( 490)	( 451)	( 505)	( 526)	( 527)	( 528)	( 529)
Sample number:	10112	10113	10114	10115	10116	10117	10118	10121	10123	10124
File location:	( 530)	( 531)	( 532)	( 533)	( 534)	( 535)	( 536)	( 506)	( 500)	( 499)
Sample number:	10125	10126	10127	10128	10129	10130	10131	10132	10133	10134
File location:	( 507)	( 508)	( 509)	( 510)	( 511)	( 512)	( 513)	( 514)	( 515)	( 516)
Sample number:	10135	10136	10137	10138	10139	10140	10142	10143	10144	10145
File location:	( 517)	( 518)	( 540)	( 537)	( 538)	( 539)	( 55)	( 501)	( 502)	( 503)
Sample number:	10146	10147	10148	10149	10150	10151	10152	10153	10155	10156
File location:	( 504)	( 194)	( 197)	( 541)	( 542)	( 543)	( 544)	( 545)	( 546)	( 547)
Sample number:	10156	10157	10158	10159	10160	10161	10162	10163	10164	10165
File location:	( 569)	( 548)	( 549)	( 550)	( 568)	( 551)	( 553)	( 554)	( 555)	( 556)
Sample number:	10166	10167	10168	10169	10170	10171	10172	10174	10175	10176
File location:	( 557)	( 558)	( 552)	( 559)	( 560)	( 562)	( 561)	( 563)	( 564)	( 565)

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## DATABASE SAMPLE INVENTORY

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(SORTED LISTING)

Sample number:	10177	10178	10179	10180	10185	10186	10188	10189	10190	10191
File location:	( 566)	( 567)	( 189)	( 190)	( 571)	( 370)	( 572)	( 573)	( 597)	( 598)
Sample number:	10192	10193	10194	10195	10200	10201	10202	10203	10204	10205
File location:	( 582)	( 583)	( 584)	( 585)	( 586)	( 587)	( 588)	( 589)	( 390)	( 578)
Sample number:	10206	10207	10208	10209	10212	10213	10214	10222	10225	10227
File location:	( 577)	( 574)	( 575)	( 576)	( 579)	( 580)	( 581)	( 608)	( 609)	( 610)
Sample number:	10229	10230	10231	10232	10233	10234	10235	10236	10237	10238
File location:	( 594)	( 599)	( 600)	( 601)	( 602)	( 603)	( 604)	( 605)	( 606)	( 607)
Sample number:	10246	10247	10248	10249	10250	10258	10259	10261	10262	10264
File location:	( 595)	( 596)	( 591)	( 592)	( 593)	( 730)	( 611)	( 612)	( 613)	( 614)
Sample number:	10265	10266	10267	10268	10269	10270	10271	10273	10274	10275
File location:	( 615)	( 616)	( 617)	( 618)	( 619)	( 620)	( 621)	( 622)	( 623)	( 732)
Sample number:	10276	10277	10278	10279	10280	10281	10282	10283	10284	10285
File location:	( 733)	( 734)	( 735)	( 736)	( 737)	( 738)	( 739)	( 740)	( 731)	( 624)
Sample number:	10286	10287	10289	10290	10293	10294	10295	10296	10297	10298
File location:	( 625)	( 626)	( 627)	( 741)	( 634)	( 635)	( 636)	( 637)	( 639)	( 639)
Sample number:	10299	10300	10301	10302	10303	10304	10305	10306	10307	10308
File location:	( 640)	( 641)	( 746)	( 747)	( 744)	( 742)	( 743)	( 745)	( 628)	( 629)
Sample number:	10311	10312	10313	10314	10318	10319	10320	10329	10330	10331
File location:	( 630)	( 631)	( 632)	( 633)	( 642)	( 643)	( 644)	( 750)	( 751)	( 860)
Sample number:	10332	10333	10334	10335	10336	10337	10338	10339	10340	10345
File location:	( 861)	( 862)	( 863)	( 752)	( 753)	( 754)	( 864)	( 865)	( 755)	( 645)
Sample number:	10347	10348	10349	10350	10351	10352	10353	10354	10355	10356
File location:	( 646)	( 647)	( 756)	( 757)	( 758)	( 759)	( 760)	( 761)	( 762)	( 763)
Sample number:	10357	10358	10359	10360	10361	10362	10363	10364	10366	10370
File location:	( 764)	( 765)	( 766)	( 767)	( 768)	( 769)	( 770)	( 655)	( 654)	( 656)
Sample number:	10374	10375	10377	10382	10384	10385	10386	10387	10388	10390
File location:	( 657)	( 658)	( 659)	( 650)	( 651)	( 652)	( 653)	( 749)	( 648)	( 649)
Sample number:	10391	10392	10393	10394	10395	10396	10397	10398	10399	10400
File location:	( 771)	( 772)	( 773)	( 774)	( 775)	( 776)	( 777)	( 778)	( 661)	( 662)
Sample number:	10401	10402	10403	10404	10405	10406	10407	10408	10409	10410
File location:	( 663)	( 664)	( 665)	( 666)	( 667)	( 748)	( 680)	( 681)	( 682)	( 683)
Sample number:	10412	10414	10415	10416	10417	10418	10419	10420	10422	10424
File location:	( 684)	( 685)	( 686)	( 687)	( 688)	( 689)	( 690)	( 691)	( 692)	( 693)
Sample number:	10425	10426	10427	10428	10429	10431	10433	10434	10435	10436
File location:	( 694)	( 695)	( 696)	( 697)	( 698)	( 699)	( 700)	( 701)	( 779)	( 780)
Sample number:	10437	10438	10439	10440	10441	10442	10443	10444	10445	10446
File location:	( 781)	( 782)	( 783)	( 784)	( 785)	( 660)	( 786)	( 787)	( 788)	( 789)
Sample number:	10447	10448	10449	10450	10451	10452	10453	10454	10455	10457
File location:	( 790)	( 791)	( 792)	( 793)	( 794)	( 795)	( 796)	( 797)	( 798)	( 674)

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## DATABASE SAMPLE INVENTORY

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Sample number:	10458	10459	10460	10461	10462	10466	10467	10468	10472	10473
File location:	( 675)	( 676)	( 668)	( 669)	( 670)	( 671)	( 672)	( 673)	( 677)	( 678)
Sample number:	10476	10477	10478	10479	10482	10484	10485	10486	10487	10488
File location:	( 679)	( 702)	( 703)	( 704)	( 712)	( 713)	( 714)	( 715)	( 716)	( 717)
Sample number:	10489	10490	10491	10492	10493	10494	10495	10496	10497	10498
File location:	( 867)	( 800)	( 866)	( 801)	( 802)	( 705)	( 706)	( 707)	( 708)	( 709)
Sample number:	10499	10500	10501	10503	10507	10508	10509	10510	10511	10519
File location:	( 710)	( 711)	( 803)	( 804)	( 718)	( 719)	( 720)	( 721)	( 722)	( 723)
Sample number:	10520	10521	10522	10523	10524	10525	10526	10527	10528	10529
File location:	( 805)	( 806)	( 807)	( 808)	( 809)	( 810)	( 811)	( 812)	( 813)	( 814)
Sample number:	10530	10531	10532	10533	10534	10536	10537	10538	10539	10540
File location:	( 815)	( 816)	( 817)	( 818)	( 819)	( 724)	( 725)	( 726)	( 727)	( 820)
Sample number:	10541	10542	10543	10544	10545	10546	10547	10548	10549	10550
File location:	( 821)	( 822)	( 823)	( 824)	( 825)	( 826)	( 827)	( 828)	( 829)	( 830)
Sample number:	10551	10552	10553	10554	10555	10556	10557	10559	10561	10563
File location:	( 831)	( 832)	( 868)	( 869)	( 870)	( 799)	( 833)	( 834)	( 835)	( 836)
Sample number:	10564	10565	10567	10569	10570	10571	10572	10573	10574	10575
File location:	( 837)	( 838)	( 839)	( 840)	( 841)	( 842)	( 843)	( 844)	( 845)	( 846)
Sample number:	10576	10577	10578	10579	10582	10596	10599	10601	10602	10604
File location:	( 847)	( 848)	( 849)	( 728)	( 729)	( 852)	( 853)	( 854)	( 855)	( 850)
Sample number:	10605	10645	10646	10647	10654	10655	10658	10672	10674	10675
File location:	( 851)	( 871)	( 872)	( 873)	( 884)	( 885)	( 886)	( 893)	( 887)	( 888)
Sample number:	10681	10682	10683	10684	10696	10697	10698	10699	10706	10709
File location:	( 856)	( 857)	( 858)	( 859)	( 889)	( 890)	( 891)	( 892)	( 874)	( 875)
Sample number:	10710	10711	10712	10713	10714	10715	10716	10717	10727	10729
File location:	( 876)	( 877)	( 878)	( 879)	( 880)	( 881)	( 882)	( 883)	( 899)	( 900)
Sample number:	10730	10731	10732	10757	10758	10759	10760	10761	10762	10808
File location:	( 901)	( 902)	( 903)	( 904)	( 894)	( 895)	( 896)	( 897)	( 898)	( 905)
Sample number:	10809	10810	10811	10812	10813	10814	10876	10878	4727	6311
File location:	( 906)	( 907)	( 908)	( 909)	( 910)	( 911)	( 912)	( 913)	( 5)	( 50)
Sample number:	6366	6378	6379	6724	6725	6727	6728	6729	6730	6738
File location:	( 11)	( 65)	( 67)	( 146)	( 147)	( 439)	( 148)	( 149)	( 150)	( 335)
Sample number:	6786	6787	6789	6790	6792	6806	6812	6813	6814	6815
File location:	( 52)	( 104)	( 51)	( 106)	( 105)	( 8)	( 68)	( 66)	( 16)	( 121)
Sample number:	6816	6817	6818	6819	6820	6821	6822	6823	6824	6825
File location:	( 113)	( 114)	( 115)	( 116)	( 122)	( 112)	( 125)	( 117)	( 124)	( 123)
Sample number:	6826	6827	6841	6842	6843	6844	6846	6848	6850	6852
File location:	( 7)	( 107)	( 365)	( 162)	( 159)	( 382)	( 381)	( 324)	( 434)	( 344)
Sample number:	6854	6855	6858	6859	6955	6956	6957	6958	6959	6960
File location:	( 385)	( 153)	( 368)	( 236)	( 145)	( 143)	( 332)	( 326)	( 370)	( 329)

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## DATABASE SAMPLE INVENTORY

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Sample number:	6961	6975	6976	6977	6996	7003	7004	7014	7048	7049
File location:	( 333)	( 22)	( 18)	( 20)	( 62)	( 128)	( 127)	( 109)	( 2)	( 160)
Sample number:	7050	7052	7058	7062	7063	7065	7066	7076	7077	7087
File location:	( 158)	( 9)	( 54)	( 74)	( 56)	( 380)	( 337)	( 129)	( 366)	( 69)
Sample number:	7088	7130	7131	7132	7140	7147	7148	7149	7150	7151
File location:	( 70)	( 157)	( 156)	( 17)	( 151)	( 377)	( 336)	( 341)	( 86)	( 85)
Sample number:	7153	7154	7157	7158	7162	7163	7164	7165	7169	7186
File location:	( 363)	( 364)	( 378)	( 376)	( 345)	( 346)	( 155)	( 154)	( 43)	( 379)
Sample number:	7187	7188	7196	7198	7199	7267	7268	7269	7285	7287
File location:	( 432)	( 353)	( 441)	( 440)	( 181)	( 141)	( 144)	( 140)	( 331)	( 371)
Sample number:	7288	7290	7292	7293	7385	7386	7388	7392	7393	7394
File location:	( 330)	( 334)	( 325)	( 323)	( 182)	( 183)	( 444)	( 19)	( 23)	( 21)
Sample number:	7397	7398	7399	7400	7401	7402	7432	7433	7439	7440
File location:	( 426)	( 427)	( 352)	( 63)	( 64)	( 340)	( 184)	( 175)	( 386)	( 170)
Sample number:	7442	7444	7445	7446	7447	7448	7449	7450	7451	7452
File location:	( 32)	( 391)	( 358)	( 111)	( 396)	( 110)	( 81)	( 100)	( 356)	( 101)
Sample number:	7455	7456	7493	7495	7562	7567	7570	7583	7586	7588
File location:	( 416)	( 80)	( 87)	( 428)	( 173)	( 171)	( 35)	( 414)	( 412)	( 82)
Sample number:	7589	7591	7592	7593	7594	7595	7598	7600	7602	7604
File location:	( 83)	( 387)	( 389)	( 388)	( 431)	( 357)	( 403)	( 423)	( 398)	( 347)
Sample number:	7605	7606	7648	7649	7650	7651	7652	7653	7654	7655
File location:	( 429)	( 354)	( 185)	( 38)	( 167)	( 40)	( 36)	( 178)	( 176)	( 164)
Sample number:	7656	7674	7676	7677	7683	7684	7685	7686	7689	7690
File location:	( 33)	( 88)	( 413)	( 417)	( 424)	( 404)	( 401)	( 76)	( 348)	( 75)
Sample number:	7691	7692	7693	7694	7696	7697	7808	7809	7810	7813
File location:	( 405)	( 399)	( 400)	( 446)	( 394)	( 392)	( 34)	( 134)	( 135)	( 77)
Sample number:	7815	7816	7817	7818	7819	7888	7889	7890	7991	7892
File location:	( 258)	( 259)	( 260)	( 261)	( 262)	( 174)	( 37)	( 39)	( 41)	( 172)
Sample number:	7893	7894	7895	7896	7897	7913	7915	7916	7917	7918
File location:	( 447)	( 448)	( 179)	( 168)	( 165)	( 78)	( 79)	( 169)	( 180)	( 410)
Sample number:	7919	7920	7921	7922	7923	7924	7925	7926	8001	8002
File location:	( 351)	( 408)	( 350)	( 397)	( 411)	( 166)	( 421)	( 422)	( 430)	( 84)
Sample number:	8003	8014	8015	8016	8017	8018	8019	8020	8021	8023
File location:	( 390)	( 349)	( 406)	( 402)	( 407)	( 420)	( 425)	( 409)	( 355)	( 89)
Sample number:	8025	8026	8028	8029	8030	8037	8038	8067	8090	8091
File location:	( 177)	( 186)	( 419)	( 395)	( 415)	( 393)	( 418)	( 445)	( 245)	( 246)
Sample number:	8092	8093	8094	8316	8329	8331	8470	8471	8472	8473
File location:	( 247)	( 248)	( 249)	( 218)	( 195)	( 196)	( 274)	( 275)	( 276)	( 277)
Sample number:	8646	8647	8648	8649	8656	9034	9117	9118	9119	9122
File location:	( 205)	( 206)	( 207)	( 208)	( 209)	( 187)	( 242)	( 243)	( 244)	( 219)

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## DATABASE SAMPLE INVENTORY

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Sample number:	9213	9245	9262	9263	9264	9329	9330	9331	9332	9333
File location:	( 221)	( 318)	( 268)	( 269)	( 270)	( 263)	( 264)	( 265)	( 266)	( 267)
Sample number:	9365	9366	9367	9386	9471	9472	9473	9474	9475	9476
File location:	( 229)	( 230)	( 231)	( 281)	( 290)	( 291)	( 292)	( 293)	( 294)	( 295)
Sample number:	9477	9478	9479	9480	9481	9482	9483	9484	9485	9501
File location:	( 296)	( 297)	( 298)	( 299)	( 300)	( 301)	( 302)	( 303)	( 304)	( 210)
Sample number:	9502	9503	9504	9505	9507	9509	9510	9604	9605	9606
File location:	( 211)	( 212)	( 213)	( 214)	( 215)	( 216)	( 217)	( 282)	( 283)	( 284)
Sample number:	9607	9608	9609	9610	9611	9634	9635	9636	9637	9652
File location:	( 285)	( 286)	( 287)	( 288)	( 289)	( 234)	( 235)	( 232)	( 233)	( 188)
Sample number:	9684	9685	9686	9687	9688	9689	9690	9759	9760	9761
File location:	( 222)	( 223)	( 224)	( 225)	( 226)	( 227)	( 228)	( 199)	( 198)	( 200)
Sample number:	9762	9767	9768	9769	9770	9771	9772	9773	9774	9775
File location:	( 201)	( 305)	( 306)	( 307)	( 308)	( 309)	( 310)	( 311)	( 312)	( 313)
Sample number:	9776	9777	9778	9779	9799	9800	9801	9802	9803	9804
File location:	( 314)	( 315)	( 316)	( 317)	( 252)	( 253)	( 254)	( 255)	( 256)	( 257)
Sample number:	9805	9806	9807	9808	9846	9847	9851	9852	9853	9854
File location:	( 220)	( 278)	( 279)	( 280)	( 280)	( 251)	( 204)	( 202)	( 203)	( 271)
Sample number:	9856	9857	9922	9928	9929	9960	9963	9969	9970	9973
File location:	( 272)	( 273)	( 498)	( 25)	( 26)	( 494)	( 497)	( 495)	( 496)	( 485)
Sample number:	9974	9978	9980	9981	9982	9991	9992	9993	9994	9995
File location:	( 484)	( 319)	( 320)	( 321)	( 322)	( 475)	( 476)	( 481)	( 482)	( 483)
Sample number:	9997	9998	9999							
File location:	( 470)	( 471)	( 472)							

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## A.2 Sequential Listing of Sample Data in Database

This listing gives the order within the database, the sample number, name of the plant from which the sample came, the category of sample type and the sampling date for each sample in the base. The plant name is left blank for some of the entries, where the utility requested that the name not be given.

	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )
SAMPLE NUMBER:	T050	7048	T094	T002	4727
PLANT NAME:	PILGRIM	QUAD CITIES	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLING DATE:	08-OCT-76	14-MAR-78	15-MAR-77	22-MAR-76	13-OCT-76
	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
SAMPLE NUMBER:	T031	6826	6806	7052	T085
PLANT NAME:	MONTICELLO	MILLSTONE	MONTICELLO	MONTICELLO	MONTICELLO
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLING DATE:	16-MAR-76	14-DEC-77	06-DEC-77	28-MAR-78	08-FEB-77
	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )
SAMPLE NUMBER:	6366	T016	T036	T037	T090
PLANT NAME:	MONTICELLO	BIG ROCK POINT	BIG ROCK POINT	BIG ROCK POINT	BIG ROCK POINT
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLING DATE:	22-JUN-77	29-JAN-76	27-MAY-76	13-MAY-76	18-FEB-77
	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )
SAMPLE NUMBER:	6814	7132	6976	7392	6977
PLANT NAME:	BIG ROCK POINT	BIG ROCK POINT			
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLING DATE:	30-NOV-77	14-APR-78	23-FEB-78	16-JUN-78	23-FEB-78
	( 21 )	( 22 )	( 23 )	( 24 )	( 25 )
SAMPLE NUMBER:	7394	6975	7393	T028	9928
PLANT NAME:				OYSTER CREEK	OCONEE
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	FILTER CARTRIDGE
SAMPLING DATE:	16-JUN-78	23-FEB-78	16-JUN-78	25-JUN-76	19-AUG-82
	( 26 )	( 27 )	( 28 )	( 29 )	( 30 )
SAMPLE NUMBER:	9929	T017	T057	T001	T027
PLANT NAME:	OCONEE	BIG ROCK POINT	PILGRIM	OYSTER CREEK	OYSTER CREEK
SAMPLE TYPE:	FILTER CARTRIDGE	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLING DATE:	19-AUG-82	03-MAR-76	26-JUL-76	22-MAR-76	15-JUN-76
	( 31 )	( 32 )	( 33 )	( 34 )	( 35 )
SAMPLE NUMBER:	T067	7442	7656	7808	7570
PLANT NAME:	OYSTER CREEK	MILLSTONE	MONTICELLO	MONTICELLO	
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLING DATE:	13-OCT-76	12-JUL-78	31-AUG-78	13-DEC-78	21-JUN-78
	( 36 )	( 37 )	( 38 )	( 39 )	( 40 )
SAMPLE NUMBER:	7652	7889	7649	7890	7651
PLANT NAME:					
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLING DATE:	02-OCT-78	31-JAN-79	02-OCT-78	31-JAN-79	11-DEC-78
	( 41 )	( 42 )	( 43 )	( 44 )	( 45 )
SAMPLE NUMBER:	7891	T064	7169	T065	T086
PLANT NAME:		MONTICELLO	MONTICELLO	MONTICELLO	MONTICELLO
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	FILTER SLUDGE	FILTER SLUDGE
SAMPLING DATE:	31-JAN-79	04-OCT-76	25-APR-78	03-OCT-76	08-FEB-77
	( 46 )	( 47 )	( 48 )	( 49 )	( 50 )
SAMPLE NUMBER:	T048	T066	T055	T056	6311
PLANT NAME:	MONTICELLO	MONTICELLO	PILGRIM	PILGRIM	OYSTER CREEK
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE
SAMPLING DATE:	26-MAY-76	03-OCT-76	26-JUL-76	26-JUL-76	01-JUN-77



	( 51)	( 52)	( 53)	( 54)	( 55)
SAMPLE NUMBER:	6789	6786	T117	7058	10142
PLANT NAME:	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	SMEAR
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	06-JUL-83
SAMPLING DATE:	12-JAN-77	16-MAR-77	02-JUN-77	28-FEB-78	
	( 56)	( 57)	( 58)	( 59)	( 60)
SAMPLE NUMBER:	7063	T004	T006	T030	T069
PLANT NAME:	QUAD CITIES	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE
SAMPLING DATE:	01-MAR-78	22-MAR-76	22-MAR-76	07-JUN-76	14-OCT-76
	( 61)	( 62)	( 63)	( 64)	( 65)
SAMPLE NUMBER:	T092	6496	7400	7401	6378
PLANT NAME:	OYSTER CREEK				MONTICELLO
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE
SAMPLING DATE:	16-MAR-77	17 JAN 78	04-APR-78	01-MAY-78	22-JUN-77
	( 66)	( 67)	( 68)	( 69)	( 70)
SAMPLE NUMBER:	6813	6379	6812	7087	7088
PLANT NAME:	MONTICELLO	MONTICELLO	MONTICELLO	MONTICELLO	MONTICELLO
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE
SAMPLING DATE:	05-DEC-77	17-JUN-77	05-DEC-77	06-FEB-78	09-FEB-78
	( 71)	( 72)	( 73)	( 74)	( 75)
SAMPLE NUMBER:	T087	T010	T046	7062	7690
PLANT NAME:	MONTICELLO	MONTICELLO	MONTICELLO	QUAD CITIES	MONTICELLO
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE
SAMPLING DATE:	09-FEB-77	05-AUG-75	04-JUN-76	16-MAR-78	20-JUL-78
	( 76)	( 77)	( 78)	( 79)	( 80)
SAMPLE NUMBER:	7686	7813	7913	7915	7456
PLANT NAME:	MONTICELLO	MONTICELLO	MONTICELLO	MONTICELLO	OYSTER CREEK
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE
SAMPLING DATE:	20-JUL-78	04-DEC-78	10-JUL-79	03-JUL-79	31-MAY-78
	( 81)	( 82)	( 83)	( 84)	( 85)
SAMPLE NUMBER:	7449	7588	7589	8002	7151
PLANT NAME:	MILLSTONE				QUAD CITIES
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE
SAMPLING DATE:	02-AUG-78	22-JUL-78	17-JUL-78	01-FEB-79	14-MAR-78
	( 86)	( 87)	( 88)	( 89)	( 90)
SAMPLE NUMBER:	7150	7493	7674	8023	T011
PLANT NAME:	QUAD CITIES	QUAD CITIES	QUAD CITIES	QUAD CITIES	BIG ROCK POINT
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	RESIN
SAMPLING DATE:	14-MAR-78	11-AUG-78	08-DEC-78	06-JUL-79	17-APR-75
	( 91)	( 92)	( 93)	( 94)	( 95)
SAMPLE NUMBER:	T038	T009	T029	T003	T007
PLANT NAME:	BIG ROCK POINT	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK
SAMPLE TYPE:	RESIN	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	RESIN	RESIN
SAMPLING DATE:	20-FEB-76	26-AUG-76	03-JUN-76	22-MAR-76	23-MAR-76
	( 96)	( 97)	( 98)	( 99)	( 100)
SAMPLE NUMBER:	T051	T054	T052	T112	7450
PLANT NAME:	PILGRIM	PILGRIM	PILGRIM	LA CROSSE	OYSTER CREEK
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLING DATE:	24-JUN-76	26-JUL-76	26-JUL-76	08-SEP-77	22-JUN-78

	( 101 )	( 102 )	( 103 )	( 104 )	( 105 )
SAMPLE NUMBER:	7452	T070	T091	6787	6792
PLANT NAME:	MILLSTONE	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK
SAMPLE TYPE:	RESIN	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS
SAMPLING DATE:	02-AUG-78	19-OCT-76	03-MAR-77	28-APR-77	27-SEP-77
	( 106 )	( 107 )	( 108 )	( 109 )	( 110 )
SAMPLE NUMBER:	6790	6827	T005	7014	7448
PLANT NAME:	OYSTER CREEK	MILLSTONE	OYSTER CREEK	OYSTER CREEK	MILLSTONE
SAMPLE TYPE:	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS
SAMPLING DATE:	16-MAR-77	06-DEC-77	22-MAR-76	28-FEB-78	10-JUL-78
	( 111 )	( 112 )	( 113 )	( 114 )	( 115 )
SAMPLE NUMBER:	7446	6821	6816	6817	6818
PLANT NAME:	MILLSTONE	BIG ROCK POINT	BIG ROCK POINT	BIG ROCK POINT	BIG ROCK POINT
SAMPLE TYPE:	EVAPORATOR BOTTOMS	CRUD	CRUD	CRUD	CRUD
SAMPLING DATE:	11-JUL-78	25-JUN-76	04-AUG-77	04-AUG-77	04-AUG-77
	( 116 )	( 117 )	( 118 )	( 119 )	( 120 )
SAMPLE NUMBER:	6819	6823	T025	T023	T024
PLANT NAME:	BIG ROCK POINT	BIG ROCK POINT	BIG ROCK POINT	BIG ROCK POINT	BIG ROCK POINT
SAMPLE TYPE:	CRUD	CRUD	CRUD	CRUD	CRUD
SAMPLING DATE:	04-AUG-77	03-AUG-77	22-FEB-76	05-MAR-76	09-FEB-76
	( 121 )	( 122 )	( 123 )	( 124 )	( 125 )
SAMPLE NUMBER:	6815	6820	6825	6824	6822
PLANT NAME:	BIG ROCK POINT	BIG ROCK POINT	BIG ROCK POINT	BIG ROCK POINT	BIG ROCK POINT
SAMPLE TYPE:	CRUD	CRUD	CRUD	CRUD	CRUD
SAMPLING DATE:	03-AUG-77	03-AUG-77	11-AUG-77	03-AUG-77	04-AUG-77
	( 126 )	( 127 )	( 128 )	( 129 )	( 130 )
SAMPLE NUMBER:	T168	7004	7003	7076	T012
PLANT NAME:				GUAD CITIES	OYSTER CREEK
SAMPLE TYPE:	CRUD	CRUD	CRUD	CRUD	CRUD
SAMPLING DATE:	18-OCT-78	18-OCT-77	18-OCT-77	16-MAR-78	22-MAR-76
	( 131 )	( 132 )	( 133 )	( 134 )	( 135 )
SAMPLE NUMBER:	T008	T026	T022	7809	7810
PLANT NAME:	MONTICELLO	MONTICELLO	BIG ROCK POINT	MONTICELLO	MONTICELLO
SAMPLE TYPE:	SMEAR	SMEAR	SMEAR	SMEAR	SMEAR
SAMPLING DATE:	14-OCT-75	14-APR-75	18-FEB-76	04-NOV-78	04-NOV-78
	( 136 )	( 137 )	( 138 )	( 139 )	( 140 )
SAMPLE NUMBER:	T500	T600	T700	K001	7269
PLANT NAME:	MILLSTONE	MILLSTONE	MILLSTONE	MILLSTONE	OCONEE
SAMPLE TYPE:	SMEAR	SMEAR	SMEAR	SMEAR	REACTOR COOLANT
SAMPLING DATE:	10-APR-79	31-APR-79	11-MAY-79	05-APR-79	12-MAY-78
	( 141 )	( 142 )	( 143 )	( 144 )	( 145 )
SAMPLE NUMBER:	7267	T076	6956	7268	6955
PLANT NAME:	OCONEE	GINNA	OCONEE	OCONEE	OCONEE
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLING DATE:	11-MAY-78	14-OCT-76	02-DEC-77	08-MAY-78	08-DEC-77
	( 146 )	( 147 )	( 148 )	( 149 )	( 150 )
SAMPLE NUMBER:	6724	6725	6723	6729	6730
PLANT NAME:	GINNA	GINNA	GINNA	GINNA	GINNA
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLING DATE:	16-SEP-76	12-APR-73	03-MAR-77	01-SEP-77	25-AUG-77

	( 151)	( 152)	( 153)	( 154)	( 155)
SAMPLE NUMBER:	7140	T089	6855	7165	7164
PLANT NAME:	GINNA	CALVERT CLIFFS	YANKEE ROWE	YANKEE ROWE	YANKEE ROWE
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLING DATE:	24-OCT-77	23-MAR-77	16-DEC-77	03-MAR-78	27-JAN-78
	( 156)	( 157)	( 158)	( 159)	( 160)
SAMPLE NUMBER:	7131	7130	7050	6843	7049
PLANT NAME:	ZION	ZION			
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLING DATE:	20-NOV-77	17-MAR-78	02-MAR-78	21-NOV-77	02-MAR-78
	( 161)	( 162)	( 163)	( 164)	( 165)
SAMPLE NUMBER:	T098	6842	T039	7655	7897
PLANT NAME:	YANKEE ROWE		YANKEE ROWE	OCONEE	OCONEE
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLING DATE:	11-MAY-77	16-NOV-77	25-JUN-76	27-NOV-78	07-MAR-79
	( 166)	( 167)	( 168)	( 169)	( 170)
SAMPLE NUMBER:	7924	7650	7896	7916	7440
PLANT NAME:	OCONEE	OCONEE	OCONEE	OCONEE	CONNECTICUT YANKEE
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLING DATE:	18-APR-79	27-NOV-78	20-MAR-79	19-APR-79	30-JUN-78
	( 171)	( 172)	( 173)	( 174)	( 175)
SAMPLE NUMBER:	7567	7892	7562	7888	7433
PLANT NAME:	CONNECTICUT YANKEE	CONNECTICUT YANKEE	YANKEE ROWE	YANKEE ROWE	
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLING DATE:	12-OCT-78	16-NOV-78	23-OCT-78	30-MAR-79	28-JUN-78
	( 176)	( 177)	( 178)	( 179)	( 180)
SAMPLE NUMBER:	7654	8025	7653	7895	7917
PLANT NAME:			OCONEE	OCONEE	OCONEE
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLING DATE:	20-DEC-78	07-MAR-79	04-DEC-78	06-MAR-79	23-APR-79
	( 181)	( 182)	( 183)	( 184)	( 185)
SAMPLE NUMBER:	7199	7385	7386	7432	7648
PLANT NAME:	GINNA	GINNA	GINNA		
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLING DATE:	26-MAR-78	20-OCT-77	04-MAY-78	28-JUN-78	20-DEC-78
	( 186)	( 187)	( 188)	( 189)	( 190)
SAMPLE NUMBER:	8026	9034	9652	10179	10180
PLANT NAME:		TROJAN	TROJAN		
SAMPLE TYPE:	REACTOR COOLANT	RESIN	FILTER CARTRIDGE	SMEAR	SMEAR
SAMPLING DATE:	07-MAR-79	5-DEC-80	27-OCT-81	08-JUL-83	08-JUL-83
	( 191)	( 192)	( 193)	( 194)	( 195)
SAMPLE NUMBER:	T600M	T500M	T700M	10147	8329
PLANT NAME:	MILLSTONE	MILLSTONE	MILLSTONE	MONTICELLO	MILLSTONE
SAMPLE TYPE:	SMEAR	SMEAR	SMEAR	REACTOR COOLANT	SMEAR
SAMPLING DATE:	06-APR-79	06-APR-79	06-APR-79	04-MAY-83	10-MAR-80
	( 196)	( 197)	( 198)	( 199)	( 200)
SAMPLE NUMBER:	8331	10148	9760	9759	9761
PLANT NAME:	MILLSTONE	MONTICELLO	SURRY	SURRY	NORTH ANNA
SAMPLE TYPE:	SMEAR	FILTER CARTRIDGE	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLING DATE:	10-MAR-80	25-APR-83	17-JAN-82	17-JAN-82	20-JAN-82

( 201 )	( 202 )	( 203 )	( 204 )	( 205 )
SAMPLE NUMBER: 9762	9852	9853	9851	8646
PLANT NAME: NORTH ANNA	PEACH BOTTOM	PEACH BOTTOM	PEACH BOTTOM	REACTOR COOLANT
SAMPLE TYPE: REACTOR COOLANT	RESIN	RESIN	REACTOR COOLANT	REACTOR COOLANT
SAMPLING DATE: 20-JAN-82	23-MAR-82	21-MAR-82	28-MAR-82	13-AUG-80
( 206 )	( 207 )	( 208 )	( 209 )	( 210 )
SAMPLE NUMBER: 8647	8648	8649	8656	9501
PLANT NAME:	FUEL POOL	EVAPORATOR BOTTOMS	RESIN	RESIN
SAMPLE TYPE: REACTOR COOLANT	13-AUG-80	27-AUG-80	18-AUG-80	08-AUG-80
SAMPLING DATE: 13-AUG-80				
( 211 )	( 212 )	( 213 )	( 214 )	( 215 )
SAMPLE NUMBER: 9502	9503	9504	9505	9507
PLANT NAME:	REACTOR COOLANT	RESIN	REACTOR COOLANT	RESIN
SAMPLE TYPE: EVAPORATOR BOTTOMS	1980-1981 CO	10-OCT-81	1980-1981 CO	13-OCT-80
SAMPLING DATE: 11-AUG-80				
( 216 )	( 217 )	( 218 )	( 219 )	( 220 )
SAMPLE NUMBER: 9509	9510	8316	9122	9805
PLANT NAME:	RESIN	KEWAUNEE	KEWAUNEE	KEWAUNEE
SAMPLE TYPE: FUEL POOL	20-NOV-80	RESIN	RESIN	RESIN
SAMPLING DATE: 1980-1981 CO		01-MAY-80	16-JAN-81	09-MAR-82
( 221 )	( 222 )	( 223 )	( 224 )	( 225 )
SAMPLE NUMBER: 9213	9684	9685	9686	9687
PLANT NAME: YANKEE ROWE	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK
SAMPLE TYPE: REACTOR COOLANT	FILTER SLUDGE	RESIN	FILTER SLUDGE	FILTER SLUDGE
SAMPLING DATE: 26-JAN-81	19-NOV-81	08-DEC-81	21-OCT-81	08-DEC-81
( 226 )	( 227 )	( 228 )	( 229 )	( 230 )
SAMPLE NUMBER: 9688	9689	9690	9365	9366
PLANT NAME: OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK
SAMPLE TYPE: FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	EVAPORATOR BOTTOMS	FILTER SLUDGE
SAMPLING DATE: 08-DEC-81	08-DEC-81	08-DEC-81	18-MAR-81	25-MAR-81
( 231 )	( 232 )	( 233 )	( 234 )	( 235 )
SAMPLE NUMBER: 9367	9636	9637	9634	9635
PLANT NAME: OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK
SAMPLE TYPE: FILTER SLUDGE	FUEL POOL	RESIN	EVAPORATOR BOTTOMS	FILTER SLUDGE
SAMPLING DATE: 23-MAR-81	06-NOV-81	12-OCT-81	02-SEP-81	18-OCT-81
( 236 )	( 237 )	( 238 )	( 239 )	( 240 )
SAMPLE NUMBER: 6859	T096	T071	T072	T073
PLANT NAME: YANKEE ROWE	YANKEE ROWE	CALVERT CLIFFS	CALVERT CLIFFS	CALVERT CLIFFS
SAMPLE TYPE: FILTER CARTRIDGE	FILTER CARTRIDGE	RESIN	RESIN	RESIN
SAMPLING DATE: 22-AUG-77	20-MAY-77	26-OCT-76	26-OCT-76	26-OCT-76
( 241 )	( 242 )	( 243 )	( 244 )	( 245 )
SAMPLE NUMBER: T074	9117	9118	9119	8090
PLANT NAME: OINNA	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK
SAMPLE TYPE: RESIN	RESIN	EVAPORATOR BOTTOMS	FILTER SLUDGE	EVAPORATOR BOTTOMS
SAMPLING DATE: 16-OCT-76	08-SEP-80	27-OCT-80	22-OCT-80	25-SEP-79
( 246 )	( 247 )	( 248 )	( 249 )	( 250 )
SAMPLE NUMBER: 8091	8092	8093	8094	9846
PLANT NAME: OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK
SAMPLE TYPE: FILTER SLUDGE	RESIN	RESIN	RESIN	EVAPORATOR BOTTOMS
SAMPLING DATE: 25-SEP-79	28-SEP-79	28-SEP-79	28-SEP-79	19-MAR-82

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	( 251 )	( 252 )	( 253 )	( 254 )	( 255 )
SAMPLE NUMBER:	9847	9799	9800	9801	9802
PLANT NAME:	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK
SAMPLE TYPE:	FILTER SLUDGE	EVAPORATOR BOTTOMS	FILTER SLUDGE	EVAPORATOR BOTTOMS	FILTER SLUDGE
SAMPLING DATE:	22-MAR-82	03-DEC-81	25-JAN-82	21-JAN-82	20-JAN-82
	( 256 )	( 257 )	( 258 )	( 259 )	( 260 )
SAMPLE NUMBER:	9803	9804	7815	7816	7817
PLANT NAME:	OYSTER CREEK	OYSTER CREEK	DUANE ARNOLD	DUANE ARNOLD	DUANE ARNOLD
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	RESIN	RESIN	RESIN
SAMPLING DATE:	05-FEB-82	05-FEB-82	10-MAY-79	21-MAR-79	27-MAR-79
	( 261 )	( 262 )	( 263 )	( 264 )	( 265 )
SAMPLE NUMBER:	7818	7819	9329	9330	9331
PLANT NAME:	DUANE ARNOLD	DUANE ARNOLD	DUANE ARNOLD	DUANE ARNOLD	DUANE ARNOLD
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLING DATE:	30-APR-79	09-MAY-79	28-FEB-81	27-MAR-81	04-APR-81
	( 266 )	( 267 )	( 268 )	( 269 )	( 270 )
SAMPLE NUMBER:	9332	9333	9262	9263	9264
PLANT NAME:	DUANE ARNOLD	DUANE ARNOLD	FITZPATRICK	FITZPATRICK	FITZPATRICK
SAMPLE TYPE:	RESIN	RESIN	REACTOR COOLANT	EVAPORATOR BOTTOMS	RESIN
SAMPLING DATE:	31-MAR-81	03-APR-81	19-FEB-81	16-FEB-81	05-MAR-81
	( 271 )	( 272 )	( 273 )	( 274 )	( 275 )
SAMPLE NUMBER:	9854	9856	9857	8470	8471
PLANT NAME:	FITZPATRICK	FITZPATRICK	FITZPATRICK	GINNA	GINNA
SAMPLE TYPE:	EVAPORATOR BOTTOMS	RESIN	REACTOR COOLANT	RESIN	SMEAR
SAMPLING DATE:	05-APR-82	30-APR-82	25-MAR-82	01-MAR-80	01-MAR-80
	( 276 )	( 277 )	( 278 )	( 279 )	( 280 )
SAMPLE NUMBER:	8472	8473	9806	9807	9808
PLANT NAME:	GINNA	GINNA	BRUNSWICK	BRUNSWICK	BRUNSWICK
SAMPLE TYPE:	RESIN	EVAPORATOR BOTTOMS	RESIN	RESIN	RESIN
SAMPLING DATE:	01-MAR-80	01-MAR-80	04-MAR-82	04-MAR-82	04-MAR-82
	( 281 )	( 282 )	( 283 )	( 284 )	( 285 )
SAMPLE NUMBER:	9386	9604	9605	9606	9607
PLANT NAME:	QUAD CITIES	ZION	ZION	ZION	ZION
SAMPLE TYPE:	FILTER SLUDGE	RESIN	RESIN	RESIN	RESIN
SAMPLING DATE:	26-MAY-81	20-APR-81	24-APR-81	08-APR-81	04-JUN-81
	( 286 )	( 287 )	( 288 )	( 289 )	( 290 )
SAMPLE NUMBER:	9608	9609	9610	9611	9471
PLANT NAME:	ZION	ZION	ZION	ZION	ZION
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLING DATE:	15-JUN-81	11-AUG-81	19-AUG-81	08-JUL-81	22-JUL-80
	( 291 )	( 292 )	( 293 )	( 294 )	( 295 )
SAMPLE NUMBER:	9472	9473	9474	9475	9476
PLANT NAME:	ZION	ZION	ZION	ZION	ZION
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLING DATE:	28-JUL-80	23-JUN-80	08-OCT-80	16-OCT-80	14-DEC-80
	( 296 )	( 297 )	( 298 )	( 299 )	( 300 )
SAMPLE NUMBER:	9477	9478	9479	9480	9481
PLANT NAME:	ZION	ZION	ZION	ZION	ZION
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLING DATE:	02-JAN-81	23-OCT-80	20-OCT-80	04-FEB-81	20-MAR-81

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	( 301)	( 302)	( 303)	( 304)	( 305)
SAMPLE NUMBER:	9482	9483	9484	9485	9767
PLANT NAME:	ZION	ZION	ZION	ZION	ZION
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLING DATE:	24-JAN-81	17-JAN-81	23-FEB-81	15-MAR-81	22-OCT-81
	( 306)	( 307)	( 308)	( 309)	( 310)
SAMPLE NUMBER:	9768	9769	9770	9771	9772
PLANT NAME:	ZION	ZION	ZION	ZION	ZION
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLING DATE:	27-OCT-81	29-OCT-81	29-OCT-81	04-NOV-81	07-NOV-81
	( 311)	( 312)	( 313)	( 314)	( 315)
SAMPLE NUMBER:	9773	9774	9775	9776	9777
PLANT NAME:	ZION	ZION	ZION	ZION	ZION
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLING DATE:	10-NOV-81	17-NOV-81	11-DEC-81	15-DEC-81	15-DEC-81
	( 316)	( 317)	( 318)	( 319)	( 320)
SAMPLE NUMBER:	9778	9779	9245	9978	9980
PLANT NAME:	ZION	ZION	THREE MILE ISLAND	VERMONT YANKEE	VERMONT YANKEE
SAMPLE TYPE:	RESIN	RESIN	REACTOR COOLANT	REACTOR COOLANT	SMEAR
SAMPLING DATE:	21-DEC-81	30-DEC-81	27-MAR-79	10-OCT-82	10-OCT-82
	( 321)	( 322)	( 323)	( 324)	( 325)
SAMPLE NUMBER:	9981	9982	7293	6848	7292
PLANT NAME:	VERMONT YANKEE	VERMONT YANKEE	OCONEE		OCONEE
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	EVAPORATOR BOTTOMS	FILTER SLUDGE
SAMPLING DATE:	26-OCT-82	25-OCT-82	19-MAY-78	14-NOV-77	15-MAY-78
	( 326)	( 327)	( 328)	( 329)	( 330)
SAMPLE NUMBER:	6958	T041	T078	6960	7288
PLANT NAME:	OCONEE	YANKEE ROWE	GINNA	OCONEE	OCONEE
SAMPLE TYPE:	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	FILTER SLUDGE	FILTER SLUDGE
SAMPLING DATE:	15-DEC-77	23-JUN-76	14-OCT-76	20-DEC-77	16-MAY-78
	( 331)	( 332)	( 333)	( 334)	( 335)
SAMPLE NUMBER:	7285	6957	6961	7290	6738
PLANT NAME:	OCONEE	OCONEE	OCONEE	OCONEE	GINNA
SAMPLE TYPE:	EVAPORATOR BOTTOMS	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	EVAPORATOR BOTTOMS
SAMPLING DATE:	02-JUN-78	15-DEC-77	20-DEC-77	12-MAY-78	16-JAN-76
	( 336)	( 337)	( 338)	( 339)	( 340)
SAMPLE NUMBER:	7148	7066	T088	T077	7402
PLANT NAME:	GINNA		CALVERT CLIFFS	GINNA	GINNA
SAMPLE TYPE:	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	FILTER SLUDGE
SAMPLING DATE:	01-NOV-77	02-MAR-78	09-FEB-77	14-OCT-76	04-APR-78
	( 341)	( 342)	( 343)	( 344)	( 345)
SAMPLE NUMBER:	7149	T095	T040	6852	7162
PLANT NAME:	ZION	YANKEE ROWE	YANKEE ROWE	YANKEE ROWE	ZION
SAMPLE TYPE:	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS
SAMPLING DATE:	01-APR-78	13-MAY-77	23-JUN-76	22-DEC-77	13-APR-78
	( 346)	( 347)	( 348)	( 349)	( 350)
SAMPLE NUMBER:	7163	7604	7689	8014	7921
PLANT NAME:	ZION	OCONEE	OCONEE	OCONEE	OCONEE
SAMPLE TYPE:	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS
SAMPLING DATE:	08-APR-78	04-JUL-78	28-NOV-78	19-FEB-79	17-APR-79

SAMPLE NUMBER:	7919 ( 351)	7399 ( 352)	7188 ( 353)	7606 ( 354)	8021 ( 355)
PLANT NAME:	OCONEE	GINNA	YANKEE ROWE	YANKEE ROWE	YANKEE ROWE
SAMPLE TYPE:	EVAPORATOR BOTTOMS	FILTER SLUDGE	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS
SAMPLING DATE:	14-MAY-79	04-APR-78	16-MAY-78	08-NOV-78	11-APR-79
SAMPLE NUMBER:	7451 ( 356)	7595 ( 357)	7445 ( 358)	10007 ( 359)	10008 ( 360)
PLANT NAME:			CONNECTICUT YANKEE	MAINE YANKEE	MAINE YANKEE
SAMPLE TYPE:	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	DRY ACTIVE WASTE	REACTOR COOLANT
SAMPLING DATE:	10-JUL-78	12-SEP-78	18-JUL-78	27-DEC-82	27-DEC-82
SAMPLE NUMBER:	10010 ( 361)	10011 ( 362)	7153 ( 363)	7154 ( 364)	6841 ( 365)
PLANT NAME:	MAINE YANKEE	MAINE YANKEE	ZION	ZION	
SAMPLE TYPE:	EVAPORATOR BOTTOMS	SMEAR	RESIN	RESIN	EVAPORATOR BOTTOMS
SAMPLING DATE:	20-DEC-82	19-JAN-83	07-JAN-78	09-JAN-78	02-DEC-77
SAMPLE NUMBER:	7077 ( 366)	T042 ( 367)	6858 ( 368)	T079 ( 369)	6959 ( 370)
PLANT NAME:		YANKEE ROWE	YANKEE ROWE	GINNA	OCONEE
SAMPLE TYPE:	EVAPORATOR BOTTOMS	FILTER CARTRIDGE	FILTER CARTRIDGE	FILTER CARTRIDGE	RESIN
SAMPLING DATE:	02-MAR-78	23-JUN-76	01-DEC-77	29-JAN-77	21-DEC-77
SAMPLE NUMBER:	7287 ( 371)	T034 ( 372)	T075 ( 373)	T080 ( 374)	T035 ( 375)
PLANT NAME:	OCONEE	GINNA	GINNA	GINNA	GINNA
SAMPLE TYPE:	RESIN	FILTER CARTRIDGE	FILTER CARTRIDGE	RESIN	RESIN
SAMPLING DATE:	19-MAY-78	16-JAN-76	16-OCT-76	15-JAN-77	28-JUL-76
SAMPLE NUMBER:	7158 ( 376)	7147 ( 377)	7157 ( 378)	7186 ( 379)	7065 ( 380)
PLANT NAME:	GINNA	GINNA	GINNA	GINNA	
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLING DATE:	03-NOV-77	10-FEB-78	10-FEB-78	24-JAN-78	02-MAR-78
SAMPLE NUMBER:	6846 ( 381)	6844 ( 382)	T097 ( 383)	T043 ( 384)	6854 ( 385)
PLANT NAME:			YANKEE ROWE	YANKEE ROWE	YANKEE ROWE
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLING DATE:	21-NOV-77	07-NOV-77	11-MAY-77	23-JUL-76	08-AUG-75
SAMPLE NUMBER:	7439 ( 386)	7591 ( 387)	7593 ( 388)	7592 ( 389)	8003 ( 390)
PLANT NAME:	CONNECTICUT YANKEE	CONNECTICUT YANKEE	CONNECTICUT YANKEE	CONNECTICUT YANKEE	CONNECTICUT YANKEE
SAMPLE TYPE:	RESIN	RESIN	RESIN	REACTOR COOLANT	RESIN
SAMPLING DATE:	18-JUL-78	23-OCT-78	11-OCT-78	24-OCT-78	06-MAR-79
SAMPLE NUMBER:	7444 ( 391)	7697 ( 392)	8037 ( 393)	7696 ( 394)	8029 ( 395)
PLANT NAME:					
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLING DATE:	28-JUN-78	20-DEC-78	07-MAR-79	20-DEC-78	07-MAR-79
SAMPLE NUMBER:	7447 ( 396)	7922 ( 397)	7602 ( 398)	7692 ( 399)	7693 ( 400)
PLANT NAME:		OCONEE	OCONEE	OCONEE	OCONEE
SAMPLE TYPE:	RESIN	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE

	( 401 )	( 402 )	( 403 )	( 404 )	( 405 )
SAMPLE NUMBER:	7685	8016	7598	7684	7691
PLANT NAME:	OCONEE	OCONEE	OCONEE	OCONEE	OCONEE
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	RESIN
SAMPLING DATE:	10-DEC-78	27-FEB-79	06-JUL-78	19-OCT-78	28-NOV-78
	( 406 )	( 407 )	( 408 )	( 409 )	( 410 )
SAMPLE NUMBER:	8015	8017	7920	8020	7918
PLANT NAME:	OCONEE	OCONEE	OCONEE	OCONEE	OCONEE
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE
SAMPLING DATE:	05-FEB-79	19-FEB-79	11-APR-79	21-FEB-79	18-APR-79
	( 411 )	( 412 )	( 413 )	( 414 )	( 415 )
SAMPLE NUMBER:	7923	7586	7676	7583	8030
PLANT NAME:	OCONEE	OCONEE	OCONEE		
SAMPLE TYPE:	FILTER SLUDGE	RESIN	RESIN	RESIN	RESIN
SAMPLING DATE:	19-APR-79	14-JUL-78	02-DEC-79	30-AUG-78	07-MAR-79
	( 416 )	( 417 )	( 418 )	( 419 )	( 420 )
SAMPLE NUMBER:	7455	7677	8038	8028	8018
PLANT NAME:					OCONEE
SAMPLE TYPE:	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	FILTER SLUDGE
SAMPLING DATE:	29-JUN-78	08-JAN-79	13-MAR-79	14-MAR-79	19-FEB-79
	( 421 )	( 422 )	( 423 )	( 424 )	( 425 )
SAMPLE NUMBER:	7925	7926	7600	7683	8019
PLANT NAME:	OCONEE	OCONEE	OCONEE	OCONEE	OCONEE
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE
SAMPLING DATE:	17-APR-79	16-APR-79	14-JUL-78	29-NOV-78	05-MAR-79
	( 426 )	( 427 )	( 428 )	( 429 )	( 430 )
SAMPLE NUMBER:	7397	7398	7495	7605	8001
PLANT NAME:	GINNA	GINNA	YANKEE ROWE	YANKEE ROWE	YANKEE ROWE
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	RESIN	RESIN	RESIN
SAMPLING DATE:	04-APR-78	04-APR-78	12-MAY-78	12-SEP-78	06-FEB-79
	( 431 )	( 432 )	( 433 )	( 434 )	( 435 )
SAMPLE NUMBER:	7594	7187	T102	6850	T081
PLANT NAME:	YANKEE ROWE	GINNA	GINNA		CALVERT CLIFFS
SAMPLE TYPE:	FILTER CARTRIDGE	RESIN	FILTER CARTRIDGE	RESIN	SMEAR
SAMPLING DATE:	18-JAN-78	24-JAN-78	07-SEP-77	16-NOV-77	18-JAN-77
	( 436 )	( 437 )	( 438 )	( 439 )	( 440 )
SAMPLE NUMBER:	T082	T083	T084	6727	7198
PLANT NAME:	CALVERT CLIFFS	CALVERT CLIFFS	CALVERT CLIFFS	GINNA	SURRY
SAMPLE TYPE:	SMEAR	SMEAR	SMEAR	SMEAR	CRUD
SAMPLING DATE:	10-FEB-77	10-FEB-77	18-JAN-77	08-JUL-77	12-MAY-78
	( 441 )	( 442 )	( 443 )	( 444 )	( 445 )
SAMPLE NUMBER:	7196	T044	T045	7388	8067
PLANT NAME:	SURRY	YANKEE ROWE	YANKEE ROWE	GINNA	YANKEE ROWE
SAMPLE TYPE:	CRUD	CRUD	CRUD	CRUD	SMEAR
SAMPLING DATE:	12-MAY-78	20-JUL-76	26-JUL-76	01-APR-78	05-DEC-78
	( 446 )	( 447 )	( 448 )	( 449 )	( 450 )
SAMPLE NUMBER:	7694	7893	7894	C001	C002
PLANT NAME:		CONNECTICUT YANKEE	CONNECTICUT YANKEE	CONNECTICUT YANKEE	CONNECTICUT YANKEE
SAMPLE TYPE:	EVAPORATOR BOTTOMS	FUEL POOL	FUEL POOL	SMEAR	SMEAR
SAMPLING DATE:	10-JAN-79	07-MAR-79	07-MAR-79	16-FEB-79	20-FEB-79



	( 451 )	( 452 )	( 453 )	( 454 )	( 455 )
SAMPLE NUMBER:	10090	10083	10082	10056	10057
PLANT NAME:					
SAMPLE TYPE:	ABRASIVE	SMEAR	SMEAR	RESIN	RESIN
SAMPLING DATE:	16-APR-83	07-APR-83	07-APR-83	12-OCT-82	13-OCT-82
	( 456 )	( 457 )	( 458 )	( 459 )	( 460 )
SAMPLE NUMBER:	10058	10059	10062	10063	10064
PLANT NAME:					
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	RESIN	REACTOR COOLANT	RESIN
SAMPLING DATE:	20-OCT-82	20-OCT-82	18-APR-82	17-DEC-82	19-DEC-82
	( 461 )	( 462 )	( 463 )	( 464 )	( 465 )
SAMPLE NUMBER:	10065	10066	10013	10014	10015
PLANT NAME:					
SAMPLE TYPE:	EVAPORATOR BOTTOMS	RESIN	ABRASIVE	ABRASIVE	ABRASIVE
SAMPLING DATE:	05-JAN-83	20-JAN-83	03-DEC-82	03-DEC-82	08-DEC-82
	( 466 )	( 467 )	( 468 )	( 469 )	( 470 )
SAMPLE NUMBER:	10016	10029	10030	10031	9997
PLANT NAME:		OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	DUANE ARNOLD
SAMPLE TYPE:	ABRASIVE	FILTER SLUDGE	FILTER SLUDGE	EVAPORATOR BOTTOMS	RESIN
SAMPLING DATE:	08-DEC-82	03-JAN-83	03-JAN-83	10-JAN-83	13-NOV-82
	( 471 )	( 472 )	( 473 )	( 474 )	( 475 )
SAMPLE NUMBER:	9998	9999	10000	10001	9991
PLANT NAME:	DUANE ARNOLD	DUANE ARNOLD	DUANE ARNOLD	DUANE ARNOLD	INDIAN POINT
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	REACTOR COOLANT
SAMPLING DATE:	11-DEC-82	15-DEC-82	17-DEC-82	20-DEC-82	28-DEC-82
	( 476 )	( 477 )	( 478 )	( 479 )	( 480 )
SAMPLE NUMBER:	9992	10003	10004	10005	10006
PLANT NAME:	INDIAN POINT				
SAMPLE TYPE:	REACTOR COOLANT	RESIN	EVAPORATOR BOTTOMS	FILTER SLUDGE	FILTER SLUDGE
SAMPLING DATE:	28-DEC-82	13-JAN-83	13-JAN-83	13-JAN-83	13-JAN-83
	( 481 )	( 482 )	( 483 )	( 484 )	( 485 )
SAMPLE NUMBER:	9993	9994	9995	9974	9973
PLANT NAME:	INDIAN POINT	INDIAN POINT	INDIAN POINT	OCONEE	OCONEE
SAMPLE TYPE:	SMEAR	REACTOR COOLANT	REACTOR COOLANT	FILTER CARTRIDGE	FILTER CARTRIDGE
SAMPLING DATE:	22-JUL-82	27-MAR-82	28-MAR-82	19-NOV-82	19-NOV-82
	( 486 )	( 487 )	( 488 )	( 489 )	( 490 )
SAMPLE NUMBER:	10084	10085	10086	10087	10088
PLANT NAME:					
SAMPLE TYPE:	FILTER SLUDGE	RESIN	EVAPORATOR BOTTOMS	FILTER SLUDGE	REACTOR COOLANT
SAMPLING DATE:	14-APR-83	14-APR-83	14-APR-83	14-APR-83	31-MAR-83
	( 491 )	( 492 )	( 493 )	( 494 )	( 495 )
SAMPLE NUMBER:	10026	10027	10012	9960	9969
PLANT NAME:			V C SUMMER	V C SUMMER	OYSTER CREEK
SAMPLE TYPE:	DRY ACTIVE WASTE	DRY ACTIVE WASTE	REACTOR COOLANT	REACTOR COOLANT	EVAPORATOR BOTTOMS
SAMPLING DATE:	15-FEB-83	15-FEB-83	20-JAN-83	09-NOV-82	10-OCT-82
	( 496 )	( 497 )	( 498 )	( 499 )	( 500 )
SAMPLE NUMBER:	9970	9963	9922	10124	10123
PLANT NAME:	OYSTER CREEK	TROJAN	MONTICELLO	OYSTER CREEK	OYSTER CREEK
SAMPLE TYPE:	FILTER SLUDGE	FILTER	FUEL POOL	REACTOR COOLANT	RESIN
SAMPLING DATE:	25-OCT-82	22-NOV-82	02-AUG-82	25-APR-83	08-APR-83

	( 501)	( 502)	( 503)	( 504)	( 505)
SAMPLE NUMBER:	10143	10144	10145	10146	10106
PLANT NAME:	FARLEY	FARLEY	FARLEY	FARLEY	MCGUIRE
SAMPLE TYPE:	CHARCOAL	CHARCOAL	RESIN	SMEAR	RESIN
SAMPLING DATE:	25-MAR-83	25-MAR-83	25-MAR-83	25-MAR-83	06-APR-83
	( 506)	( 507)	( 508)	( 509)	( 510)
SAMPLE NUMBER:	10121	10125	10126	10127	10128
PLANT NAME:	NORTH ANNA				
SAMPLE TYPE:	REACTOR COOLANT	SMEAR	SMEAR	SMEAR	SMEAR
SAMPLING DATE:	09-MAY-83	27-MAY-83	27-MAY-83	27-MAY-83	27-MAY-83
	( 511)	( 512)	( 513)	( 514)	( 515)
SAMPLE NUMBER:	10129	10130	10131	10132	10133
PLANT NAME:					
SAMPLE TYPE:	SMEAR	SMEAR	REACTOR COOLANT	FUEL POOL	FILTER SLUDGE
SAMPLING DATE:	27-MAY-83	27-MAY-83	24-MAY-83	24-MAY-83	24-MAY-83
	( 516)	( 517)	( 518)	( 519)	( 520)
SAMPLE NUMBER:	10134	10135	10136	10072	10079
PLANT NAME:				TROJAN	MCGUIRE
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	REACTOR COOLANT	EVAPORATOR BOTTOMS
SAMPLING DATE:	24-MAY-83	24-MAY-83	24-MAY-83	17-FEB-83	30-MAR-83
	( 521)	( 522)	( 523)	( 524)	( 525)
SAMPLE NUMBER:	10074	10075	10076	10077	10078
PLANT NAME:	SURRY	SURRY	SURRY	SURRY	SURRY
SAMPLE TYPE:	FILTER CARTRIDGE	FUEL POOL	FILTER CARTRIDGE	FILTER CARTRIDGE	FILTER
SAMPLING DATE:	30-MAR-83	30-MAR-83	30-MAR-83	30-MAR-83	30-MAR-83
	( 526)	( 527)	( 528)	( 529)	( 530)
SAMPLE NUMBER:	10108	10109	10110	10111	10112
PLANT NAME:	GINNA	GINNA	GINNA	GINNA	GINNA
SAMPLE TYPE:	RESIN	RESIN	FUEL POOL	FUEL POOL	REACTOR COOLANT
SAMPLING DATE:	03-JUN-83	06-JUN-83	13-APR-83	13-APR-83	14-APR-83
	( 531)	( 532)	( 533)	( 534)	( 535)
SAMPLE NUMBER:	10113	10114	10115	10116	10117
PLANT NAME:	GINNA	GINNA	GINNA	GINNA	GINNA
SAMPLE TYPE:	RESIN	RESIN	FILTER CARTRIDGE	SMEAR	SMEAR
SAMPLING DATE:	25-MAR-83	27-MAR-83	21-APR-83	19-APR-83	19-APR-83
	( 536)	( 537)	( 538)	( 539)	( 540)
SAMPLE NUMBER:	10118	10138	10139	10140	10137
PLANT NAME:	GINNA	MAINE YANKEE	MAINE YANKEE	MAINE YANKEE	MAINE YANKEE
SAMPLE TYPE:	SMEAR	EVAPORATOR BOTTOMS	SMEAR	CRUD	REACTOR COOLANT
SAMPLING DATE:	19-APR-83	19-MAY-83	19-MAY-83	19-MAY-83	19-MAY-83
	( 541)	( 542)	( 543)	( 544)	( 545)
SAMPLE NUMBER:	10149	10150	10151	10152	10153
PLANT NAME:	MCGUIRE	MCGUIRE	MCGUIRE	MCGUIRE	MCGUIRE
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	FUEL POOL	RESIN	EVAPORATOR BOTTOMS
SAMPLING DATE:	14-JUN-83	14-JUN-83	14-JUN-83	14-JUN-83	14-JUN-83
	( 546)	( 547)	( 548)	( 549)	( 550)
SAMPLE NUMBER:	10155	10156	10157	10158	10159
PLANT NAME:	UCONEE	UCONEE	UCONEE	UCONEE	UCONEE
SAMPLE TYPE:	EVAPORATOR BOTTOMS	FILTER SLUDGE	RESIN	REACTOR COOLANT	FILTER CARTRIDGE
SAMPLING DATE:	25-APR-83	14-MAY-83	23-MAY-83	23-MAY-83	31-MAY-83

	( 551 )	( 552 )	( 553 )	( 554 )	( 555 )
SAMPLE NUMBER:	10161	10168	10162	10162	10164
PLANT NAME:	OCONEE	OYSTER CREEK	BRUNSWICK	BRUNSWICK	BRUNSWICK
SAMPLE TYPE:	SMEAR	RESIN	REACTOR COOLANT	REACTOR COOLANT	RESIN
SAMPLING DATE:	23-MAY-83	22-JUN-83	28-JUN-83	22-JUN-83	28-JUN-83
	( 556 )	( 557 )	( 558 )	( 559 )	( 560 )
SAMPLE NUMBER:	10165	10166	10167	10169	10170
PLANT NAME:	BRUNSWICK	BRUNSWICK	BRUNSWICK	MCQUIRE	MCQUIRE
SAMPLE TYPE:	DRY ACTIVE WASTE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE
SAMPLING DATE:	28-JUN-83	28-JUN-83	28-JUN-83	24-JUN-83	21-JUN-83
	( 561 )	( 562 )	( 563 )	( 564 )	( 565 )
SAMPLE NUMBER:	10172	10171	10174	10175	10176
PLANT NAME:	H. B. ROBINSON	H. B. ROBINSON	H. B. ROBINSON	H. B. ROBINSON	H. B. ROBINSON
SAMPLE TYPE:	FUEL POOL	REACTOR COOLANT	FUEL POOL	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS
SAMPLING DATE:	09-JUN-83	08-JUN-83	10-JUN-83	22-APR-83	08-JUN-83
	( 566 )	( 567 )	( 568 )	( 569 )	( 570 )
SAMPLE NUMBER:	10177	10178	10160	10156	10186
PLANT NAME:	H. B. ROBINSON	H. B. ROBINSON	OCONEE	OCONEE	VERMONT YANKEE
SAMPLE TYPE:	EVAPORATOR BOTTOMS	DRY ACTIVE WASTE	DRY ACTIVE WASTE	FILTER SLUDGE	RESIN
SAMPLING DATE:	22-APR-83	09-JUN-83	31-MAY-83	14-MAY-83	19-JUL-83
	( 571 )	( 572 )	( 573 )	( 574 )	( 575 )
SAMPLE NUMBER:	10185	10188	10189	10207	10208
PLANT NAME:	VERMONT YANKEE	VERMONT YANKEE	VERMONT YANKEE	NUCLEAR ONE	NUCLEAR ONE
SAMPLE TYPE:	REACTOR COOLANT	RESIN	DRY ACTIVE WASTE	RESIN	RESIN
SAMPLING DATE:	29-JUN-83	19-JUL-83	19-JUL-83	14-JUL-83	09-MAY-83
	( 576 )	( 577 )	( 578 )	( 579 )	( 580 )
SAMPLE NUMBER:	10209	10206	10205	10212	10213
PLANT NAME:	NUCLEAR ONE	NUCLEAR ONE	NUCLEAR ONE	NUCLEAR ONE	NUCLEAR ONE
SAMPLE TYPE:	RESIN	REACTOR COOLANT	REACTOR COOLANT	DRY ACTIVE WASTE	DRY ACTIVE WASTE
SAMPLING DATE:	11-MAY-83	18-JUL-83	18-JUL-83	25-JUL-83	25-JUL-83
	( 581 )	( 582 )	( 583 )	( 584 )	( 585 )
SAMPLE NUMBER:	10214	10192	10193	10194	10195
PLANT NAME:	V. C. SUMMER	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLING DATE:	30-JUN-83	12-JUL-83	14-JUL-83	20-JUL-83	20-JUL-83
	( 586 )	( 587 )	( 588 )	( 589 )	( 590 )
SAMPLE NUMBER:	10200	10201	10202	10203	10204
PLANT NAME:	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK
SAMPLE TYPE:	RESIN	RESIN	RESIN	FILTER SLUDGE	DRY ACTIVE WASTE
SAMPLING DATE:	19-JUL-83	19-JUL-83	19-JUL-83	19-JUL-83	20-JUL-83
	( 591 )	( 592 )	( 593 )	( 594 )	( 595 )
SAMPLE NUMBER:	10248	10249	10250	10229	10246
PLANT NAME:	OCONEE	OCONEE	OCONEE	OYSTER CREEK	INDIAN POINT
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	FILTER CARTRIDGE	EVAPORATOR BOTTOMS	RESIN
SAMPLING DATE:	08-AUG-83	08-AUG-83	01-NOV-82	02-AUG-83	19-AUG-83
	( 596 )	( 597 )	( 598 )	( 599 )	( 600 )
SAMPLE NUMBER:	10247	10190	10191	10230	10231
PLANT NAME:	INDIAN POINT	OYSTER CREEK	OYSTER CREEK	FARLEY	FARLEY
SAMPLE TYPE:	DRY ACTIVE WASTE	FILTER SLUDGE	DRY ACTIVE WASTE	REACTOR COOLANT	RESIN
SAMPLING DATE:	19-AUG-83	05-JUL-83	20-JUL-83	15-JUN-83	08-AUG-83

	( 601 )	( 602 )	( 603 )	( 604 )	( 605 )
SAMPLE NUMBER:	10232	10233	10234	10235	10236
PLANT NAME:	FARLEY	FARLEY	FARLEY	FARLEY	FARLEY
SAMPLE TYPE:	DRY ACTIVE WASTE	FILTER SLUDGE	FILTER SLUDGE	FILTER CARTRIDGE	DRY ACTIVE WASTE
SAMPLING DATE:	02-AUG-83	15-AUG-83	10-AUG-83	03-AUG-83	02-AUG-83
	( 606 )	( 607 )	( 608 )	( 609 )	( 610 )
SAMPLE NUMBER:	10237	10238	10222	10225	10227
PLANT NAME:	FARLEY	FARLEY	V. C. SUMMER	V. C. SUMMER	V. C. SUMMER
SAMPLE TYPE:	RESIN	RESIN	REACTOR COOLANT	DRY ACTIVE WASTE	FILTER SLUDGE
SAMPLING DATE:	09-AUG-84	03-AUG-83	29-JUN-83	30-JUN-83	30-JUN-83
	( 611 )	( 612 )	( 613 )	( 614 )	( 615 )
SAMPLE NUMBER:	10259	10261	10262	10264	10265
PLANT NAME:	EDWIN HATCH	EDWIN HATCH			
SAMPLE TYPE:	REACTOR COOLANT	DRY ACTIVE WASTE	REACTOR COOLANT	RESIN	FILTER SLUDGE
SAMPLING DATE:	18-AUG-83	09-AUG-83	05-AUG-83	01-SEP-83	01-SEP-83
	( 616 )	( 617 )	( 618 )	( 619 )	( 620 )
SAMPLE NUMBER:	10266	10267	10268	10269	10270
PLANT NAME:	FITZPATRICK	FITZPATRICK	FITZPATRICK	FITZPATRICK	FITZPATRICK
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	RESIN	EVAPORATOR BOTTOMS
SAMPLING DATE:	26-JAN-83	02-FEB-83	09-FEB-83	10-FEB-83	10-JAN-83
	( 621 )	( 622 )	( 623 )	( 624 )	( 625 )
SAMPLE NUMBER:	10271	10273	10274	10285	10286
PLANT NAME:	FITZPATRICK	TROJAN	TROJAN	GINNA	GINNA
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	DRY ACTIVE WASTE	REACTOR COOLANT	RESIN
SAMPLING DATE:	02-FEB-83	29-AUG-83	12-SEP-83	31-AUG-83	27-SEP-83
	( 626 )	( 627 )	( 628 )	( 629 )	( 630 )
SAMPLE NUMBER:	10287	10289	10307	10308	10311
PLANT NAME:	GINNA	GINNA	NUCLEAR ONE	NUCLEAR ONE	NUCLEAR ONE
SAMPLE TYPE:	RESIN	DRY ACTIVE WASTE	REACTOR COOLANT	REACTOR COOLANT	RESIN
SAMPLING DATE:	27-SEP-83	27-SEP-83	26-SEP-83	27-SEP-83	26-SEP-83
	( 631 )	( 632 )	( 633 )	( 634 )	( 635 )
SAMPLE NUMBER:	10312	10313	10314	10293	10294
PLANT NAME:	NUCLEAR ONE	NUCLEAR ONE	NUCLEAR ONE		
SAMPLE TYPE:	RESIN	DRY ACTIVE WASTE	DRY ACTIVE WASTE	RESIN	RESIN
SAMPLING DATE:	25-JUL-83	27-SEP-83	27-SEP-83	21-SEP-83	21-SEP-83
	( 636 )	( 637 )	( 638 )	( 639 )	( 640 )
SAMPLE NUMBER:	10295	10296	10297	10298	10299
PLANT NAME:					
SAMPLE TYPE:	FILTER CARTRIDGE	RESIN	RESIN	FILTER CARTRIDGE	DRY ACTIVE WASTE
SAMPLING DATE:	12-SEP-83	20-SEP-83	20-SEP-83	21-SEP-83	21-SEP-83
	( 641 )	( 642 )	( 643 )	( 644 )	( 645 )
SAMPLE NUMBER:	10300	10318	10319	10320	10345
PLANT NAME:		QUAD CITIES	QUAD CITIES	QUAD CITIES	PEACH BOTTOM
SAMPLE TYPE:	DRY ACTIVE WASTE	RESIN	RESIN	DRY ACTIVE WASTE	REACTOR COOLANT
SAMPLING DATE:	21-SEP-83	25-AUG-83	26-AUG-83	26-AUG-83	30-SEP-83
	( 646 )	( 647 )	( 648 )	( 649 )	( 650 )
SAMPLE NUMBER:	10347	10348	10348	10390	10382
PLANT NAME:	PEACH BOTTOM	PEACH BOTTOM			DRESDEN
SAMPLE TYPE:	RESIN	DRY ACTIVE WASTE	REACTOR COOLANT	DRY ACTIVE WASTE	REACTOR COOLANT
SAMPLING DATE:	12-OCT-83	07-OCT-83	21-SEP-83	19-OCT-83	04-OCT-83

	( 651 )	( 652 )	( 653 )	( 654 )	( 655 )
SAMPLE NUMBER:	10384	10385	10386	10366	10364
PLANT NAME:	DRESDEN	DRESDEN	DRESDEN	V. C. SUMMER	V. C. SUMMER
SAMPLE TYPE:	RESIN	EVAPORATOR BOTTOMS	FILTER SLUDGE	DRY ACTIVE WASTE	REACTOR COOLANT
SAMPLING DATE:	15-SEP-83	16-SEP-83	05-SEP-83	18-OCT-83	12-SEP-83
	( 656 )	( 657 )	( 658 )	( 659 )	( 660 )
SAMPLE NUMBER:	10370	10374	10375	10377	10442
PLANT NAME:	V. C. SUMMER	V. C. SUMMER	V. C. SUMMER	V. C. SUMMER	DRESDEN
SAMPLE TYPE:	FILTER CARTRIDGE	RESIN	REACTOR COOLANT	RESIN	DRY ACTIVE WASTE
SAMPLING DATE:	21-SEP-83	30-SEP-83	22-SEP-83	04-OCT-83	25-OCT-83
	( 661 )	( 662 )	( 663 )	( 664 )	( 665 )
SAMPLE NUMBER:	10399	10400	10401	10402	10403
PLANT NAME:	ROBINSON	ROBINSON	ROBINSON	ROBINSON	ROBINSON
SAMPLE TYPE:	RESIN	RESIN	FILTER	FILTER	FILTER
SAMPLING DATE:	24-OCT-83	24-OCT-83	04-AUG-83	04-AUG-83	04-AUG-83
	( 666 )	( 667 )	( 668 )	( 669 )	( 670 )
SAMPLE NUMBER:	10404	10405	10460	10461	10462
PLANT NAME:	ROBINSON	ROBINSON	ROBINSON	ROBINSON	ROBINSON
SAMPLE TYPE:	FILTER	DRY ACTIVE WASTE	FUEL POOL	FUEL POOL	FUEL POOL
SAMPLING DATE:	23-JUN-83	19-AUG-83	23-JUN-83	30-SEP-83	15-OCT-83
	( 671 )	( 672 )	( 673 )	( 674 )	( 675 )
SAMPLE NUMBER:	10466	10467	10468	10457	10458
PLANT NAME:	ROBINSON	ROBINSON	ROBINSON	ROBINSON	ROBINSON
SAMPLE TYPE:	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	REACTOR COOLANT	REACTOR COOLANT
SAMPLING DATE:	19-AUG-83	23-SEP-83	05-OCT-83	29-SEP-83	01-OCT-83
	( 676 )	( 677 )	( 678 )	( 679 )	( 680 )
SAMPLE NUMBER:	10459	10472	10473	10476	10407
PLANT NAME:	ROBINSON	ROBINSON	ROBINSON	ROBINSON	BRUNSWICK
SAMPLE TYPE:	REACTOR COOLANT	FILTER CARTRIDGE	FILTER CARTRIDGE	DRY ACTIVE WASTE	FILTER SLUDGE
SAMPLING DATE:	12-OCT-83	30-SEP-83	15-OCT-83	20-OCT-83	25-OCT-83
	( 681 )	( 682 )	( 683 )	( 684 )	( 685 )
SAMPLE NUMBER:	10408	10409	10410	10412	10414
PLANT NAME:	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	REACTOR COOLANT	REACTOR COOLANT	DRY ACTIVE WASTE
SAMPLING DATE:	25-OCT-83	25-OCT-83	25-OCT-83	25-OCT-83	25-OCT-83
	( 686 )	( 687 )	( 688 )	( 689 )	( 690 )
SAMPLE NUMBER:	10415	10416	10417	10418	10419
PLANT NAME:	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK
SAMPLE TYPE:	RESIN	FILTER SLUDGE	RESIN	RESIN	FILTER SLUDGE
SAMPLING DATE:	25-OCT-83	25-OCT-83	25-OCT-83	25-OCT-83	25-OCT-83
	( 691 )	( 692 )	( 693 )	( 694 )	( 695 )
SAMPLE NUMBER:	10420	10422	10424	10425	10426
PLANT NAME:	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	DRY ACTIVE WASTE	RESIN	FILTER SLUDGE
SAMPLING DATE:	25-OCT-83	25-OCT-83	25-OCT-83	25-OCT-83	25-OCT-83
	( 696 )	( 697 )	( 698 )	( 699 )	( 700 )
SAMPLE NUMBER:	10427	10428	10429	10431	10433
PLANT NAME:	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	REACTOR COOLANT	REACTOR COOLANT	DRY ACTIVE WASTE
SAMPLING DATE:	25-OCT-83	25-OCT-83	25-OCT-83	25-OCT-83	25-OCT-83

	( 701 )	( 702 )	( 703 )	( 704 )	( 705 )
SAMPLE NUMBER:	10434	10477	10478	10479	10494
PLANT NAME:	BRUNSWICK	MONTICELLO	MONTICELLO	MONTICELLO	PILGRIM
SAMPLE TYPE:	RESIN	REACTOR COOLANT	FILTER SLUDGE	FILTER SLUDGE	RESIN
SAMPLING DATE:	25-OCT-83	03-OCT-83	29-SEP-83	29-SEP-83	01-NOV-83
	( 706 )	( 707 )	( 708 )	( 709 )	( 710 )
SAMPLE NUMBER:	10495	10496	10497	10498	10499
PLANT NAME:	PILGRIM	PILGRIM	PILGRIM	PILGRIM	PILGRIM
SAMPLE TYPE:	RESIN	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	DRY ACTIVE WASTE
SAMPLING DATE:	01-NOV-83	01-NOV-83	01-NOV-83	01-NOV-83	01-NOV-83
	( 711 )	( 712 )	( 713 )	( 714 )	( 715 )
SAMPLE NUMBER:	10500	10482	10484	10485	10486
PLANT NAME:	PILGRIM				
SAMPLE TYPE:	DRY ACTIVE WASTE	REACTOR COOLANT	RESIN	FILTER SLUDGE	EVAPORATOR BOTTOMS
SAMPLING DATE:	01-NOV-83	25-OCT-83	25-OCT-83	26-OCT-83	26-OCT-83
	( 716 )	( 717 )	( 718 )	( 719 )	( 720 )
SAMPLE NUMBER:	10487	10488	10507	10508	10509
PLANT NAME:			PEACH BOTTOM	PEACH BOTTOM	PEACH BOTTOM
SAMPLE TYPE:	FILTER SLUDGE	DRY ACTIVE WASTE	RESIN	FILTER SLUDGE	FILTER SLUDGE
SAMPLING DATE:	26-OCT-83	28-OCT-83	12-OCT-83	30-SEP-83	16-JUL-83
	( 721 )	( 722 )	( 723 )	( 724 )	( 725 )
SAMPLE NUMBER:	10510	10511	10519	10536	10537
PLANT NAME:	PEACH BOTTOM	PEACH BOTTOM	PEACH BOTTOM	DRESDEN	DRESDEN
SAMPLE TYPE:	FILTER SLUDGE	RESIN	DRY ACTIVE WASTE	RESIN	EVAPORATOR BOTTOMS
SAMPLING DATE:	14-JUL-83	30-MAY-83	27-OCT-83	15-SEP-83	11-SEP-83
	( 726 )	( 727 )	( 728 )	( 729 )	( 730 )
SAMPLE NUMBER:	10538	10539	10579	10582	10258
PLANT NAME:	DRESDEN	DRESDEN	QUAD CITIES	QUAD CITIES	MCQUIRE
SAMPLE TYPE:	FILTER SLUDGE	DRY ACTIVE WASTE	REACTOR COOLANT	FILTER SLUDGE	DRY ACTIVE WASTE
SAMPLING DATE:	20-AUG-83	16-NOV-83	13-OCT-83	07-DEC-83	30-MAR-83
	( 731 )	( 732 )	( 733 )	( 734 )	( 735 )
SAMPLE NUMBER:	10284	10275	10276	10277	10278
PLANT NAME:	MCQUIRE	OCONEE	OCONEE	OCONEE	OCONEE
SAMPLE TYPE:	RESIN	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	EVAPORATOR BOTTOMS
SAMPLING DATE:	12-SEP-83	23-AUG-83	23-AUG-83	23-AUG-83	25-AUG-83
	( 736 )	( 737 )	( 738 )	( 739 )	( 740 )
SAMPLE NUMBER:	10279	10280	10281	10282	10283
PLANT NAME:	OCONEE	OCONEE	OCONEE	OCONEE	OCONEE
SAMPLE TYPE:	FILTER SLUDGE	DRY ACTIVE WASTE	FILTER CARTRIDGE	FILTER CARTRIDGE	DRY ACTIVE WASTE
SAMPLING DATE:	25-AUG-83	29-AUG-83	12-SEP-83	12-SEP-83	12-SEP-83
	( 741 )	( 742 )	( 743 )	( 744 )	( 745 )
SAMPLE NUMBER:	10290	10304	10305	10303	10306
PLANT NAME:	TROJAN	YANKEE ROWE	YANKEE ROWE	YANKEE ROWE	YANKEE ROWE
SAMPLE TYPE:	RESIN	FILTER CARTRIDGE	RESIN	REACTOR COOLANT	EVAPORATOR BOTTOMS
SAMPLING DATE:	12-SEP-83	26-SEP-83	07-SEP-83	01-MAY-83	05-JUL-83
	( 746 )	( 747 )	( 748 )	( 749 )	( 750 )
SAMPLE NUMBER:	10301	10302	10406	10387	10329
PLANT NAME:	KEWANEE	KEWANEE	NORTH ANNA	MAINE YANKEE	TROJAN
SAMPLE TYPE:	RESIN	RESIN	FILTER CARTRIDGE	RESIN	FUEL POOL
SAMPLING DATE:	29-SEP-83	29-SEP-83	24-OCT-83	29-SEP-83	12-OCT-83

	( 751)	( 752)	( 753)	( 754)	( 755)
SAMPLE NUMBER:	10330	10335	10336	10337	10340
PLANT NAME:					
SAMPLE TYPE:	RESIN	RESIN	RESIN	EVAPORATOR BOTTOMS	RESIN
SAMPLING DATE:	09-OCT-83	30-APR-83	02-MAY-83	04-MAY-83	24-AUG-83
	( 756)	( 757)	( 758)	( 759)	( 760)
SAMPLE NUMBER:	10349	10350	10351	10352	10353
PLANT NAME:	NORTH ANNA	NORTH ANNA	NORTH ANNA	NORTH ANNA	NORTH ANNA
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	FILTER SLUDGE
SAMPLING DATE:	18-OCT-83	18-OCT-83	18-OCT-83	18-OCT-83	18-OCT-83
	( 761)	( 762)	( 763)	( 764)	( 765)
SAMPLE NUMBER:	10354	10355	10356	10357	10358
PLANT NAME:	NORTH ANNA	NORTH ANNA	NORTH ANNA	NORTH ANNA	NORTH ANNA
SAMPLE TYPE:	DRY ACTIVE WASTE	DRY ACTIVE WASTE	DRY ACTIVE WASTE	DRY ACTIVE WASTE	DRY ACTIVE WASTE
SAMPLING DATE:	18-OCT-83	18-OCT-83	18-OCT-83	18-OCT-83	18-OCT-83
	( 766)	( 767)	( 768)	( 769)	( 770)
SAMPLE NUMBER:	10359	10360	10361	10362	10363
PLANT NAME:	NORTH ANNA	NORTH ANNA	NORTH ANNA	NORTH ANNA	NORTH ANNA
SAMPLE TYPE:	DRY ACTIVE WASTE	DRY ACTIVE WASTE	DRY ACTIVE WASTE	DRY ACTIVE WASTE	DRY ACTIVE WASTE
SAMPLING DATE:	18-OCT-83	18-OCT-83	18-OCT-83	18-OCT-83	18-OCT-83
	( 771)	( 772)	( 773)	( 774)	( 775)
SAMPLE NUMBER:	10391	10392	10393	10394	10395
PLANT NAME:	SURRY	SURRY	SURRY	SURRY	SURRY
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE
SAMPLING DATE:	13-OCT-83	17-OCT-83	17-OCT-83	17-OCT-83	17 OCT 83
	( 776)	( 777)	( 778)	( 779)	( 780)
SAMPLE NUMBER:	10396	10397	10398	10435	10436
PLANT NAME:	SURRY	SURRY	SURRY	MCGUIRE	MCGUIRE
SAMPLE TYPE:	FILTER SLUDGE	DRY ACTIVE WASTE	DRY ACTIVE WASTE	DRY ACTIVE WASTE	DRY ACTIVE WASTE
SAMPLING DATE:	17-OCT-83	20-OCT-83	20-OCT-83	03-AUG-83	03-AUG-83
	( 781)	( 782)	( 783)	( 784)	( 785)
SAMPLE NUMBER:	10437	10438	10439	10440	10441
PLANT NAME:	MCGUIRE	FARLEY	FARLEY	FARLEY	FARLEY
SAMPLE TYPE:	DRY ACTIVE WASTE	FILTER CARTRIDGE	FILTER CARTRIDGE	DRY ACTIVE WASTE	DRY ACTIVE WASTE
SAMPLING DATE:	03-AUG-83	31-OCT-83	31-OCT-83	31-OCT-83	31-OCT-83
	( 786)	( 787)	( 788)	( 789)	( 790)
SAMPLE NUMBER:	10443	10444	10445	10446	10447
PLANT NAME:	SURRY	SURRY	SURRY	SURRY	SURRY
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLING DATE:	01-NOV-83	01-NOV-83	01-NOV-83	01-NOV-83	01-NOV-83
	( 791)	( 792)	( 793)	( 794)	( 795)
SAMPLE NUMBER:	10448	10449	10450	10451	10452
PLANT NAME:	SURRY	DUANE ARNOLD	DUANE ARNOLD	DUANE ARNOLD	DUANE ARNOLD
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLING DATE:	01-NOV-83	01-JUN-83	15-OCT-83	07-OCT-83	17-OCT-83
	( 796)	( 797)	( 798)	( 799)	( 800)
SAMPLE NUMBER:	10453	10454	10455	10556	10490
PLANT NAME:	DUANE ARNOLD	DUANE ARNOLD	DUANE ARNOLD	SURRY	PILGRIM
SAMPLE TYPE:	FILTER CARTRIDGE	DRY ACTIVE WASTE	REACTOR COOLANT	RESIN	REACTOR COOLANT
SAMPLING DATE:	27-OCT-83	04-NOV-83	27-OCT-83	02-NOV-83	01-NOV-83

SAMPLE NUMBER:	( 801 ) 10492	( 802 ) 10493	( 803 ) 10501	( 804 ) 10503	( 805 ) 10520
PLANT NAME:	PILGRIM	PILGRIM	NORTH ANNA	NORTH ANNA	REACTOR COOLANT
SAMPLE TYPE:	RESIN	RESIN	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLING DATE:	01-NOV-83	01-NOV-83	16-NOV-83	16-NOV-83	19-JAN-83
SAMPLE NUMBER:	( 806 ) 10521	( 807 ) 10522	( 808 ) 10523	( 809 ) 10524	( 810 ) 10525
PLANT NAME:					
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	FUEL POOL	REACTOR COOLANT	REACTOR COOLANT
SAMPLING DATE:	23-FEB-83	13-APR-83	03-JUN-83	20-JUL-83	24-AUG-83
SAMPLE NUMBER:	( 811 ) 10526	( 812 ) 10527	( 813 ) 10528	( 814 ) 10529	( 815 ) 10530
PLANT NAME:					
SAMPLE TYPE:	EVAPORATOR BOTTOMS	FUEL POOL	RESIN	DRY ACTIVE WASTE	DRY ACTIVE WASTE
SAMPLING DATE:	14-OCT-83	23-SEP-83	23-SEP-83	20-OCT-83	28-OCT-83
SAMPLE NUMBER:	( 816 ) 10531	( 817 ) 10532	( 818 ) 10533	( 819 ) 10534	( 820 ) 10540
PLANT NAME:					BRUNSWICK
SAMPLE TYPE:	RESIN	FILTER CARTRIDGE	EVAPORATOR BOTTOMS	FILTER	FILTER SLUDGE
SAMPLING DATE:	09-NOV-83	07-NOV-83	08-NOV-83	03-NOV-83	17-NOV-83
SAMPLE NUMBER:	( 821 ) 10541	( 822 ) 10542	( 823 ) 10543	( 824 ) 10544	( 825 ) 10545
PLANT NAME:	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK
SAMPLE TYPE:	RESIN	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLING DATE:	18-NOV-83	16-NOV-83	17-NOV-83	16-NOV-83	17-NOV-83
SAMPLE NUMBER:	( 826 ) 10546	( 827 ) 10547	( 828 ) 10548	( 829 ) 10549	( 830 ) 10550
PLANT NAME:	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK
SAMPLE TYPE:	DRY ACTIVE WASTE	DRY ACTIVE WASTE	DRY ACTIVE WASTE	FILTER SLUDGE	FILTER
SAMPLING DATE:	16-NOV-83	16-NOV-83	16-NOV-83	17-NOV-83	18-NOV-83
SAMPLE NUMBER:	( 831 ) 10551	( 832 ) 10552	( 833 ) 10557	( 834 ) 10559	( 835 ) 10561
PLANT NAME:			ZION	ZION	ZION
SAMPLE TYPE:	RESIN	DRY ACTIVE WASTE	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLING DATE:	11-OCT-83	10-NOV-83	02-NOV-83	02-NOV-83	01-NOV-83
SAMPLE NUMBER:	( 836 ) 10563	( 837 ) 10564	( 838 ) 10565	( 839 ) 10567	( 840 ) 10569
PLANT NAME:	ZION	ZION	ZION	ZION	ZION
SAMPLE TYPE:	FUEL POOL	FUEL POOL	REACTOR COOLANT	REACTOR COOLANT	RESIN
SAMPLING DATE:	05-NOV-83	05-NOV-83	01-NOV-83	31-OCT-83	12-NOV-83
SAMPLE NUMBER:	( 841 ) 10570	( 842 ) 10571	( 843 ) 10572	( 844 ) 10573	( 845 ) 10574
PLANT NAME:	ZION	ZION	ZION	ZION	ZION
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLING DATE:	09-JAN-82	16-FEB-83	15-SEP-83	17-NOV-83	02-FEB-83
SAMPLE NUMBER:	( 846 ) 10575	( 847 ) 10576	( 848 ) 10577	( 849 ) 10578	( 850 ) 10604
PLANT NAME:	ZION	ZION	ZION	ZION	TROJAN
SAMPLE TYPE:	RESIN	RESIN	RESIN	DRY ACTIVE WASTE	DRY ACTIVE WASTE
SAMPLING DATE:	12-FEB-83	13-JUL-83	16-NOV-83	28-NOV-83	22-DEC-83



	( 851)	( 852)	( 853)	( 854)	( 855)
SAMPLE NUMBER:	10605	10596	10599	10601	10602
PLANT NAME:	TROJAN	ZION	LASALLE	LASALLE	LASALLE
SAMPLE TYPE:	DRY ACTIVE WASTE	OIL	REACTOR COOLANT	EVAPORATOR BOTTOMS	DRY ACTIVE WASTE
SAMPLING DATE:	22-DEC-83	20-DEC-83	10-NOV-83	08-NOV-83	02-JAN-84
	( 856)	( 857)	( 858)	( 859)	( 860)
SAMPLE NUMBER:	10681	10682	10683	10684	10331
PLANT NAME:	NUCLEAR ONE	NUCLEAR ONE	NUCLEAR ONE	NUCLEAR ONE	NUCLEAR ONE
SAMPLE TYPE:	RESIN	RESIN	DRY ACTIVE WASTE	FILTER CARTRIDGE	RESIN
SAMPLING DATE:	25-JUL-83	03-NOV-83	01-MAR-84	01-MAR-84	18-MAR-83
	( 861)	( 862)	( 863)	( 864)	( 865)
SAMPLE NUMBER:	10332	10333	10334	10338	10339
PLANT NAME:					
SAMPLE TYPE:	FUEL POOL	REACTOR COOLANT	REACTOR COOLANT	RESIN	REACTOR COOLANT
SAMPLING DATE:	18-MAR-83	18-APR-83	23-FEB-83	03-JUN-83	20-JUL-83
	( 866)	( 867)	( 868)	( 869)	( 870)
SAMPLE NUMBER:	10491	10489	10553	10554	10555
PLANT NAME:	PILGRIM	PILGRIM			
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	RESIN	RESIN	EVAPORATOR BOTTOMS
SAMPLING DATE:	01-NOV-83	01-NOV-83	14-NOV-83	25-OCT-83	12-OCT-83
	( 871)	( 872)	( 873)	( 874)	( 875)
SAMPLE NUMBER:	10645	10646	10647	10706	10709
PLANT NAME:				PEACH BOTTOM	PEACH BOTTOM
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	GUIDE TUBE	REACTOR COOLANT	RESIN
SAMPLING DATE:	26-OCT-83	26-OCT-83	03-FEB-84	20-MAR-84	29-DEC-83
	( 876)	( 877)	( 878)	( 879)	( 880)
SAMPLE NUMBER:	10710	10711	10712	10713	10714
PLANT NAME:	PEACH BOTTOM	PEACH BOTTOM	PEACH BOTTOM	PEACH BOTTOM	PEACH BOTTOM
SAMPLE TYPE:	RESIN	SMEAR	SMEAR	SMEAR	SMEAR
SAMPLING DATE:	07-MAR-84	23-MAR-84	23-MAR-84	23-MAR-84	23-MAR-84
	( 881)	( 882)	( 883)	( 884)	( 885)
SAMPLE NUMBER:	10715	10716	10717	10654	10655
PLANT NAME:	PEACH BOTTOM	PEACH BOTTOM	PEACH BOTTOM	V. C. SUMMER	V. C. SUMMER
SAMPLE TYPE:	SMEAR	SMEAR	DRY ACTIVE WASTE	FILTER	FILTER
SAMPLING DATE:	23-MAR-84	23-MAR-84	23-MAR-84	12-31-83	12-31-83
	( 886)	( 887)	( 888)	( 889)	( 890)
SAMPLE NUMBER:	10658	10674	10675	10696	10697
PLANT NAME:	V. C. SUMMER	V. C. SUMMER	V. C. SUMMER	OYSTER CREEK	OYSTER CREEK
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLING DATE:	31-DEC-83	24-FEB-84	24-FEB-84	15-MAR-84	06-FEB-84
	( 891)	( 892)	( 893)	( 894)	( 895)
SAMPLE NUMBER:	10698	10699	10672	10758	10759
PLANT NAME:	OYSTER CREEK	OYSTER CREEK	NORTH ANNA	GINNA	GINNA
SAMPLE TYPE:	RESIN	RESIN	FILTER	CRUD	REACTOR COOLANT
SAMPLING DATE:	27-FEB-84	05-MAR-84	17-JAN-84	10-APR-84	9-APR-84
	( 896)	( 897)	( 898)	( 899)	( 900)
SAMPLE NUMBER:	10760	10761	10762	10727	10729
PLANT NAME:	GINNA	GINNA	GINNA	MAINE YANKEE	MAINE YANKEE
SAMPLE TYPE:	EVAPORATOR BOTTOMS	FILTER	SMEAR	REACTOR COOLANT	REACTOR COOLANT
SAMPLING DATE:	15-MAR-84	15-MAR-84	22-MAR-84	13-MAR-84	15-MAR-84

D A T A B A S E S A M P L E I N V E N T O R Y  
( S E Q U E N T I A L L I S T I N G )

	( 901 )	( 902 )	( 903 )	( 904 )	( 905 )
SAMPLE NUMBER:	10730	10731	10732	10757	10808
PLANT NAME:	MAINE YANKEE	MAINE YANKEE	MAINE YANKEE	GINNA	V. C. SUMMER
SAMPLE TYPE:	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	SMEAR	SMEAR	EVAPORATOR BOTTOMS
SAMPLING DATE:	02-FEB-84	10-MAR-84	15-MAR-84	14-MAR-84	25-APR-84
	( 906 )	( 907 )	( 908 )	( 909 )	( 910 )
SAMPLE NUMBER:	10809	10810	10811	10812	10813
PLANT NAME:	V. C. SUMMER	V. C. SUMMER	V. C. SUMMER	V. C. SUMMER	OYSTER CREEK
SAMPLE TYPE:	SMEAR	FILTER	RESIN	REACTOR COOLANT	RESIN
SAMPLING DATE:	24-APR-84	24-APR-84	24-APR-84	27-APR-84	21-MAR-84
	( 911 )	( 912 )	( 913 )		
SAMPLE NUMBER:	10814	10876	10878		
PLANT NAME:	OYSTER CREEK				
SAMPLE TYPE:	RESIN	SMEAR	RESIN		
SAMPLING DATE:	23-MAR-84	08-MAY-84	11-MAY-84		

### A.3 Listing of Data

This is a listing of the analytical results for each sample. Included in the data are (1) plant name, (2) unit number (a unit "0" indicates a single-unit plant), (3) plant type, (4) plant location (inland or seacoast), (5) the plant start-up date, (6) the sample type (discussed below), (7) sample sub-type, (8) sampling date and (9) the SAIC sample number. Concentrations and uncertainties are listed for each nuclide for the date of the sampling. Minimum detectable limits are indicated by the symbol "<". No entry indicates that no measurement was made for that nuclide. When the utility requested that the name of the plant be omitted, we complied with the request. The plant listed as "Nuclear Unit One" is the Arkansas Power and Light Company plant. Samples are included in the following categories:

<u>Sample Type</u>	<u>Sample Sub-Type</u>
Reactor Coolant	Liquid Solid
Fuel Pool	Liquid Solid
Evaporator Bottoms	Liquid Solid
Resin	Primary Secondary Fuel Pool Radwaste
Filter Sludge	Primary Secondary Radwaste
Filter Cartridge	Primary Secondary Radwaste Fuel Pool
Dry Active Waste	Primary Secondary
Crud	Primary Secondary

RADIOACTIVE WASTE SAMPLE LISTING  
S A I D A T A B A S E

PLANT NAME:	PILGRIM	QUAD CITIES	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK
UNIT NUMBER:	0	1	0	0	0
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	SEACOAST	INLAND	SEACOAST	SEACOAST	SEACOAST
START-UP DATE:	01-DEC-72	01-AUG-72	01-DEC-69	01-DEC-69	01-DEC-69
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLE SUB-TYPE:	SOLID	SOLID	SOLID	SOLID	SOLID
SAMPLING DATE:	08-OCT-76	14-MAR-78	15-MAR-77	22-MAR-76	13-OCT-76
SAMPLE NUMBER:	T050	7048	T094	T002	4727

Concentrations in microcuries/gram

A-30

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H			<2. 5E-08							
14-C	1. 10E-07	4. 70E-08	6. 50E-08	4. 55E-09						
54-MN	4. 10E-04	2. 05E-05	7. 37E-06	3. 70E-07	3. 40E-05	2. 00E-06	5. 90E-04	3. 00E-05	6. 10E-05	4. 00E-06
55-FE										
58-CO	1. 80E-04	1. 00E-05	2. 79E-05	1. 40E-06	3. 10E-06	2. 00E-07	3. 30E-05	2. 00E-06	6. 30E-06	3. 15E-07
60-CO	1. 21E-03	6. 05E-05	7. 09E-05	3. 55E-06	3. 10E-05	2. 00E-06	5. 50E-04	3. 00E-05	7. 90E-05	4. 00E-06
59-NI	<8. 1E-07		<6. 9E-09		<1. 3E-07				<1. 3E-07	
63-NI	7. 80E-06	4. 68E-07	1. 56E-08	1. 72E-09	<3. 0E-09				<7. 2E-08	
90-SR	7. 10E-08	3. 10E-08	8. 49E-08	4. 24E-09	6. 10E-08	7. 90E-09			5. 00E-08	1. 20E-08
95-ZR	7. 20E-05	8. 00E-06	1. 31E-05	2. 60E-06	6. 00E-06	9. 00E-07	1. 80E-05	1. 00E-06	8. 40E-06	2. 30E-06
94-NB	<1. 6E-07		<1. 8E-08		<1. 9E-06				<7. 9E-08	
99-TC	<1. 5E-07				<3. 5E-09				<3. 2E-09	
106-RU	6. 60E-06	1. 90E-06			6. 60E-07	2. 00E-07	3. 40E-06	4. 00E-07	6. 60E-07	1. 40E-07
110M-AG			5. 74E-06	6. 80E-07					3. 80E-07	1. 10E-07
125-SB	1. 80E-06	1. 20E-06					1. 30E-06	1. 00E-07	2. 20E-07	3. 00E-08
129-I										
134-CS			1. 16E-06	2. 10E-07	3. 20E-07	1. 00E-07			4. 20E-07	8. 00E-08
135-CS										
137-CS	1. 60E-06	1. 00E-06	<8. 9E-08		2. 40E-07	9. 00E-08			1. 80E-07	8. 00E-08
141-CE	1. 21E-04	6. 05E-06	8. 33E-06	4. 20E-07	7. 90E-06	4. 00E-07	2. 40E-05	2. 00E-06	2. 10E-05	1. 05E-06
144-CE	9. 10E-05	5. 00E-06	5. 44E-06	3. 90E-07	4. 30E-06	1. 50E-06	1. 40E-05	1. 00E-06	4. 00E-06	2. 00E-07
152-EU							9. 40E-07	3. 00E-07		
154-EU	9. 20E-07	3. 00E-07					5. 40E-06	2. 00E-06		
155-EU	5. 80E-07	2. 00E-07					3. 90E-06	1. 00E-06	6. 00E-08	2. 00E-08
235-U	<4. 0E-09				<7. 0E-11		<1. 0E-08		<5. 0E-10	
238-U	<4. 0E-09				<7. 0E-11		<1. 0E-08		<5. 0E-10	
238-PU	9. 10E-08	1. 00E-08	1. 12E-08	6. 00E-10	2. 10E-08	2. 00E-09	4. 50E-08	1. 50E-08	1. 10E-08	2. 00E-09
239-PU	1. 20E-07	2. 00E-08	4. 90E-09	3. 00E-10	2. 20E-08	2. 00E-09	2. 30E-08	7. 00E-09	5. 00E-09	6. 00E-10
241-PU	1. 40E-05	2. 50E-06	<2. 5E-07		<6. 5E-07				7. 80E-07	4. 70E-07
241-AM	1. 10E-07	3. 00E-08	4. 30E-09	6. 00E-10	1. 40E-09	2. 00E-10	7. 10E-09	2. 00E-09	7. 00E-09	1. 10E-09
242-CM	1. 00E-06	2. 00E-07	1. 80E-07	2. 00E-08	2. 30E-07	2. 00E-08	1. 90E-07	3. 00E-08	1. 60E-07	2. 00E-08
244-CM	3. 70E-08	5. 00E-09	8. 80E-09	1. 00E-09	8. 10E-09	9. 00E-10	2. 00E-08	4. 00E-09	1. 40E-08	3. 00E-09

RADIOACTIVE WASTE SAMPLE LISTING  
SAI DATABASE

PLANT NAME:	MONTICELLO	MILLSTONE	MONTICELLO	MONTICELLO	MONTICELLO
UNIT NUMBER:	0	1	0	0	0
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	SEACOAST	INLAND	INLAND	INLAND
START-UP DATE:	01-JUL-71	01-DEC-70	01-JUL-71	01-JUL-71	01-JUL-71
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLE SUB-TYPE:	SOLID	SOLID	SOLID	SOLID	SOLID
SAMPLING DATE:	16-MAR-76	14-DEC-77	06-DEC-77	28-MAR-78	08-FEB-77
SAMPLE NUMBER:	T031	6826	6806	7052	T085

Concentrations in microcuries/gram

A-31

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	1.50E-05	1.00E-06	2.17E-04	1.10E-05	2.60E-06	1.30E-07	9.19E-07	5.30E-08	2.68E-06	1.34E-07
55-FE										
58-CO	4.60E-05	2.30E-06	6.06E-05	3.03E-06	1.10E-06	1.00E-07	1.37E-06	9.00E-08	5.10E-06	3.00E-07
60-CO	9.40E-05	5.00E-06	2.28E-04	1.14E-05	2.00E-05	1.00E-06	1.14E-05	6.00E-07	1.96E-05	1.00E-06
59-NI			<2.1E-07						<8.0E-07	
63-NI			4.24E-06	2.12E-07					1.90E-07	1.20E-07
90-SR			3.00E-08	2.20E-09	1.22E-08	1.00E-09			<1.3E-08	
93-ZR	1.03E-04	7.00E-06	3.54E-05	8.00E-06	2.50E-06	8.00E-07	5.04E-07	9.80E-08	1.09E-05	6.00E-07
94-NB			<1.1E-08						<5.0E-08	
99-TC			<2.9E-08						<4.8E-10	
106-RU	5.40E-06	3.00E-07	8.16E-06	8.50E-07	2.50E-07	1.00E-07			4.83E-07	4.00E-08
110M-AG	3.10E-07	1.00E-07								
125-SB	5.80E-07	8.00E-08			3.20E-07	8.00E-08	1.16E-07	5.70E-08	3.30E-08	1.30E-08
129-I										
134-CS	1.60E-07	8.00E-08	1.82E-06	4.40E-07			1.64E-07	3.90E-08		
135-CS										
137-CS	2.30E-07	7.00E-08	1.33E-06	4.10E-07	2.20E-07	6.00E-08	1.47E-07	4.60E-08	9.30E-08	1.80E-08
141-CE	9.50E-05	5.00E-06	4.80E-05	2.40E-06	1.30E-05	1.00E-06	5.40E-06	2.70E-07	4.50E-05	2.25E-06
144-CE	5.40E-05	3.00E-06	3.10E-05	3.80E-06	2.00E-06	2.00E-07	9.09E-07	3.00E-07	3.30E-06	2.00E-07
152-EU										
154-EU	1.40E-06	4.00E-07							4.60E-08	1.30E-08
155-EU	1.40E-06	4.00E-07							8.00E-08	2.00E-08
235-U	<4.0E-10								<3.0E-10	
238-U	<4.0E-10								<3.0E-10	
238-PU	1.60E-07	3.00E-08	6.20E-08	1.00E-08	8.50E-09	6.00E-10	4.20E-09	8.00E-10	1.22E-08	2.00E-09
239-PU	9.70E-08	1.00E-08	2.60E-08	3.00E-09	4.70E-09	4.00E-10	2.10E-09	5.00E-10	7.80E-09	1.00E-09
241-PU			<1.2E-06						4.72E-07	3.78E-08
241-AM	3.60E-08	6.00E-09	1.70E-08	3.00E-09	1.50E-09	2.00E-10	<1.1E-09		3.00E-09	5.00E-10
242-CM	1.60E-06	2.00E-07	4.50E-06	5.00E-07	2.10E-08	1.05E-09	1.60E-08	2.00E-09	9.20E-08	1.00E-08
244-CM	7.30E-08	1.10E-08	2.30E-07	2.00E-08	3.10E-09	5.00E-10	5.50E-09	2.00E-09	5.10E-09	6.00E-10

RADIOACTIVE WASTE SAMPLE LISTING  
SAI DATABASE

PLANT NAME:	MONTICELLO	BIG ROCK POINT	BIG ROCK POINT	BIG ROCK POINT	BIG ROCK POINT
UNIT NUMBER:	0	0	0	0	0
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-JUL-71	01-DEC-62	01-DEC-62	01-DEC-62	01-DEC-62
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLE SUB-TYPE:	SOLID	SOLID	SOLID	SOLID	SOLID
SAMPLING DATE:	22-JUN-77	29-JAN-76	27-MAY-76	13-MAY-76	18-FEB-77
SAMPLE NUMBER:	6366	T016	T036	T037	T090

Concentrations in microcuries/gram

A-32

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C			2.16E-07	1.10E-08					8.67E-08	4.34E-09
54-MN	4.00E-05	2.00E-06	2.40E-06	1.20E-07	7.00E-03	4.00E-04	1.10E-05	1.00E-06	4.70E-06	2.35E-07
55-FE										
58-CO	5.10E-05	3.00E-06	1.64E-06	8.20E-08	1.02E-03	5.10E-05	1.70E-04	1.00E-05	1.85E-06	9.25E-08
60-CO	3.80E-04	2.00E-05	1.40E-05	7.00E-07	5.30E-04	3.00E-05	7.90E-05	4.00E-06	1.44E-05	7.20E-07
59-NI	<2.1E-07		<8.1E-08				<8.1E-07		<7.2E-08	
63-NI	2.14E-06	1.10E-07	3.30E-07	4.30E-08			1.52E-05	8.00E-07	1.46E-07	3.80E-08
90-SR	1.90E-08	3.70E-09	7.60E-09	3.10E-09			3.53E-06	1.90E-07	<3.6E-09	
95-ZR	4.20E-05	6.00E-06	5.30E-07	5.00E-08	2.60E-04	1.30E-05	6.50E-05	3.25E-06	7.70E-07	1.20E-07
94-NB	<3.3E-08		<3.0E-08				<3.8E-08		<4.5E-08	
99-TC	<2.8E-08		<2.2E-09				<1.1E-08		<1.7E-09	
106-RU	4.50E-06	8.00E-07			8.60E-05	4.00E-05				
110M-AG			1.30E-07	4.00E-08	7.90E-06	2.00E-06			1.00E-07	4.00E-08
125-SB	1.40E-06	8.00E-07			1.70E-06	8.00E-07				
129-I			<1.1E-08							
134-CS	<2.4E-07		5.10E-07	5.00E-08	1.17E-04	6.00E-06	2.00E-04	1.00E-05	<1.4E-07	
135-CS										
137-CS	9.20E-07	4.20E-07	1.51E-06	8.00E-08	2.10E-04	1.05E-05	4.00E-04	2.00E-05	<1.4E-07	
141-CE	5.10E-05	3.00E-06	1.47E-06	7.35E-08	4.10E-05	6.00E-06	1.20E-05	4.00E-06	4.50E-06	7.00E-07
144-CE	2.30E-05	2.00E-06			4.10E-05	6.00E-06	1.50E-05	2.00E-06		
152-EU										
154-EU					4.20E-07	6.00E-08				
155-EU					5.40E-07	1.00E-07				
235-U	<7.0E-11		<2.0E-10		<2.0E-10		<6.0E-10		<2.0E-10	
238-U	<7.0E-11		<2.0E-10		<2.0E-10		<6.0E-10		<2.0E-10	
238-PU	1.20E-07	1.00E-08	1.90E-09	4.00E-10	3.30E-07	5.00E-08	2.90E-08	4.00E-09	4.60E-10	7.00E-11
239-PU	7.50E-08	9.00E-09	4.90E-09	1.50E-09	5.00E-07	7.00E-08	4.40E-08	6.00E-09	4.60E-10	7.00E-11
241-PU	1.07E-05	8.00E-07	<1.0E-06		4.60E-05	1.00E-05	1.16E-05	2.60E-06	<1.0E-07	
241-AM	3.00E-08	2.00E-08	<2.0E-11		4.60E-08	6.00E-09	1.90E-08	6.00E-09	4.90E-10	7.00E-11
242-CM	9.00E-07	3.00E-07	<2.0E-11		1.90E-06	3.00E-07	4.70E-07	6.00E-08	6.80E-10	8.00E-11
244-CM	9.00E-08	3.00E-08	4.00E-11	2.00E-11	8.70E-08	1.00E-08	1.20E-08	3.00E-09	1.90E-10	2.00E-11

RADIOACTIVE WASTE SAMPLE LISTING  
S A T D A T A B A S E

PLANT NAME:	BIG ROCK POINT	BIG ROCK POINT	J	1	2
UNIT NUMBER:	0	0			
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-62	01-DEC-62	01-AUG-74	01-AUG-74	01-MAR-75
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLE SUB-TYPE:	SOLID	SOLID	SOLID	SOLID	SOLID
SAMPLING DATE:	30-NOV-77	14-APR-78	23-FEB-78	16-JUN-78	23-FEB-78
SAMPLE NUMBER:	6814	7132	6976	7392	6977

Concentrations in microcuries/gram

A-33

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	5. 10E-03	3. 00E-06	1. 38E-05	6. 90E-07	6. 60E-06	3. 30E-07	2. 93E-05	1. 50E-06	6. 40E-06	3. 20E-07
55-FE										
58-CO	6. 50E-06	3. 25E-07	7. 08E-06	3. 54E-07	5. 20E-06	3. 00E-07	2. 77E-05	1. 40E-06	1. 29E-05	6. 45E-07
60-CO	7. 60E-05	4. 00E-06	2. 66E-05	1. 33E-06	2. 10E-05	1. 05E-06	6. 91E-05	3. 46E-06	2. 60E-05	1. 30E-06
59-NI							<1. 8E-07			
63-NI							1. 08E-06	5. 40E-08		
90-SR							1. 50E-09	1. 00E-09		
95-ZR	9. 40E-07	1. 90E-07	3. 03E-07	2. 00E-07	2. 20E-05	2. 00E-06	6. 77E-05	7. 00E-06	6. 70E-05	4. 00E-06
94-NB							<5. 9E-09			
99-TC							<1. 0E-08			
106-RU										
110M-AG	9. 40E-07	1. 30E-07	2. 44E-07	1. 60E-07	2. 00E-07	4. 00E-08	3. 72E-06	2. 10E-07	1. 30E-07	7. 00E-08
125-SB	1. 90E-07	1. 00E-07			2. 20E-07	5. 00E-08	4. 65E-07	1. 70E-07	3. 70E-07	8. 00E-08
129-I										
134-CS	<8. 0E-08		<4. 1E-08		<3. 4E-08		3. 70E-07	1. 60E-07	<4. 8E-08	
135-CS										
137-CS	<8. 0E-08		<4. 0E-08		<2. 5E-08		<7. 1E-08		<3. 3E-08	
141-CE	1. 70E-06	2. 00E-07	6. 87E-07	7. 40E-08	2. 40E-05	5. 00E-06	9. 10E-07	2. 90E-07	2. 90E-07	5. 00E-08
144-CE	7. 00E-08	4. 00E-08			9. 80E-07	1. 70E-07	2. 46E-06	5. 30E-07	2. 20E-06	2. 00E-07
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	7. 00E-10	4. 00E-10	1. 02E-09	8. 00E-11	8. 90E-11	1. 50E-11	9. 90E-09	1. 20E-09	<5. 0E-11	
239-PU	7. 00E-10	2. 00E-10	1. 60E-09	1. 00E-10	5. 20E-11	1. 00E-11	3. 80E-09	3. 00E-10	5. 60E-11	1. 50E-11
241-PU							<1. 9E-06			
241-AM	6. 10E-10	1. 00E-10	5. 60E-10	5. 00E-11	1. 00E-09	4. 00E-10	6. 00E-10	6. 00E-11	1. 40E-08	3. 00E-09
242-CM	3. 60E-09	1. 00E-09	7. 10E-10	4. 00E-11	4. 70E-10	3. 00E-10	2. 30E-08	1. 15E-09	8. 30E-09	3. 00E-09
244-CM	2. 80E-10	1. 00E-10	2. 90E-11	4. 00E-12	1. 10E-09	3. 00E-10	6. 10E-10	6. 00E-11	<1. 0E-08	

# RADIOACTIVE WASTE SAMPLE LISTING

(S A I) D A T A B A S E

PLANT NAME:	2	3	4	OYSTER CREEK	OCONEE
UNIT NUMBER:	BWR	BWR	BWR	0	1
PLANT TYPE:	BWR	BWR	BWR	BWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	SEACOAST	INLAND
START-UP DATE:	1-MAR-75	01-MAR-77	01-MAR-77	01-DEC-69	01-JUL-73
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	FILTER CARTRIDGE
SAMPLE SUB-TYPE:	SOLID	SOLID	SOLID	SOLID	FUEL POOL
SAMPLING DATE:	16-JUN-78	23-FEB-78	16-JUN-78	25-JUN-76	19-AUG-82
SAMPLE NUMBER:	7394	6975	7393	T028	9928

Concentrations in microcuries/gram

A-34

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C			1.40E-08	4.90E-09	1.52E-06	7.60E-08				
54-MN	9.04E-06	4.52E-07	1.47E-05	7.35E-07	2.01E-05	1.07E-06	2.60E-05	1.30E-06	1.65E+01	8.25E-01
55-FE										
58-CO	7.37E-06	3.70E-07	1.12E-05	6.00E-07	2.72E-05	1.40E-06	2.10E-06	1.05E-07	4.40E+01	2.20E+00
60-CO	6.18E-05	3.10E-06	1.35E-05	7.00E-07	4.18E-05	2.10E-06	4.00E-05	2.00E-05	6.06E+01	3.03E+00
59-NI	<5.9E-06		<8.1E-08		<8.2E-08					
63-NI	4.60E-06	2.30E-07	2.15E-06	1.10E-07	1.20E-06	6.00E-08				
90-SR	7.87E-08	2.69E-08	<5.4E-09		<6.2E-09					
95-ZR	7.30E-05	3.70E-06	7.30E-05	4.00E-06	4.03E-04	2.10E-05	1.50E-06	1.00E-07	<6.9E-02	
94-NB	<1.5E-09		<3.2E-08		<3.6E-08					
99-TC	<7.7E-09		<5.6E-09		1.33E-08	1.20E-09				
106-RU							2.10E-07	9.00E-08	<6.6E-01	
110M-AG	1.67E-06	1.50E-07	4.00E-07	5.00E-08	3.24E-06	2.40E-07			5.70E+01	2.85E+00
125-SB	<2.8E-07		3.10E-07	4.00E-08	2.38E-06	1.30E-07			2.40E+00	7.00E-01
129-I	<1.2E-08									
134-CS	<7.1E-08		<4.4E-08		<1.6E-07				1.08E+00	1.50E-01
135-CS										
137-CS	<5.8E-08		<3.4E-08		<1.3E-07				<2.7E-01	
141-CE	<1.1E-07		<4.1E-08		<2.8E-07		7.30E-06	4.00E-07	<6.1E-02	
144-CE	<6.1E-07		2.50E-06	3.00E-07	7.18E-06	1.10E-06	1.12E-06	1.50E-07	1.40E+00	2.00E-01
152-EU										
154-EU							2.50E-08	1.00E-08		
155-EU							7.20E-08	2.00E-08		
235-U							<2.0E-10			
238-U							<2.0E-10			
238-PU	1.70E-09	2.00E-10	2.50E-10	1.00E-10	4.60E-10	6.00E-11	5.70E-09	1.00E-09	1.17E-02	5.85E-04
239-PU	4.30E-10	1.10E-10	1.90E-10	1.00E-10	3.80E-10	5.00E-11	2.40E-09	6.00E-10	6.90E-03	3.45E-04
241-PU	<7.3E-07		<1.2E-06		<1.8E-07					
241-AM	9.70E-11	2.90E-11	1.10E-09	3.00E-10	8.70E-10	4.00E-10	<2.0E-10		3.53E-03	1.77E-04
242-CM	8.85E-10	1.10E-10	3.00E-10	2.00E-10			2.20E-08	2.00E-09	2.91E-02	1.46E-03
244-CM	<1.8E-11		1.60E-10	7.00E-11			2.80E-09	6.00E-10	7.51E-03	3.76E-04



# RADIOACTIVE WASTE SAMPLE LISTING

RAI DATABASE

PLANT NAME:	DCONEE	BIG ROCK POINT	PILGRIM	OYSTER CREEK	OYSTER CREEK
UNIT NUMBER:	3	0	0	0	0
PLANT TYPE:	PWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	SEACOAST	SEACOAST	SEACOAST
START-UP DATE:	01-DEC-74	01-DEC-62	01-DEC-72	01-DEC-69	01-DEC-69
SAMPLE TYPE:	FILTER CARTRIDGE	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLE SUB-TYPE:	PRIMARY	SOLID	LIQUID	LIQUID	LIQUID
SAMPLING DATE:	19-AUG-82	03-MAR-74	26-JUL-76	22-MAR-76	15-JUN-76
SAMPLE NUMBER:	9929	T017	T057	T001	T027

Concentrations in microcuries/gram

A-35

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C			3.14E-06	1.57E-07						
54-MN	4.68E+00	2.34E-01	2.30E-05	1.15E-06	6.90E-06	9.00E-07	1.00E-03	1.00E-04	3.50E-05	3.00E-06
55-FE										
58-CD	1.52E+02	7.60E+00	5.20E-06	1.00E-06			8.20E-05	6.00E-06	9.30E-06	5.00E-06
60-CD	6.40E+01	3.20E+00	3.50E-05	3.00E-06	2.30E-04	1.15E-05	1.30E-03	1.00E-04	2.10E-04	1.05E-05
59-NI			<5.7E-07							
63-NI			<1.2E-06							
90-SR			1.10E-07	6.60E-08						
95-ZR	1.00E+00	6.00E-01					5.20E-05	3.00E-06		
94-NB			<7.3E-07							
99-TC			<3.4E-08							
106-RU	<5.7E-01								2.40E-03	2.00E-04
110M-AG	1.27E+01	6.35E-01								
125-SB	2.20E+00	7.00E-01			2.60E-05	3.00E-06				
129-I										
134-CS	3.00E-01	2.00E-01	1.80E-06	9.00E-07	5.10E-05	3.00E-06			3.40E-05	6.00E-06
135-CS										
137-CS	<1.4E-01		2.30E-06	4.00E-07	1.16E-04	6.00E-06	1.10E-05	1.00E-06	5.60E-05	3.30E-05
141-CE	<5.1E-02				3.70E-03	3.00E-06	7.70E-05	4.00E-06		
144-CE	3.20E+00	3.00E-01	1.20E-05	5.00E-06	<7.0E-05		3.50E-05	2.00E-06		
152-EU										
154-EU										
155-EU										
235-U			<2.0E-08				<1.5E-05			
238-U			<2.0E-08				<1.5E-05			
238-PU	2.23E-02	1.11E-03	2.70E-07	1.60E-08			<2.0E-07			
239-PU	2.04E-02	1.02E-03	1.33E-07	1.10E-08			<7.0E-08			
241-PU			1.37E-05	7.50E-06						
241-AM	8.38E-03	4.19E-04	5.10E-08	5.10E-09			<8.0E-08			
242-CM	3.02E-02	1.51E-03	<4.0E-09				<3.0E-08			
244-CM	8.45E-03	4.22E-04	5.50E-08	5.50E-09			<3.0E-08			

# RADIOACTIVE WASTE SAMPLE LISTING

SAI DATABASE

PLANT NAME:	OYSTER CREEK	MILLSTONE	MONTICELLO	MONTICELLO	
UNIT NUMBER:	0	1	0	0	1
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	SEACOAST	SEACOAST	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-69	01-DEC-70	01-JUL-71	01-JUL-71	01-AUG-74
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLE SUB-TYPE:	LIQUID	SOLID	SOLID	SOLID	SOLID
SAMPLING DATE:	13-OCT-76	12-JUL-78	31-AUG-78	13-DEC-78	21-JUN-78
SAMPLE NUMBER:	T067	7442	7656	7808	7570

Concentrations in microcuries/gram

A-36

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C					8.39E-08	4.20E-09				
54-MN	2.70E-05	2.00E-06	1.42E-04	7.10E-06	3.40E-06	1.70E-07	3.62E-06	1.81E-07	3.82E-06	1.91E-07
55-FE										
58-CO	1.80E-05	3.00E-06	5.76E-05	2.90E-06	6.34E-06	3.30E-07	4.65E-06	3.70E-07	3.78E-06	2.40E-07
60-CD	1.70E-04	1.00E-05	1.57E-04	8.00E-06	4.52E-05	2.30E-06	3.49E-05	1.74E-06	1.07E-05	5.35E-07
59-NI					<8.1E-08					
63-NI					2.60E-07	3.40E-08				
90-SR			2.37E-08	1.20E-09	<4.7E-09				1.41E-09	2.60E-10
95-ZR	<1.9E-06		2.33E-05	2.90E-06	3.42E-06	1.80E-07	1.55E-06	3.20E-07	1.40E-05	1.20E-06
94-NB					<2.1E-08					
99-TC					<4.9E-09					
106-RU			3.00E-06	6.10E-07			2.46E-07	1.09E-07		
110M-AG									9.75E-07	1.35E-07
125-SB	1.70E-05	7.00E-06	<6.3E-07		8.66E-08	3.10E-08			1.35E-07	1.00E-08
129-I					<3.5E-09					
134-CS	1.90E-05	2.00E-06	<1.5E-07		<2.4E-08		<2.4E-08		2.45E-07	3.50E-08
135-CS										
137-CS	2.20E-05	3.00E-06	<1.3E-07		1.10E-07	5.10E-08	<2.5E-08		<2.0E-08	
141-CE	4.10E-05	4.00E-06	3.41E-05	1.71E-06	1.19E-05	9.00E-07	1.23E-05	1.50E-06	<4.5E-07	
144-CE			1.74E-05	4.30E-06	1.01E-06	1.70E-07	<1.8E-06			
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU			7.27E-08	8.70E-09	7.25E-09	3.80E-10			1.26E-08	6.30E-10
239-PU			4.65E-08	5.90E-09	3.91E-09	2.60E-10			3.48E-09	1.74E-10
241-PU					<1.7E-07					
241-AM			<3.8E-09		3.82E-08	1.91E-09	1.59E-08	2.70E-09	1.48E-09	7.40E-11
242-CM			3.36E-07	9.40E-08	5.19E-08	2.60E-09	<1.7E-08		2.57E-07	1.30E-08
244-CM			2.81E-07	9.80E-08	5.80E-09	4.60E-10	1.18E-09	6.30E-10	5.48E-09	2.74E-10

RADIOACTIVE WASTE SAMPLE LISTING  
SAI DATABASE

PLANT NAME:					
UNIT NUMBER:	1	1	2	2	3
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-AUG-74	01-AUG-74	01-MAR-75	01-MAR-75	01-MAR-77
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLE SUB-TYPE:	SOLID	SOLID	SOLID	SOLID	SOLID
SAMPLING DATE:	02-OCT-78	31-JAN-79	02-OCT-78	31-JAN-79	11-DEC-78
SAMPLE NUMBER:	7652	7889	7649	7890	7651

Concentrations in microcuries/gram

A-37

	Value	Unc.	Value	Unc.	Value	Unc.	Value	Unc.	Value	Unc.
3-H										
14-C										
54-MN	3.12E-07	1.60E-08	7.54E-06	3.80E-07	5.55E-05	2.80E-06	1.94E-05	1.00E-06	7.00E-05	3.50E-06
55-FE										
58-CO	2.36E-07	3.90E-08	4.61E-06	2.70E-07	8.47E-05	4.23E-06	3.00E-05	1.50E-06	4.70E-05	2.35E-06
60-CO	2.12E-06	1.10E-07	2.52E-05	1.30E-06	2.11E-04	1.06E-05	6.94E-05	3.50E-05	1.40E-04	7.00E-06
59-NI					<1.2E-06				<6.7E-07	
63-NI					1.59E-06	1.10E-07			1.70E-06	1.70E-07
90-SR					<1.7E-08				<6.1E-09	
95-ZR	3.61E-06	1.80E-07	1.45E-05	1.20E-06	2.00E-04	1.10E-05	1.39E-04	8.00E-06	1.44E-04	7.20E-06
94-NB					<7.1E-08				<4.1E-08	
99-TC					<4.6E-09				<6.8E-10	
106-RU			1.43E-07	8.10E-08						
110M-AG	2.19E-07	1.10E-08	1.33E-07	5.10E-08	3.31E-05	1.70E-06	1.24E-06	1.50E-07		
125-SB	7.53E-08	9.20E-09	6.06E-07	1.91E-07	2.23E-06	3.80E-07	2.87E-06	1.90E-07	<2.3E-06	
129-I										
134-CS	<4.1E-09		<1.8E-08		<1.7E-07		<6.8E-08		<1.5E-07	
135-CS										
137-CS	<4.0E-09		<1.7E-08		<1.4E-07		<5.4E-08		<1.3E-07	
141-CE	<6.0E-08		<5.3E-07		<2.5E-06		<4.4E-05		<5.6E-07	
144-CE					2.16E-06	1.10E-06	7.24E-07	4.31E-07		
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	4.25E-10	5.50E-11	9.47E-09	4.74E-10	3.13E-10	5.60E-11	4.78E-09	2.90E-10	6.69E-10	8.00E-11
239-PU	3.33E-10	4.80E-11	4.30E-09	2.15E-10	2.74E-10	5.30E-11	1.47E-09	1.50E-10	5.74E-10	6.90E-11
241-PU					<2.2E-07				<1.0E-07	
241-AM			8.17E-10	4.10E-11	9.94E-09	1.49E-09	6.35E-10	4.40E-11	<2.0E-09	
242-CM			3.89E-08	1.90E-08	<1.5E-09		2.86E-08	1.43E-09	<1.8E-09	
244-CM			2.51E-09	1.30E-10	<4.9E-10		2.01E-09	1.00E-10	<3.1E-10	

# RADIOACTIVE WASTE SAMPLE LISTING

SAJ DATABASE

PLANT NAME:	MONTICELLO	MONTICELLO	MONTICELLO
UNIT NUMBER:	3	0	0
PLANT TYPE:	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND
START-UP DATE:	01-MAR-77	01-JUL-71	01-JUL-71
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	FILTER SLUDGE
SAMPLE SUB-TYPE:	SOLID	SOLID	PRIMARY
SAMPLING DATE:	31-JAN-79	04-OCT-76	03-OCT-76
SAMPLE NUMBER:	7891	T064	T065
			TOB6

Concentrations in microcuries/gram

A-38

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H							<3.6E-03		3.11E-03	8.71E-04
14-C							<4.8E-03		<1.3E-04	
54-MN	2.41E-05	1.20E-06	9.00E-06	4.50E-07	1.29E-06	6.45E-08	1.40E-01	7.00E-03	6.80E-02	3.40E-03
55-FE										
58-CO	3.68E-05	1.84E-06	2.20E-05	1.10E-06	3.74E-06	1.90E-07	3.00E-01	2.00E-02	4.80E-02	5.00E-03
60-CO	5.12E-05	2.60E-06	7.90E-05	4.00E-06	1.56E-05	8.30E-07	3.10E+00	2.00E-01	1.00E+00	5.00E-02
59-NI			<5.1E-07		<7.7E-08		<7.3E-03		<1.1E-03	
63-NI			3.60E-07	5.00E-08	7.60E-08	3.30E-08	1.50E-01	1.30E-02	6.62E-02	3.31E-03
90-SR			1.98E-07	1.20E-08	6.30E-09	3.00E-09	8.40E-01	4.20E-02	9.77E-02	4.89E-03
95-ZR	4.91E-05	2.45E-06	5.90E-05	6.00E-06	1.50E-06	1.70E-07	1.30E-01	1.00E-02	2.50E-02	1.20E-02
94-NB			<1.3E-08		<1.8E-08		<7.7E-04		4.74E-03	8.53E-04
99-TC			<9.4E-07		<4.7E-08		<2.7E-04			
106-RU			1.90E-06	2.00E-07	5.92E-08	3.70E-08	4.40E-02	1.60E-02	2.50E-02	8.00E-03
110M-AG	1.07E-06	6.00E-08								
125-SB	1.45E-06	1.30E-07	3.40E-07	1.60E-07						
129-I					<1.8E-09		<8.4E-05		<3.7E-05	
134-CS	<3.3E-08		<5.0E-08		<9.1E-09		3.60E+00	2.00E-01	3.30E+00	2.00E-01
135-CS										
137-CS	<3.0E-08		1.60E-07	1.10E-07	<9.6E-09		5.60E+00	3.00E-01	6.30E+00	3.15E-01
141-CE	<9.5E-07		5.70E-05	3.00E-06	1.49E-05	7.50E-07	7.40E-02	1.00E-02	6.30E-02	1.50E-02
144-CE			2.00E-05	1.00E-06	4.80E-07	5.00E-08	3.71E-01	4.00E-02	1.48E-01	2.20E-02
152-EU							2.60E-03	6.00E-04		
154-EU			3.10E-07	5.00E-08			6.30E-03	1.10E-03	<5.4E-03	
155-EU			2.90E-07	5.00E-08			5.60E-03	1.00E-03		
235-U			<4.0E-10				<1.0E-05		<4.0E-07	
238-U			<4.0E-10				<1.0E-05		4.00E-07	2.00E-07
238-PU	7.75E-09	3.90E-10	4.70E-08	7.00E-09	5.50E-09	4.00E-10	3.90E-02	5.00E-03	5.70E-03	7.00E-04
239-PU	2.96E-09	1.90E-10	2.60E-08	4.00E-09	3.20E-09	3.00E-10	2.50E-02	3.00E-03	3.80E-03	6.00E-04
241-PU			7.31E-06	1.60E-06	<1.8E-07		8.15E-01	6.30E-02	6.29E-02	2.48E-03
241-AM	7.62E-10	8.40E-11	2.70E-08	3.00E-09	1.74E-08	9.00E-09	2.00E-03	2.00E-04	1.20E-03	2.00E-04
242-CM	2.58E-08	1.30E-09	7.10E-07	5.00E-08	1.00E-07	1.00E-08	3.70E-02	4.00E-03	1.40E-02	2.00E-03
244-CM	2.43E-09	1.70E-10	6.60E-08	8.00E-09	3.70E-09	4.00E-10	4.70E-03	5.00E-04	2.00E-03	3.00E-04

# RADIOACTIVE WASTE SAMPLE LISTING

SAJ DATABASE

PLANT NAME:	MONTICELLO	MONTICELLO	PILGRIM	PILGRIM	OYSTER CREEK
UNIT NUMBER:	0	0	0	0	0
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	SEACOAST	SEACOAST	SEACOAST
START-UP DATE:	01-JUL-71	01-JUL-71	01-DEC-72	01-DEC-72	01-DEC-69
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE
SAMPLE SUB-TYPE:	SECONDARY	SECONDARY	RADWASTE	RADWASTE	PRIMARY
SAMPLING DATE:	26-MAY-76	03-OCT-76	26-JUL-76	26-JUL-76	01-JUN-77
SAMPLE NUMBER:	T048	T066	T055	T056	6311

Concentrations in microcuries/gram

A-39

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<1.6E-02		<3.4E-04		<1.4E-04					
14-C	<2.6E-03		1.30E-04	2.90E-05	3.30E-05	1.20E-05				
54-MN	1.40E-01	1.00E-02	5.95E-02	3.00E-03	1.30E-02	1.00E-03	1.24E-02	6.20E-04	1.34E+00	7.00E-02
55-FE										
58-CD	7.40E-02	7.00E-03	1.40E-02	3.50E-03	1.30E-03	1.00E-04	1.38E-03	1.00E-04	<2.1E-02	
60-CD	9.50E-01	9.00E-02	7.30E-01	4.00E-02	4.60E-02	2.30E-03	4.40E-02	2.20E-03	1.96E+01	1.00E+00
59-NI	<2.2E-02		<2.4E-03		<1.2E-03					
63-NI	6.11E-02	5.70E-03	3.16E-02	1.60E-03	2.59E-03	2.33E-04				
90-SR	2.50E-01	1.25E-02	2.53E-01	1.30E-02	7.45E-04	4.47E-05				
95-ZR	1.50E-01	3.00E-02	1.15E-02	5.70E-03	1.00E-03	2.00E-04	9.30E-04	4.65E-05	<3.1E-02	
94-NB	<1.5E-03		<2.4E-02		<9.6E-05					
99-TC	<1.3E-02		<8.3E-04		<3.0E-04					
106-RU	5.80E-02	2.90E-03	3.95E-02	2.00E-03	2.50E-04	1.30E-04	1.90E-04	1.20E-04		
110M-AG					1.20E-04	3.00E-05				
125-SB					<1.3E-04		2.00E-04	1.10E-04		
129-I	<1.5E-03		<2.7E-05		<8.4E-06					
134-CS	3.50E+00	2.00E-01	5.10E+00	2.55E-01	1.15E-02	6.00E-04	1.16E-02	6.00E-04	1.00E+00	1.00E-01
135-CS										
137-CS	5.10E+00	3.00E-01	9.00E+00	4.50E-01	3.20E-02	2.00E-03	3.10E-02	2.00E-03	2.90E+00	1.45E-01
141-CE	1.30E-01	3.00E-02	2.50E-01	1.25E-02	2.00E-03	1.00E-04	1.80E-03	1.00E-04	<1.1E-02	
144-CE	8.30E-01	4.15E-02	2.45E-01	1.23E-02	3.50E-03	3.00E-04	3.40E-03	4.00E-04		
152-EU	7.90E-03	1.00E-03								
154-EU	7.60E-03	1.00E-03	1.90E-03	4.00E-04	3.50E-05	1.00E-05	2.90E-05	1.00E-05		
155-EU	5.70E-03	1.00E-03	1.50E-03	3.00E-04	9.00E-05	3.00E-05	6.00E-05	2.00E-05		
235-U	<2.0E-06		<6.0E-06		<2.0E-06				<3.0E-04	
238-U	<2.0E-06		<6.0E-06		<2.0E-06				<3.0E-04	
238-PU	6.10E-03	9.00E-04	2.70E-03	4.00E-04	5.30E-05	6.00E-06	3.50E-05	5.00E-06	4.80E-04	6.00E-05
239-PU	3.70E-03	5.00E-04	1.00E-03	2.00E-04	1.80E-05	4.00E-06	1.50E-05	4.00E-06	8.60E-04	8.00E-05
241-PU	4.40E-01	8.80E-02	2.97E-01	1.80E-02	<3.1E-03					
241-AM	9.70E-04	1.50E-04	4.70E-04	7.00E-05	1.60E-05	4.00E-06	2.30E-05	3.00E-06	5.30E-04	6.00E-05
242-CM	2.10E-02	2.00E-03	8.00E-03	1.00E-03	6.80E-05	1.10E-05	8.20E-05	1.00E-05	1.80E-03	2.00E-04
244-CM	2.30E-03	5.00E-04	1.30E-03	3.00E-04	8.50E-06	5.00E-07	3.20E-06	4.00E-07	9.00E-04	1.00E-04

# RADIOACTIVE WASTE SAMPLE LISTING

SAI DATABASE

PLANT NAME:	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	
UNIT NUMBER:	0	0	0	0	1
PLANT TYPE:	BWR	BWR	BWR	BWR	PWR
PLANT LOCATION:	SEACOAST	SEACOAST	SEACOAST	SEACOAST	SEACOAST
START-UP DATE:	01-DEC-69	01-DEC-69	01-DEC-69	01-DEC-69	01-DEC-76
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	SMEAR
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	RADWASTE	PRIMARY
SAMPLING DATE:	12-JAN-77	16-MAR-77	02-JUN-77	28-FEB-78	06-JUL-83
SAMPLE NUMBER:	6789	6786	T117	7058	10142

Concentrations in microcuries/gram

A-40

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<2.3E-03		<1.5E-03		3.30E-04	1.80E-04	<7.8E-04			
14-C	2.16E-03	1.30E-04	1.60E-04	2.60E-05	<1.9E-03		4.10E-04	4.50E-05		
54-MN	1.37E+00	7.00E-02	7.03E-01	3.51E-02	1.36E-02	7.00E-04	8.46E-01	4.23E-02	8.90E-02	4.90E-03
55-FE										
58-CO	<6.2E-02		<6.8E-02		<4.4E-03		2.34E-01	1.10E-01	3.59E-01	1.80E-02
60-CO	3.44E+00	1.72E-01	7.58E+00	3.80E-01	2.25E+00	1.12E-01	3.13E+00	1.60E-01	5.29E+00	2.64E-01
59-NI	<9.0E-03		7.20E-03	3.30E-03	<1.9E-04		<3.1E-03			
63-NI	5.35E-02	2.68E-03	1.12E-01	5.60E-03	4.43E-02	2.22E-03	3.69E-02	1.84E-03		
90-BR	4.20E-02	2.10E-03	1.09E-01	5.50E-03	2.34E-03	1.17E-04	2.17E-02	1.10E-03	2.90E-02	1.00E-02
95-ZR	<1.3E-01		<1.4E-01		<8.1E-03		<2.6E-02		4.21E-02	6.20E-03
94-NB	<1.1E-03		<5.5E-04		<1.5E-04		<4.2E-04			
99-TC	<7.6E-05		<3.8E-04		<1.7E-05		<3.9E-05			
106-RU									4.94E-02	3.20E-02
110M-AG									<2.2E-03	
125-SB					4.24E-02	2.12E-03			5.28E-02	4.50E-03
129-I	<6.1E-05		<2.6E-05		<4.0E-05		<1.2E-03			
134-CS	1.92E+00	1.00E-01	2.58E+00	2.50E-01	2.81E-02	1.10E-02	3.09E+00	1.54E-01	<1.1E-03	
135-CS										
137-CS	4.77E+00	2.40E-01	6.75E+00	3.40E-01	1.34E-01	7.00E-03	6.22E+00	3.11E-01	<1.2E-03	
141-CE	<1.8E+00		<1.9E-01		<2.4E-02		<3.5E-02		<6.7E-04	
144-CE	5.44E-02	3.30E-02			1.22E-02	5.50E-03			2.70E-02	1.00E-02
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	8.50E-04	1.00E-04	7.40E-04	1.50E-04	1.40E-04	2.00E-05	8.00E-04	4.00E-05		
239-PU	2.30E-04	2.00E-05	2.70E-04	5.00E-05	1.16E-04	2.50E-05	1.40E-04	1.00E-05		
241-PU	<6.9E-03		<9.2E-03		<5.9E-03		3.40E-03	2.20E-03		
241-AM	2.00E-04	2.00E-05	2.10E-04	4.00E-05	7.40E-04	1.50E-04	2.60E-04	2.00E-05		
242-CM	1.30E-03	1.00E-04	7.00E-03	8.00E-04	4.00E-04	1.00E-04	3.20E-03	2.80E-04		
244-CM	5.50E-04	4.00E-05	4.10E-04	8.00E-05	2.50E-04	1.00E-04	1.20E-03	1.00E-04		

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	QUAD CITIES	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK
UNIT NUMBER:	2	0	0	0	0
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	SEACOAST	SEACOAST	SEACOAST	SEACOAST
START-UP DATE:	01-OCT-72	01-DEC-69	01-DEC-69	01-DEC-69	01-DEC-69
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE
SAMPLE SUB-TYPE:	SECONDARY	PRIMARY	PRIMARY	PRIMARY	PRIMARY
SAMPLING DATE:	01-MAR-78	22-MAR-76	22-MAR-76	07-JUN-76	14-OCT-76
SAMPLE NUMBER:	7063	T004	T006	T030	T069

Concentrations in microcuries/gram

A-41

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<3.9E-04		<3.9E-04						1.62E-03	5.90E-04
14-C	<1.0E-04		9.00E-05	4.70E-05					1.24E-04	4.34E-05
54-MN	2.80E-01	1.40E-02	2.90E-02	2.00E-02	7.20E-02	3.60E-03	2.20E+01	1.10E+00	2.50E-01	1.25E-02
55-FE										
58-CD	1.29E-01	1.00E-02	2.00E-03	1.00E-04	3.40E-03	2.00E-04	5.30E-01	3.00E-02	1.80E-02	1.00E-03
60-CD	3.80E+00	2.00E-01	6.50E-02	3.25E-03	1.30E-01	1.00E-02	2.70E+01	1.35E+00	8.30E-01	4.15E-02
59-NI	<1.3E-03								6.03E-03	3.01E-03
63-NI	1.34E-02	6.70E-04							3.65E-02	1.83E-03
90-SR	2.00E-02	1.00E-03							5.31E-02	2.66E-03
95-ZR	<3.1E-02		5.80E-04	3.00E-05	1.20E-03	1.00E-04	2.30E-01	1.10E-01	<1.1E-03	
94-NB	<1.0E-04								<2.5E-04	
99-TC	<2.9E-04								<8.0E-04	
106-RU							1.60E-01	4.00E-02		
110M-AG	4.90E-02	3.00E-03								
125-SB					2.40E-04	2.00E-05				
129-I	<2.3E-05								<5.9E-05	
134-CS	7.80E+00	4.00E-01	1.40E-02	1.00E-03	9.60E-03	4.80E-04	1.10E+00	2.00E-01	1.40E+00	1.00E-01
135-CS										
137-CS	9.80E+00	5.00E-01	2.90E-02	2.00E-03	2.00E-02	1.00E-03	1.93E+00	9.65E-02	3.10E+00	2.00E-01
141-CE	4.40E-02	1.50E-02					1.70E-01	3.00E-02	6.90E-04	2.70E-04
144-CE			8.90E-03	5.00E-04	2.60E-03	2.00E-04	4.60E-01	8.00E-02	<1.2E-03	
152-EU							3.20E-02	1.00E-02		
154-EU					1.60E-04	1.00E-04	2.60E-02	1.00E-02		
155-EU					8.00E-05	3.00E-05	2.20E-02	1.00E-02		
235-U	<4.0E-08		<2.0E-07		<3.0E-07		<4.0E-06		<1.0E-06	
238-U	<5.2E-08		<2.0E-07		<3.0E-07		<4.0E-06		<1.0E-06	
238-PU	1.40E-04	1.00E-05	8.30E-05	4.15E-06	1.90E-05	4.00E-06	3.00E-03	4.00E-04	4.50E-04	1.00E-04
239-PU	6.40E-05	3.20E-06	3.50E-05	1.50E-05	1.30E-05	3.00E-06	1.40E-03	2.00E-04	7.90E-05	1.00E-05
241-PU	<9.4E-04		1.90E-02	4.90E-03			2.50E-01	1.00E-01	<1.8E-03	
241-AM	3.50E-05	2.00E-06	3.80E-05	1.30E-05	8.50E-06	3.00E-06	4.20E-04	1.00E-04	9.60E-05	1.50E-05
242-CM	2.90E-03	2.00E-04	2.30E-04	4.00E-05	1.80E-05	3.00E-06	1.60E-02	2.00E-03	5.80E-04	7.00E-05
244-CM	1.50E-04	1.00E-05	2.80E-05	6.00E-06	1.50E-06	7.00E-07	2.00E-03	3.00E-04	1.90E-04	3.00E-05

# RADIOACTIVE WASTE SAMPLE LISTING

## SAI DATABASE

PLANT NAME: OYSTER CREEK  
 UNIT NUMBER: 0  
 PLANT TYPE: BWR  
 PLANT LOCATION: SEACOAST  
 START-UP DATE: 01-DEC-69  
 SAMPLE TYPE: FILTER SLUDGE  
 SAMPLE SUB-TYPE: PRIMARY  
 SAMPLING DATE: 16-MAR-77  
 SAMPLE NUMBER: T092

1  
 BWR  
 INLAND  
 01-AUG-74  
 FILTER SLUDGE  
 PRIMARY  
 17 JAN 78  
 6996

1  
 BWR  
 INLAND  
 01-AUG-74  
 FILTER SLUDGE  
 PRIMARY  
 04-APR-78  
 7400

1  
 BWR  
 INLAND  
 01-AUG-74  
 FILTER SLUDGE  
 SECONDARY  
 01-MAY-78  
 7401

MONTICELLO  
 0  
 BWR  
 INLAND  
 01-JUL-71  
 FILTER SLUDGE  
 PRIMARY  
 22-JUN-77  
 6378

Concentrations in microcuries/gram

A-42

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	1.26E-03	4.62E-04	<3.4E-04				<4.1E-04		1.87E-03	1.60E-04
14-C	<4.3E-05		2.83E-04	1.70E-05			6.15E-04	3.10E-05	1.42E-02	7.10E-04
54-MN	1.54E-01	7.70E-03	1.15E-01	6.00E-03	1.19E+01	5.95E-01	1.71E-01	8.55E-03	2.50E-01	1.25E-02
55-FE										
58-CO	2.88E-02	1.44E-03	1.17E-01	6.00E-03	2.35E+01	1.20E+00	2.33E-01	1.20E-02	4.50E-01	2.25E-02
60-CO	7.80E+00	4.00E-01	3.08E-01	1.54E-02	3.07E+01	1.53E+00	4.45E+00	2.22E-01	7.90E+00	4.00E-01
59-NI	4.18E-03	1.92E-03	<2.1E-03				<2.9E-03		<4.5E-04	
63-NI	1.35E-01	6.75E-03	1.64E-02	8.20E-04			1.45E-02	7.30E-04	4.98E-02	2.50E-03
90-BR	6.68E-02	3.34E-03	6.45E-05	2.00E-05	3.39E-02	1.69E-03	2.86E-04	1.43E-05	2.01E-01	1.00E-02
95-ZR	<1.1E-04		6.17E-02	7.70E-03	1.70E+01	1.90E+00	1.81E-01	1.10E-02	7.10E-02	2.10E-02
94-NB	<5.0E-04		<1.2E-04				<1.6E-04		<1.1E-04	
99-TC	<2.8E-04		<4.0E-04				<3.4E-05		<2.9E-04	
106-RU							<1.9E-02		6.00E-02	1.90E-02
110M-AG			7.86E-02	3.93E-03	7.68E+00	1.50E+00	6.13E-02	3.10E-03		
125-SB	1.02E-03	6.70E-04	8.49E-04	6.10E-05	2.41E-01	8.00E-02	2.07E-03	5.70E-04		
129-I	<8.1E-05		<4.3E-05				<3.4E-05		<4.5E-06	
134-CS	1.77E-02	1.00E-03	3.15E-01	1.60E-02	3.55E+00	1.80E-01	1.64E-01	8.20E-03	1.90E+00	9.50E-02
135-CS										
137-CS	4.58E-02	2.30E-03	4.56E-01	2.30E-02	<7.3E-02		1.79E-01	8.95E-03	4.20E+00	2.10E-01
141-CE	<1.7E-04		<9.7E-04		<3.8E-01		<2.6E-03		2.00E-01	2.00E-02
144-CE									1.70E-01	5.00E-02
152-EU										
154-EU										
155-EU										
235-U	<1.0E-07								<3.0E-06	
238-U	<1.0E-07								<3.0E-06	
238-PU	1.30E-06	5.00E-07	1.60E-06	2.00E-07			6.29E-07	1.50E-07	2.10E-03	3.00E-04
239-PU	<6.0E-07		1.30E-06	2.00E-07			2.22E-06	2.70E-07	1.10E-03	1.00E-04
241-PU	2.40E-03	4.30E-04	<8.5E-04				<4.0E-04		1.37E-01	5.00E-03
241-AM	<1.0E-07		4.20E-06	2.10E-07			1.15E-06	2.70E-07	1.90E-04	2.00E-05
242-CM	7.80E-07	8.00E-08	1.90E-06	2.00E-07					6.20E-04	8.00E-05
244-CM	2.60E-07	1.00E-07	4.80E-07	4.00E-08			3.53E-07	1.50E-07	5.20E-04	6.00E-05



# RADIOACTIVE WASTE SAMPLE LISTING

## RAJ DATABASE

PLANT NAME:	MONTICELLO		MONTICELLO		MONTICELLO		MONTICELLO		MONTICELLO	
UNIT NUMBER:	0		0		0		0		0	
PLANT TYPE:	BWR		BWR		BWR		BWR		BWR	
PLANT LOCATION:	INLAND		INLAND		INLAND		INLAND		INLAND	
START-UP DATE:	01-JUL-71		01-JUL-71		01-JUL-71		01-JUL-71		01-JUL-71	
SAMPLE TYPE:	FILTER SLUDGE		FILTER SLUDGE		FILTER SLUDGE		FILTER SLUDGE		FILTER SLUDGE	
SAMPLE SUB-TYPE:	SECONDARY		SECONDARY		PRIMARY		PRIMARY		SECONDARY	
SAMPLING DATE:	05-DEC-77		17-JUN-77		05-DEC-77		06-FEB-78		09-FEB-78	
SAMPLE NUMBER:	6813		6379		6812		7087		7088	

Concentrations in microcuries/gram										
	Value	Unc.	Value	Unc.	Value	Unc.	Value	Unc.	Value	Unc.
3-H	<6. 2E-04		4. 33E-03	9. 96E-04	<3. 7E-04		<4. 2E-04		<2. 0E-04	
14-C	<8. 0E-04		4. 06E-03	2. 03E-04	9. 60E-04	1. 70E-04	2. 80E-04	3. 10E-05	3. 00E-05	8. 10E-06
54-MN	1. 40E+00	1. 00E-01	2. 70E-02	3. 00E-03	3. 00E-01	2. 00E-02	1. 80E+00	9. 00E-02	1. 41E-01	7. 05E-03
55-FE										
58-CD	1. 30E+00	1. 00E-01	4. 88E-02	4. 00E-03	2. 20E-01	1. 20E-02	1. 67E+00	1. 20E-01	1. 21E-01	7. 00E-03
60-CD	3. 10E+01	2. 00E+00	6. 90E-01	4. 00E-02	3. 70E+00	1. 90E-01	3. 67E+01	1. 84E+00	1. 99E+00	1. 00E-01
59-NI	2. 00E-02	3. 00E-03	<8. 9E-04		<1. 8E-03		9. 20E-03	1. 90E-03	<1. 6E-03	
63-NI	1. 97E-01	1. 00E-02	2. 38E-02	1. 19E-03	6. 57E-02	3. 30E-03	4. 63E+00	2. 31E-01	7. 07E-02	3. 53E-03
90-SR	1. 21E-01	8. 00E-03	4. 61E-02	2. 30E-03	3. 60E-02	4. 00E-03	1. 44E-01	7. 20E-03	2. 20E-02	1. 10E-03
93-ZR	2. 80E-01	2. 00E-02	2. 40E-02	8. 00E-03	6. 80E-02	3. 70E-02	5. 00E-01	2. 50E-01	2. 72E-02	1. 40E-02
94-NB	<1. 1E-04		<5. 7E-04		<1. 2E-04		<1. 7E-03		<1. 3E-04	
99-TC	<3. 0E-03				<7. 2E-06		<1. 9E-05		<6. 9E-04	
106-RU					3. 20E-02	2. 00E-03	2. 00E-01	8. 00E-02	1. 77E-02	7. 10E-03
110M-AG										
125-SB										
129-I	<3. 0E-04		<4. 4E-05		<9. 9E-06		<1. 4E-04		<2. 0E-05	
134-CS	3. 60E+00	2. 00E-01	1. 92E+00	1. 00E-01	2. 60E+00	1. 30E-01	9. 80E-01	5. 00E-02	1. 45E+00	7. 25E-02
135-CS										
137-CS	9. 10E+00	5. 00E-01	4. 30E+00	2. 15E-01	6. 80E+00	3. 40E-01	2. 58E+00	1. 30E-01	3. 83E+00	1. 91E-01
141-CE	2. 10E-01	1. 20E-01	1. 91E-01	9. 55E-03	1. 80E-01	1. 00E-02	<3. 8E-01		2. 42E-01	1. 80E-02
144-CE	4. 60E-01	1. 60E-01	4. 30E-02	2. 10E-02	1. 70E-01	5. 00E-02	<2. 7E-01		6. 90E-02	2. 00E-02
152-EU										
154-EU										
155-EU										
235-U			<2. 0E-06							
238-U			<2. 0E-06							
238-PU	3. 70E-03	3. 00E-04	9. 50E-04	1. 20E-04	1. 80E-03	2. 00E-04	6. 00E-03	3. 00E-04	9. 60E-04	5. 00E-05
239-PU	2. 10E-03	2. 00E-04	3. 30E-04	4. 00E-05	9. 40E-04	9. 00E-05	3. 30E-03	2. 00E-04	4. 70E-04	3. 00E-05
241-PU	6. 26E-01	3. 13E-02	<5. 3E-03		9. 50E-03	4. 75E-04	3. 19E-01	1. 60E-02	3. 48E-02	1. 70E-03
241-AM	1. 10E-03	1. 00E-04	2. 80E-04	4. 00E-05	4. 20E-04	3. 00E-05	2. 00E-03	1. 00E-04	4. 30E-04	2. 15E-05
242-CM	7. 20E-03	6. 00E-04	1. 50E-03	1. 00E-04	1. 90E-03	1. 00E-04	1. 48E-02	7. 40E-04	2. 20E-03	1. 10E-04
244-CM	1. 90E-03	1. 00E-04	5. 50E-04	7. 00E-05	7. 40E-04	6. 00E-05	3. 23E-03	3. 00E-04	7. 30E-04	3. 65E-05

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# RADIOACTIVE WASTE SAMPLE LISTING

SAI DATABASE

PLANT NAME:	MONTICELLO	MONTICELLO	MONTICELLO	QUAD CITIES	MONTICELLO
UNIT NUMBER:	0	0	0	2	0
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-JUL-71	01-JUL-71	01-JUL-71	01-OCT-72	01-JUL-71
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	SECONDARY	SECONDARY
SAMPLING DATE:	09-FEB-77	05-AUG-75	04-JUN-76	16-MAR-78	20-JUL-78
SAMPLE NUMBER:	T0B7	T010	T046	7062	7690

Concentrations in microcuries/gram

3-44

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<4. 4E-03		<1. 7E-02		<2. 8E-03		<9. 6E-04		<4. 3E-04	
14-C	<3. 0E-03		<6. 1E-03		<9. 0E-04		3. 80E-03	5. 00E-04	<4. 4E-05	
54-MM	4. 40E+00	2. 20E-01	7. 30E-01	4. 00E-02	5. 80E-01	3. 00E-02	2. 15E-01	1. 10E-02	1. 69E-01	1. 40E-02
55-FE										
58-CO	1. 00E+01	1. 00E+00	6. 10E-01	3. 00E-01	1. 90E+00	1. 00E-01	1. 46E-01	8. 00E-03	2. 85E-01	7. 70E-02
60-CO	2. 12E+02	1. 06E+01	5. 30E+00	3. 00E-01	1. 10E+01	1. 00E+00	3. 01E+00	1. 50E-01	3. 55E+00	1. 80E-01
59-NI	2. 10E-02	3. 00E-03	<1. 5E-03		<2. 0E-03		2. 40E-03	9. 00E-04	<3. 3E-04	
63-NI	4. 64E-01	2. 32E-02	1. 70E-01	2. 20E-02	9. 60E-01	4. 80E-02	2. 81E-02	1. 40E-03	6. 03E-02	3. 00E-04
90-SR	<1. 1E-03		9. 40E-02	1. 90E-02	7. 50E-02	1. 50E-02	9. 51E-03	4. 80E-04	9. 95E-02	5. 00E-03
95-ZR	2. 80E+00	5. 00E-01	9. 70E-01	4. 30E-01	5. 40E-01	2. 70E-02	4. 10E-02	1. 40E-02	<7. 2E-02	
94-NB	<1. 7E-03		<3. 9E-03		<2. 5E-03		<1. 4E-04		<2. 9E-04	
99-TC	1. 00E-03	5. 00E-04	<8. 2E-03		5. 50E-03	8. 00E-04	<2. 0E-04		<2. 5E-04	
106-RU	6. 80E-01	7. 00E-02	4. 80E-01	3. 00E-01	1. 40E-01	7. 00E-02				
110M-AG	5. 60E-01	7. 00E-02					3. 67E-02	9. 90E-03		
125-SB	1. 80E-01	1. 10E-01								
129-I	<2. 7E-05		<1. 6E-03		6. 90E-05	1. 70E-05	<8. 7E-06		<3. 1E-05	
134-CS	4. 34E+01	2. 20E+00	1. 80E+01	1. 00E+00	2. 50E+01	1. 25E+00	4. 32E+00	2. 20E-01	2. 84E+00	1. 42E-01
135-CS										
137-CS	7. 20E+01	3. 60E+00	2. 80E+01	1. 40E+00	3. 20E+01	2. 00E+00	5. 19E+00	2. 60E-01	8. 49E+00	4. 24E-01
141-CE	1. 70E+00	5. 00E-01			3. 60E-01	1. 40E-01	4. 58E-02	1. 45E-02	<8. 0E-01	
144-CE	5. 20E+00	3. 00E-01	2. 30E+00	1. 00E+00	1. 86E+00	5. 00E-01				
152-EU					2. 50E-03	5. 00E-04				
154-EU	3. 90E-01	1. 00E-01	1. 10E-02	3. 00E-03	8. 70E-03	2. 00E-03				
155-EU	3. 60E-01	1. 00E-01	9. 50E-03	3. 00E-03	6. 90E-03	1. 00E-03				
235-U	<3. 0E-06		5. 00E-05	2. 50E-06	<2. 0E-05					
238-U	<3. 0E-06		8. 00E-05	2. 00E-05	2. 00E-05	1. 00E-05				
238-PU	9. 00E-03	1. 20E-03	9. 50E-03	1. 50E-03	2. 80E-02	4. 00E-03	2. 09E-04	1. 05E-05	1. 30E-03	1. 10E-04
239-PU	2. 40E-02	3. 00E-03	7. 50E-03	1. 00E-03	2. 10E-02	3. 00E-03	9. 18E-05	4. 00E-05	6. 46E-04	5. 60E-05
241-PU	3. 20E+00	4. 00E-01	9. 76E-01	1. 40E-01	6. 40E-01	1. 30E-01	7. 30E-02	1. 10E-02	<4. 5E-02	
241-AM	1. 56E-03	2. 50E-04	6. 60E-04	1. 00E-04	1. 70E-03	3. 00E-04	3. 80E-05	2. 00E-06	7. 27E-04	3. 64E-05
242-CM	3. 70E-03	2. 50E-03	1. 00E-02	1. 00E-03	3. 10E-02	4. 00E-03	1. 80E-04	1. 00E-05	1. 21E-03	6. 05E-05
244-CM	3. 50E-03	6. 00E-04	4. 60E-04	1. 20E-04	3. 60E-03	4. 00E-04	1. 80E-04	1. 00E-05	8. 99E-04	4. 50E-05

# RADIOACTIVE WASTE SAMPLE LISTING

## SAI DATABASE

PLANT NAME:	MONTICELLO	MONTICELLO	MONTICELLO	MONTICELLO	OYSTER CREEK
UNIT NUMBER:	0	0	0	0	0
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	SEACOAST
START-UP DATE:	01-JUL-71	01-JUL-71	01-JUL-71	01-JUL-71	01-DEC-69
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	SECONDARY	PRIMARY	PRIMARY
SAMPLING DATE:	20-JUL-78	04-DEC-78	10-JUL-79	03-JUL-79	31-MAY-78
SAMPLE NUMBER:	7686	7813	7913	7915	7456

Concentrations in microcuries/gram

A-45

	<u>Value</u>	<u>Unc.</u>		<u>Value</u>	<u>Unc.</u>		<u>Value</u>	<u>Unc.</u>		<u>Value</u>	<u>Unc.</u>
3-H	<1.9E-03		9.20E-04	2.60E-04		1.30E-03	4.20E-04		5.00E-04	5.00E-05	
14-C	<6.0E-04		8.20E-04	4.10E-05		4.46E-03	2.23E-04		<8.0E-04		
54-MN	2.09E+00	2.60E-01	5.90E-01	2.95E-02		8.15E-02	6.00E-03		1.18E+00	6.00E-02	6.85E-01 3.42E-02
55-FE											
58-CO	<5.2E-01		7.52E-01	7.70E-02		5.68E-02	1.06E-02		1.40E+00	7.00E-02	<1.9E-02
60-CO	5.75E+01	2.90E+00	7.88E+00	3.94E-01		9.97E-01	5.00E-02		1.67E+01	8.35E-01	2.79E+00 1.40E-01
59-NI	8.60E-03	1.50E-03	1.90E-03	6.90E-04		<3.7E-03			3.40E-03	1.20E-03	
63-NI	3.20E-01	1.60E-02	1.40E-01	7.00E-03		1.06E-01	5.30E-03		1.41E-01	7.05E-03	
90-SR	2.50E-01	1.25E-02	8.80E-02	4.40E-03		4.82E-02	2.41E-03		6.19E-02	3.10E-03	
95-ZR	<9.6E-01		<6.8E-02			<9.4E-03			<5.3E-02		<3.3E-02
94-NB	<5.6E-05		<1.3E-04			<2.5E-04			<4.6E-05		
99-TC	<2.5E-03		<3.7E-04			<2.3E-04			<1.6E-03		
106-RU											
110M-AG											
125-SB											
129-I	<3.3E-04		<1.8E-05			<4.8E-05			<4.1E-04		
134-CS	7.08E-01	1.42E-01	1.26E+00	6.30E-02		2.30E+00	1.60E-01		2.26E+00	1.13E-01	1.96E+00 1.00E-01
135-CS											
137-CS	2.39E+00	1.50E-01	4.24E+00	2.12E-01		9.62E+00	4.81E-01		9.33E+00	4.70E-01	4.89E+00 2.44E-01
141-CE	<3.2E+00		9.54E-01	5.79E-01		1.21E-01	5.40E-02		<8.4E-02		<5.3E-02
144-CE	1.19E+00	5.40E-01	1.46E+00	9.40E-01							
152-EU											
154-EU											
155-EU											
235-U											
238-U											
238-PU	8.25E-03	4.12E-04	1.74E-03	1.00E-04		7.79E-04	3.90E-05		1.72E-03	1.00E-04	6.12E-04 3.10E-05
239-PU	5.37E-03	2.67E-04	1.24E-03	7.00E-04		3.36E-04	1.70E-05		9.32E-04	5.60E-05	1.40E-04 7.00E-06
241-PU	3.95E-01	7.00E-02	1.48E-01	7.40E-03		2.66E-02	1.30E-04		6.75E-02	5.70E-03	
241-AM	2.39E-03	1.20E-04	1.59E-04	2.80E-05		3.60E-04	1.80E-05		7.31E-04	3.70E-05	
242-CM	9.79E-03	4.90E-04	6.73E-04	1.14E-04		1.02E-03	5.10E-05		2.61E-03	1.31E-04	
244-CM	3.23E-03	1.61E-04	2.15E-04	3.90E-05		4.51E-04	2.30E-05		9.80E-04	4.90E-05	

# RADIOACTIVE WASTE SAMPLE LISTING

## SAI DATABASE

PLANT NAME:	MILLSTONE				QUAD CITIES
UNIT NUMBER:	1	1	J	1	1
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	SEACOAST	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-70	01-AUG-74	01-AUG-74	01-AUG-74	01-AUG-72
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE
SAMPLE SUB-TYPE:	PRIMARY	SECONDARY	PRIMARY	SECONDARY	PRIMARY
SAMPLING DATE:	02-AUG-78	22-JUL-78	17-JUL-78	01-FEB-79	14-MAR-78
SAMPLE NUMBER:	7449	7588	7589	8002	7151

Concentrations in microcuries/gram

A-46

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<1. 1E-02		<7. 4E-04				6. 75E-03	2. 16E-03	<8. 7E-04	
14-C	<5. 0E-03		<7. 8E-05				9. 93E-03	1. 79E-04	<2. 0E-03	
54-MN	8. 93E+00	4. 50E-01	4. 19E-01	2. 10E-02	1. 19E+01	6. 00E-01	1. 39E-01	7. 00E-03	1. 23E-01	1. 50E-02
55-FE										
58-CD	1. 48E-01	3. 80E-02	5. 75E-01	2. 90E-02	1. 68E+01	1. 10E+00	1. 71E-01	3. 40E-02	<1. 1E-02	
60-CD	2. 32E+01	1. 20E+00	1. 09E+00	5. 45E-02	2. 52E+01	1. 26E+00	5. 49E-01	2. 75E-02	3. 37E+00	1. 70E-01
59-NI	2. 45E-02	3. 80E-03	<3. 9E-03				1. 87E-02	1. 10E-02	<1. 8E-03	
63-NI	4. 30E-01	2. 20E-02	2. 40E-02	1. 20E-03			9. 27E-03	2. 69E-03	1. 89E-02	1. 00E-03
90-SR	1. 70E-01	8. 50E-03	1. 15E-03	1. 15E-04			3. 33E-04	2. 00E-04	2. 54E-02	1. 30E-03
95-ZR	<2. 9E-02		5. 89E-01	8. 50E-02	1. 57E+01	4. 30E+00	1. 43E-01	6. 20E-02	<1. 8E-02	
94-NB	<1. 7E-03		<7. 6E-04						<1. 6E-04	
99-TC	<1. 3E-03								7. 20E-04	4. 60E-04
106-RU	1. 34E-01	5. 10E-02								
110M-AG			2. 34E-01	1. 20E-02	6. 90E+00	4. 00E-01	8. 51E-02	4. 26E-03	1. 72E-02	1. 14E-02
125-SB	2. 81E-02	1. 86E-02	7. 69E-03	3. 84E-04			2. 11E-02	7. 50E-03		
129-I	<3. 2E-04		<4. 6E-05				<2. 2E-04		<2. 9E-05	
134-CS	1. 23E+00	9. 00E-02	4. 64E-01	2. 32E-02	1. 23E+01	9. 00E-01	2. 12E-01	1. 10E-02	2. 64E+00	1. 32E-01
135-CS										
137-CS	2. 18E+00	1. 10E-01	4. 49E-01	2. 25E-02	1. 63E+01	8. 15E-01	1. 83E-01	9. 15E-03	4. 98E+00	2. 50E-01
141-CE	<2. 2E-02		<1. 7E-02		<2. 0E+00		<3. 0E-01		<2. 9E-02	
144-CE	2. 35E-01	1. 09E-01								
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	2. 67E-03	1. 33E-04	7. 17E-06	4. 10E-07	9. 14E-04	5. 50E-05	4. 54E-05	2. 30E-06	9. 71E-05	4. 90E-06
239-PU	1. 37E-03	7. 00E-04	2. 53E-06	2. 40E-07	3. 18E-04	2. 60E-05	2. 62E-05	1. 31E-06	3. 22E-05	3. 00E-06
241-PU	6. 87E-02	9. 00E-03					4. 90E-03	3. 92E-04	<9. 0E-04	
241-AM	9. 55E-04	1. 20E-04	3. 02E-05	6. 60E-06	1. 44E-03	1. 90E-04	1. 46E-05	9. 00E-07	4. 92E-06	6. 00E-07
242-CM	1. 23E-02	1. 20E-03	<2. 4E-05		3. 69E-02	1. 84E-03	1. 65E-04	8. 25E-06	3. 96E-05	4. 00E-06
244-CM	2. 17E-03	2. 50E-04	<3. 6E-06		1. 56E-03	2. 00E-04	1. 56E-05	8. 00E-07	5. 98E-06	5. 80E-07

RADIOACTIVE WASTE SAMPLE LISTING

SAJ DATABASE

PLANT NAME:	QUAD CITIES	QUAD CITIES	QUAD CITIES	QUAD CITIES	BIG ROCK POINT
UNIT NUMBER:	1	1	1	1	0
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-AUG-72	01-AUG-72	01-AUG-72	01-AUG-72	01-DEC-62
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	RESIN
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	PRIMARY	PRIMARY
SAMPLING DATE:	14-MAR-78	11-AUG-78	08-DEC-78	06-JUL-79	17-APR-75
SAMPLE NUMBER:	7150	7493	7674	8023	T011

Concentrations in microcuries/gram

A-47

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<7.2E-03				<2.6E-04		<9.1E-04			
14-C	<2.0E-03				4.19E-04	2.50E-05	3.50E-04	4.60E-05		
54-MN	1.20E-01	1.30E-02	2.97E-02	1.60E-03	3.60E-02	2.40E-03	9.90E+01	1.20E+01	6.00E-01	3.00E-02
55-FE										
58-CO	<9.5E-03		1.59E-02	2.80E-03	2.61E-02	4.30E-03	<9.8E-01			
60-CO	3.48E+00	1.74E-01	5.48E-01	2.74E-02	9.14E-01	4.60E-02	3.29E+02	6.03E-01	6.30E+00	3.15E-01
59-NI	1.64E-02	3.30E-03			<1.8E-03		2.00E-02	3.40E-03		
63-NI	3.60E-01	1.80E-01			9.43E-03	4.70E-04	1.16E+00	5.80E-02		
90-SR	2.30E-02	1.15E-03			9.79E-02	4.90E-03	1.09E-02	5.45E-04		
95-ZR	<1.6E-02		<2.3E-03		<3.5E-03		<1.8E+00			
94-NB	<4.3E-04				<9.9E-05		<5.7E-04			
99-TC	2.90E-02	5.00E-03			<3.4E-04		<6.2E-04			
106-RU										
110M-AG	4.21E-02	1.80E-02	5.74E-03	3.50E-03	5.75E-03	3.43E-03				
125-SB										
129-I	2.50E-04	9.00E-05			<5.5E-06		<4.3E-05			
134-CS	2.70E+00	1.35E-01	8.62E-01	4.31E-02	9.91E-01	4.96E-02	1.80E+02	7.40E+00	2.10E+00	1.05E-01
135-CS										
137-CS	5.13E+00	2.60E-01	1.20E+00	6.00E-02	1.97E+00	1.00E-01	3.29E+02	2.38E+00	3.20E+00	2.00E-01
141-CE	<2.5E-02		<5.4E-03		1.11E-01	1.50E-02	<3.4E+00			
144-CE					4.69E-02	2.85E-02			4.90E-02	2.00E-02
152-EU										
154-EU										
155-EU										
235-U									<4.0E-07	
238-U									<4.0E-07	
238-PU	1.00E-05	5.00E-06			1.54E-04	1.30E-05	1.14E-02	5.70E-04	1.80E-04	2.00E-05
239-PU	2.50E-05	2.00E-06			5.14E-05	5.50E-06	5.49E-03	2.70E-04	1.10E-04	2.00E-05
241-PU	<2.0E-03				<2.4E-04		6.70E-01	1.30E-01		
241-AM	4.40E-06	2.20E-07			1.30E-05	4.00E-06	4.73E-03	2.40E-04	6.20E-05	8.00E-06
242-CM	3.30E-05	3.00E-06	1.96E-04	2.00E-05	<5.5E-04		1.22E-01	6.10E-03	<1.0E-05	
244-CM	5.30E-06	5.00E-07	2.32E-05	3.30E-06	4.16E-05	7.70E-06	5.85E-03	2.90E-04	<1.0E-05	

RADIOACTIVE WASTE SAMPLE LISTING  
SAI DATABASE

PLANT NAME:	BIG ROCK POINT	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK
UNIT NUMBER:	0	0	0	0	0
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	SEACOAST	SEACOAST	SEACOAST	SEACOAST
START-UP DATE:	01-DEC-62	01-DEC-69	01-DEC-69	01-DEC-69	01-DEC-69
SAMPLE TYPE:	RESIN	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	RESIN	RESIN
SAMPLE SUB-TYPE:	RADWASTE	SOLID	SOLID	PRIMARY	SECONDARY
SAMPLING DATE:	20-FEB-76	26-AUG-75	03-JUN-76	22-MAR-76	23-MAR-76
SAMPLE NUMBER:	T038	T009	T029	T003	T007

Concentrations in microcuries/gram

A-48

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	8.80E-03	8.00E-04							<2.7E-03	
14-C	5.40E-02	2.70E-03							<1.7E-03	
54-MN	2.70E-01	4.00E-02	5.30E+01	3.00E+00	1.70E-02	1.00E-03	1.00E+00	1.00E-01	2.80E-01	2.00E-02
55-FE										
58-CO	<2.4E+00		3.10E+00	2.00E-01	3.90E-04	2.00E-05	3.20E-01	2.00E-02	1.90E-02	1.00E-03
60-CO	3.20E+01	2.00E+00	3.90E+01	4.00E+00	2.60E-02	1.30E-03	9.00E+00	4.50E-01	7.00E-01	4.00E-02
59-NI	1.26E-01	8.00E-03							<7.5E-04	
63-NI	1.10E+01	1.00E+00							2.90E-03	1.45E-04
90-SR	1.80E+00	9.00E-02							1.30E-01	6.50E-03
95-ZR					1.20E-04	3.00E-05			5.70E-03	3.00E-04
94-NB	<4.6E-04								<5.9E-04	
99-TC	<8.8E-03								<6.4E-04	
106-RU	1.10E-01	4.00E-02	6.00E-01	3.00E-02	1.40E-04	3.00E-05				
110M-AG										
125-SB					4.50E-04	2.20E-04				
129-I	<1.1E-05								<5.4E-05	
134-CS	7.30E+00	3.65E-01	1.40E+00	1.00E-01	9.90E-04	8.00E-05	1.35E+00	1.00E-01	2.80E-02	2.00E-03
135-CS										
137-CS	6.30E+01	3.15E+00	2.10E+00	1.05E-01	2.20E-03	1.10E-04	3.80E+00	2.00E-01	5.10E-02	3.00E-03
141-CE					4.90E-03	2.45E-04			2.10E-02	1.05E-03
144-CE	1.00E-01	3.00E-02	3.10E+00	2.00E-01	5.00E-03	5.00E-04	4.00E-02	2.00E-02	1.20E-02	1.00E-03
152-EU										
154-EU	3.90E-04	2.00E-04	3.40E-02	1.00E-02	2.60E-04	1.00E-04				
155-EU	5.20E-04	2.00E-04	3.00E-02	1.00E-02	3.90E-04	1.00E-04				
235-U	1.20E-06	3.00E-07	<3.0E-07		<4.0E-10		<1.0E-06		<3.0E-07	
238-U	1.80E-06	3.00E-07	<3.0E-07		<4.0E-10		<1.0E-06		<3.0E-07	
238-PU	1.30E-03	2.00E-04	2.80E-03	5.00E-04	2.60E-05	2.00E-06	4.10E-04	2.05E-05	7.10E-06	1.00E-06
239-PU	1.70E-03	2.00E-04	1.40E-03	2.00E-04	1.10E-05	4.00E-06	2.40E-04	4.00E-05	3.20E-06	1.00E-06
241-PU	7.49E-01	3.75E-02					1.60E-01	1.00E-01	3.80E-04	8.00E-05
241-AM	3.70E-04	4.00E-05	1.00E-04	2.00E-05	9.00E-06	1.50E-06	7.10E-05	2.00E-05	2.00E-06	1.00E-06
242-CM	2.20E-04	3.00E-05	2.80E-03	4.00E-04	1.30E-04	2.00E-05	2.10E-04	4.00E-05	5.00E-06	1.00E-06
244-CM	3.60E-04	4.00E-05	2.00E-04	4.00E-05	2.30E-05	5.00E-06	2.20E-05	1.40E-05	5.00E-07	3.00E-08

# RADIOACTIVE WASTE SAMPLE LISTING

S A I   D A T A B A S E

PLANT NAME:	PILGRIM	PILGRIM	PILGRIM	LA CROSSE	OYSTER CREEK
UNIT NUMBER:	0	0	0	0	0
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	SEACOAST	SEACOAST	SEACOAST	INLAND	SEACOAST
START-UP DATE:	01-DEC-72	01-DEC-72	01-DEC-72	01-NOV-69	01-DEC-69
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RFSIN
SAMPLE SUB-TYPE:	PRIMARY	RADWASTI	SECONDARY	PRIMARY	PRIMARY
SAMPLING DATE:	24-JUN-76	26-JUL-76	26-JUL-76	08-SEP-77	22-JUN-78
SAMPLE NUMBER:	T051	T054	T052	T112	7450

Concentrations in microcuries/gram

A-49

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<1.9E-03		<3.8E-04				<1.5E-03		<6.7E-03	
14-C	1.10E-02	2.20E-03	9.10E-05	1.40E-05			7.20E-04	1.70E-04	1.50E-03	2.00E-04
34-MN	1.40E-01	1.00E-02	1.84E-02	9.20E-04	6.80E-03	3.40E-03	1.20E+00	9.00E-02	4.77E+00	2.40E-01
35-FE										
38-CO	5.90E-02	4.00E-03	1.60E-03	8.00E-05	1.40E-04	5.00E-05	4.80E+01	2.40E+00	<1.3E-01	
60-CO	1.55E+00	8.00E-02	1.20E-01	2.00E-02	2.90E-02	1.45E-03	1.73E+01	2.50E+00	9.06E+01	4.53E+00
59-NI	<1.0E-03		<3.1E-03				4.49E-02	3.10E-03	1.00E-02	2.00E-03
63-NI	6.41E-02	3.20E-03	2.60E-03	4.70E-04			3.00E+00	1.50E-01	3.95E-01	2.00E-02
90-SR	1.18E-01	5.90E-03	9.87E-03	4.90E-04			1.45E+01	1.50E+00	3.46E-03	1.73E-04
93-ZR					5.20E-04	5.00E-05	3.60E+00	4.00E-01		
94-NB	<4.9E-03		<1.7E-04				<3.7E-04		<1.5E-02	
99-TC	<1.0E-03		<1.7E-04				1.60E-04	8.70E-05	5.30E-03	9.00E-04
106-RU					1.90E-04	1.00E-05	5.70E-01	2.10E-01		
110M-AG							<4.3E-01			
125-SB										
129-I	<6.3E-04		<4.8E-05				3.23E-06	1.50E-06	3.60E-04	5.00E-05
134-CS	2.20E+00	1.10E-01	7.30E-01	4.00E-02	1.64E-02	8.20E-04	1.12E+02	9.00E+00	3.36E+01	1.70E+00
135-CS										
137-CS	5.00E+00	2.50E-01	1.89E+00	9.45E-02	5.30E-02	3.00E-03	1.88E+02	9.40E+00	6.59E+01	3.30E+00
141-CE			<2.7E-03		2.60E-02	1.30E-03	1.24E+00	1.90E-01	<3.5E-01	
144-CE	1.50E-02	5.00E-03	<9.0E-03		4.40E-03	4.00E-04	1.23E+01	6.15E-01		
152-EU			2.50E-04	1.00E-04						
154-EU	1.00E-04	3.00E-05	1.70E-04	1.00E-04						
155-EU	8.70E-05	2.00E-05	1.60E-04	1.00E-04						
235-U	<2.0E-07		<2.0E-07		<2.0E-07		4.00E-05	2.00E-05		
238-U	<2.0E-07		<2.0E-07		<2.0E-07		9.00E-05	4.00E-05		
238-PU	5.40E-05	5.00E-06	5.70E-06	6.00E-07	5.00E-06	6.00E-07	3.00E-03	2.00E-03	3.01E-04	1.51E-05
239-PU	5.30E-05	5.00E-06	5.40E-06	6.00E-07	3.10E-06	4.00E-07	2.60E-02	1.30E-03	3.64E-04	1.82E-05
241-PU	6.45E-03	4.47E-04	4.50E-04	2.10E-04			<6.5E-02		1.51E-02	1.60E-03
241-AM	1.10E-05	3.00E-06	7.40E-06	1.00E-06	2.10E-06	3.00E-07	1.50E-02	5.00E-03	2.61E-04	1.31E-05
242-CM	8.90E-05	1.10E-05	1.80E-05	2.00E-06	1.80E-05	2.00E-06	8.10E-01	8.00E-02	7.63E-04	3.81E-05
244-CM	8.80E-06	9.00E-07	5.00E-07	3.00E-07	1.10E-06	2.00E-07	1.20E-02	1.00E-03	1.34E-04	7.00E-06

# RADIOACTIVE WASTE SAMPLE LISTING

SAI DATABASE

PLANT NAME:	MILLSTONE	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK
UNIT NUMBER:	1	0	0	0	0
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	SEACOAST	SEACOAST	SEACOAST	SEACOAST	SEACOAST
START-UP DATE:	01-DEC-70	01-DEC-69	01-DEC-69	01-DEC-69	01-DEC-69
SAMPLE TYPE:	RESIN	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS
SAMPLE SUB-TYPE:	PRIMARY	SOLID	SOLID	SOLID	SOLID
SAMPLING DATE:	02-AUG-78	19-OCT-76	03-MAR-77	28-APR-77	27-SEP-77
SAMPLE NUMRER:	7452	T070	T091	67B7	6792

Concentrations in microcuries/gram

A-50

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<3.1E-02		5.27E-03	2.69E-03	<9.3E-03				<1.4E-03	
14-C	<1.5E-02		<2.4E-04		<3.2E-03				1.54E-02	7.70E-04
54-MN	8.13E-01	4.10E-02	5.40E-03	3.00E-04	2.70E+00	1.35E-01	<8.4E-06		6.31E+00	3.20E-01
55-FE										
58-CD	1.91E-02	4.40E-03	1.60E-04	5.00E-05	<2.9E-02		<5.3E-05		1.43E-01	4.20E-02
60-CD	2.48E+00	1.24E-01	2.50E-02	1.25E-03	1.67E+01	8.35E-01	4.51E-05	1.00E-05	1.80E-01	9.00E-03
59-NI	3.20E-02	5.00E-03	<1.3E-02		<4.6E-03				<3.4E-03	
63-NI	1.41E+00	7.05E-02	1.81E-02	2.17E-03	6.69E-02	3.35E-03			1.21E-01	6.00E-03
90-SF	3.50E+00	1.80E-01	8.89E-02	4.45E-03	5.41E-02	2.71E-03			2.56E-01	1.30E-02
95-ZR	<3.3E-03		<3.0E-05		<4.8E-02		<1.4E-04		1.97E-01	8.90E-02
94-NB	<7.2E-04		<1.0E-03		<1.5E-03				<4.1E-04	
99-TC	<6.1E-03		<3.1E-04		<1.0E-03				<2.2E-04	
106-RU	1.70E-02	6.50E-03							1.14E-01	3.80E-02
110M-AG	7.39E-03	1.26E-03								
125-SB	<3.6E-03		3.10E-04	8.00E-05	6.40E-02	3.80E-02			1.27E-04	1.10E-05
129-I	<2.1E-04		<2.8E-04		<3.7E-03					
134-CS	3.61E-01	1.81E-02	1.10E-02	5.00E-03	1.50E-01	1.00E-02	8.88E-03	4.44E-04	1.28E-01	2.30E-02
135-CS										
137-CS	6.17E-01	3.10E-02	2.60E-02	1.30E-03	4.60E-01	2.30E-02	2.59E-02	1.00E-03	2.79E-01	1.90E-02
141-CE	<5.3E-03		1.80E-03	1.50E-04	2.00E-01	1.10E-01	<1.8E-03		<3.7E-02	
144-CE	2.51E-02	6.50E-03	<1.8E-04						2.10E-01	7.40E-02
152-EU										
154-EU										
155-EU										
235-U			<4.0E-04		<2.0E-05					
238-U			<4.0E-06		<2.0E-05					
238-PU	9.09E-03	4.54E-04	1.40E-04	2.00E-05	1.14E-03	1.50E-04	1.32E-04	3.10E-05	1.91E-04	1.10E-05
239-PU	5.32E-03	2.70E-04	6.40E-05	1.00E-05	7.20E-04	1.00E-04	1.02E-04	3.10E-05	9.33E-04	7.40E-05
241-PU	1.80E-01	9.00E-02	<6.6E-03		<6.3E-03				9.60E-02	3.00E-02
241-AM	2.78E-03	1.80E-04	6.20E-05	1.00E-05	4.10E-04	6.00E-05	4.08E-05	2.04E-06	4.77E-04	3.20E-05
242-CM	1.26E-02	8.00E-04	5.80E-04	8.00E-05	2.90E-03	3.00E-04	1.73E-04	3.10E-05	8.69E-03	5.30E-04
244-CM	2.18E-02	1.40E-03	2.60E-04	4.00E-05	1.40E-03	2.00E-04	4.55E-05	9.40E-06	2.44E-03	2.10E-04



# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	OYSTER CREEK	MILLSTONE	OYSTER CREEK	OYSTER CREEK	MILLSTONE
UNIT NUMBER:	0	1	0	0	1
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	SEACOAST	SEACOAST	SEACOAST	SEACOAST	SEACOAST
START-UP DATE:	01-DEC-69	01-DEC-70	01-DEC-69	01-DEC-69	01-DEC-70
SAMPLE TYPE:	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS
SAMPLE SUB-TYPE:	LIGUID	SOLID	SOLID	SOLID	SOLID
SAMPLING DATE:	16-MAR-77	06-DEC-77	22-MAR-76	28-FEB-78	10-JUL-78
SAMPLE NUMBER:	6790	6827	T005	7014	7448

Concentrations in microcuries/gram

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
A-51										
3-H			<1.7E-07						<2.5E-03	
14-C			2.00E-03	7.80E-04					4.10E-02	3.70E-03
54-MN	<1.3E-06		8.65E-01	4.32E-02	3.10E-01	2.00E-02	2.61E+00	1.31E-01	1.19E-01	6.00E-03
55-FE										
58-CD	<1.1E-05		8.84E-02	1.50E-02	4.40E-02	2.20E-03	<3.4E-02		3.13E-02	2.80E-03
60-CD	3.76E-06	8.00E-07	1.85E+00	9.25E-02	1.40E+00	1.00E-01	1.02E+01	5.10E-01	6.20E-01	3.10E-02
59-NI			<3.9E-02						<3.9E-03	
63-NI			2.04E-01	1.02E-02					4.10E-03	2.50E-03
90-SR			6.20E-03	2.20E-03			<1.5E-06		5.33E-03	2.70E-04
95-ZR	<2.4E-05		<9.8E-03		5.30E-03	3.00E-04	<1.6E-02		<2.7E-03	
94-NB			<4.2E-03						<1.0E-03	
99-TC			<2.2E-04						<6.8E-04	
106-RU							4.89E-02	3.00E-02		
110M-AG					8.30E-03	5.00E-04				
125-SB										
129-I			<3.5E-03						<1.1E-03	
134-CS	6.53E-06	1.60E-06	1.22E-01	1.10E-02	3.60E-01	2.00E-02	9.85E-02	1.50E-02	2.49E-01	1.25E-02
135-CS										
137-CS	1.47E-05	2.10E-06	2.12E-01	1.30E-02	7.20E-01	4.00E-02	2.38E-01	1.70E-02	3.78E-01	1.90E-02
141-CE	<3.3E-04		5.70E-02	9.60E-03	5.50E-03	3.00E-04	4.27E-01	2.14E-02	3.86E-02	3.70E-03
144-CE					4.60E-02	3.00E-03	1.24E-01	3.10E-02	8.29E-03	5.55E-03
152-EU					1.90E-03	1.00E-03				
154-EU					3.00E-03	1.00E-03				
155-EU					1.90E-03	1.00E-03				
235-U					<3.0E-07					
238-U					<3.0E-07					
238-PU	8.21E-02	2.20E-02	2.06E-04	2.10E-05	1.70E-04	3.00E-05	3.24E-05	2.70E-06	8.61E-05	4.30E-06
239-PU	1.20E-02	2.20E-03	1.10E-04	1.90E-05	5.90E-05	2.95E-06	1.76E-05	2.70E-06	2.87E-05	1.50E-06
241-PU			<2.5E-02						<5.3E-03	
241-AM	1.26E-02	2.20E-03	5.21E-05	3.70E-06	1.50E-05	3.00E-06	9.59E-05	5.40E-06	1.18E-04	1.50E-05
242-CM	5.09E-02	1.10E-02	1.15E-03	7.00E-05	2.50E-04	4.00E-05	1.89E-05	4.10E-06	7.69E-04	6.40E-05
244-CM	1.04E-02	2.20E-03	1.02E-04	1.10E-05	2.60E-05	5.00E-06	1.00E-05	2.00E-06	9.33E-05	1.34E-05

RADIOACTIVE WASTE SAMPLE LISTING  
SAI DATABASE

PLANT NAME:	MILLSTONE	BIG ROCK POINT	BIG ROCK POINT	BIG ROCK POINT	BIG ROCK POINT
UNIT NUMBER:	2	0	0	0	0
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	SEACOAST	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-75	01-DEC-62	01-DEC-62	01-DEC-62	01-DEC-62
SAMPLE TYPE:	EVAPORATOR BOTTOMS	CRUD	CRUD	CRUD	CRUD
SAMPLE SUB-TYPE:	SOLID	SECONDARY	SECONDARY	SECONDARY	SECONDARY
SAMPLING DATE:	11-JUL-78	25-JUN-76	04-AUG-77	04-AUG-77	04-AUG-77
SAMPLE NUMBER:	7446	6821	6816	6817	6818

Concentrations in microcuries/gram

A-52

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	4.78E-02	4.70E-03	3.10E-02	2.00E-03	<9.0E-03		3.60E-03	4.00E-04	1.70E-03	5.00E-04
55-FE										
58-CO	2.40E-01	1.20E-02	<3.4E-02		<2.6E-04		<4.8E-04		<6.0E-04	
60-CO	2.27E-01	1.14E-02	8.90E-02	5.00E-03	9.10E-03	6.00E-04	4.80E-02	2.40E-03	4.10E-02	2.05E-03
59-NI										
63-NI										
90-SR	1.42E-02	7.10E-04								
95-ZR	1.95E-02	4.70E-03	<8.6E-02		<5.6E-04		<6.0E-04		<1.0E-03	
94-NB										
99-TC										
106-RU										
110M-AG	1.88E-02	1.80E-03								
125-SB										
129-I										
134-CS	1.87E-01	9.35E-03	<1.8E-04				8.90E-03	6.00E-04	<1.3E-04	
135-CS										
137-CS	3.50E-01	1.75E-02	<1.3E-04		5.60E-04	1.10E-04	7.00E-02	4.00E-03	5.00E-03	4.00E-04
141-CE	<4.3E-03		<7.9E+00				<2.2E-03		<1.7E-03	
144-CE										
152-EU										
154-EU										
155-EU										
239-U										
238-U										
238-PU	7.26E-04	4.40E-05	3.00E-05	4.00E-06	2.00E-06	1.00E-06	<6.0E-07		2.70E-05	5.00E-06
239-PU	2.96E-04	2.40E-05	5.80E-05	8.00E-06	8.30E-06	2.00E-06	6.30E-06	2.00E-06	3.50E-05	5.00E-06
241-PU										
241-AM	4.17E-04	7.50E-05	2.10E-05	3.00E-06	6.00E-06	2.00E-06	3.60E-06	1.50E-06	1.20E-05	2.00E-06
242-CM	1.15E-03	2.30E-04	1.50E-06	4.00E-07	1.60E-05	1.00E-05	<1.2E-06		8.10E-07	2.50E-07
244-CM	1.26E-04	2.90E-05	8.10E-07	1.50E-07	2.00E-06	1.00E-06	<6.0E-07		5.70E-07	1.50E-07

# RADIOACTIVE WASTE SAMPLE LISTING

S A T D A T A B A S E

PLANT NAME:	BIG ROCK POINT	BIG ROCK POINT	BIG ROCK POINT	BIG ROCK POINT	BIG ROCK POINT
UNIT NUMBER:	0	0	0	0	0
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-62	01-DEC-62	01-DEC-62	01-DEC-62	01-DEC-62
SAMPLE TYPE:	CRUD	CRUD	CRUD	CRUD	CRUD
SAMPLE SUB-TYPE:	SECONDARY	SECONDARY	PRIMARY	SECONDARY	SECONDARY
SAMPLING DATE:	04-AUG-77	03-AUG-77	22-FEB-76	05-MAR-76	09-FEB-76
SAMPLE NUMBER:	6819	6823	7025	7023	7024

Concentrations in microcuries/gram

A-53

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	3.30E-04	1.00E-04	<4.8E-05		4.10E+01	2.05E+00	9.80E-01	5.00E-02	<6.4E-02	
55-FE										
58-CD	<1.2E-04		<1.4E-04		1.90E+01	1.00E+00				
60-CD	1.00E-02	5.00E-04	8.90E-03	5.00E-04	3.50E+02	2.00E+01	5.60E+00	3.00E-01	3.20E-01	1.60E-02
59-NI										
63-NI										
90-SR										
95-ZR	<2.0E-04		<2.4E-04		2.90E+00	9.00E-01				
94-NB										
99-TC										
106-RU										
110M-AG	3.40E-04	2.00E-04								
125-SB					7.80E-01	2.10E-01	1.80E-02	7.00E-03		
129-I										
134-CS	1.20E-04	3.00E-05	<2.5E-05				2.80E-01	1.40E-02		
135-CS										
137-CS	9.50E-04	7.00E-05	<3.0E-05				5.90E-01	3.00E-02	3.40E-03	1.70E-03
141-CE	2.30E-03	8.00E-04	<4.1E-04						2.60E-03	6.00E-04
144-CE	7.00E-05	4.00E-05			1.50E+01	5.00E+00	3.10E-02	1.00E-02		
152-EU										
154-EU										
155-EU										
235-U					<8.0E-05		<3.0E-05		<3.0E-04	
238-U					<8.0E-05		<3.0E-05		<3.0E-04	
238-PU	3.00E-06	2.00E-06	1.30E-05	4.00E-06	2.20E-01	2.00E-02	2.40E-03	5.00E-04	<3.0E-04	
239-PU	6.40E-06	1.00E-06	2.00E-05	4.00E-06	5.10E-01	5.00E-02	5.00E-03	1.00E-03	<3.0E-04	
241-PU					1.60E+01	1.20E+00				
241-AM	4.20E-06	2.00E-06	1.30E-05	3.00E-06	<3.0E-04		2.30E-03	1.00E-03	<3.0E-05	
242-CM	<8.0E-06		<5.0E-05		<3.0E-04		<1.0E-04		<3.0E-05	
244-CM	3.60E-06	2.00E-06	<3.0E-05		1.30E-03	4.00E-04	2.30E-04	6.00E-05	1.20E-04	4.00E-05

RADIOACTIVE WASTE SAMPLE LISTING  
BAT DATABASE

PLANT NAME:	BIG ROCK POINT	BIG ROCK POINT	BIG ROCK POINT	BIG ROCK POINT	BIG ROCK POINT
UNIT NUMBER:	0	0	0	0	0
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-62	01-DEC-62	01-DEC-62	01-DEC-62	01-DEC-62
SAMPLE TYPE:	CRUD	CRUD	CRUD	CRUD	CRUD
SAMPLE SUB-TYPE:	SECONDARY	SECONDARY	SECONDARY	SECONDARY	SECONDARY
SAMPLING DATE:	03-AUG-77	03-AUG-77	11-AUG-77	03-AUG-77	04-AUG-77
SAMPLE NUMBER:	6815	6820	6825	6824	6822

Concentrations in microcuries/gram

A-54

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	1.10E-03	4.00E-04	1.60E-03	5.00E-04	8.40E-04	1.20E-04	<6.1E-05		2.10E-03	5.00E-04
55-FE										
58-CO	<5.0E-04		<6.7E-04		<1.5E-04		<1.7E-04		<7.1E-04	
60-CD	4.50E-02	2.25E-03	6.10E-02	3.05E-03	3.50E-02	2.00E-03	1.24E-02	7.00E-04	6.10E-02	3.05E-03
59-NI										
63-NI										
90-SR										
95-ZR	<1.0E-03				<2.6E-04		<3.0E-04		<1.2E-03	
94-NB										
99-Tc										
106-RU										
110M-AG										
125-SB										
129-I										
134-CS			<1.2E-04		<2.9E-05		<3.2E-05		<1.5E-04	
135-CS										
137-CS	<1.0E-04		<1.3E-04		<3.3E-05		<3.0E-05		2.90E-03	3.00E-04
141-CE	<1.0E-03		<1.6E-03		<4.2E-04		1.80E-03	1.10E-03	<2.1E-03	
144-CE	6.00E-04	3.00E-04								
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	1.20E-05	3.00E-06	6.40E-05	3.20E-06	1.20E-05	5.00E-06	8.60E-06	8.00E-07	5.00E-05	3.00E-05
239-PU	1.20E-05	3.00E-06	1.10E-04	1.00E-05	1.50E-06	1.00E-06	1.20E-05	2.00E-06	1.00E-04	3.00E-05
241-PU										
241-AM	7.0E-06	4.00E-07	7.60E-05	7.00E-06	7.80E-06	3.00E-06	2.00E-05	5.00E-06	2.80E-05	1.00E-05
242-CM	7.0E-07	1.20E-07	8.50E-06	1.00E-06	1.90E-05	1.00E-05	3.30E-05	1.00E-05	1.25E-04	3.00E-05
244-CM	5.70E-07	1.00E-07	5.00E-06	2.50E-06	5.60E-06	2.80E-06	<1.2E-05		2.00E-05	1.00E-05

RADIOACTIVE WASTE SAMPLE LISTING  
SAJ DATABASE

PLANT NAME:			QUAD CITIES	OYSTER CREEK
UNIT NUMBER:	2	2	2	0
PLANT TYPE:	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	SEACOAST
START-UP DATE:	01-MAR-75	01-MAR-75	01-OCT-72	01-DEC-69
SAMPLE TYPE:	CRUD	CRUD	CRUD	CRUD
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	PRIMARY
SAMPLING DATE:	18-OCT-78	18-OCT-77	16-MAR-78	22-MAR-76
SAMPLE NUMBER:	T168	7004	7076	TO12

Concentrations in microcuries/gram

A-55

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	3.53E+00	3.60E-01	1.82E+00	2.10E-02	5.15E+00	2.60E-01	7.60E-03	2.00E-03	1.20E-01	1.00E-02
55-FE										
58-CO	1.04E+01	1.30E+00	6.28E+00	3.14E-01	4.01E+01	2.01E+00	<1.5E-03		1.60E-02	1.00E-03
60-CO	5.42E+01	2.71E+00	2.32E+01	1.20E+00	<1.4E-02		8.90E-01	4.45E-02	7.30E-01	3.65E-02
59-NI										
63-NI										
90-SR	6.77E-03	5.90E-04					3.06E-03	2.10E-04		
95-ZR	<8.8E-01		1.44E+00	3.90E-01	<5.9E-01		<2.5E-03			
94-NB										
99-TC										
106-RU										
110M-AG	4.47E-01	2.70E-01								
125-SB	3.24E-01	1.62E-02	5.49E-02	2.80E-02	<9.2E-02		2.40E-03	1.30E-03		
129-I										
134-CS	<6.9E-02		<2.0E-02		<5.8E-02		6.80E-03	1.40E-03	8.00E-01	4.00E-02
135-CS										
137-CS	<7.3E-02		<2.2E-02		<6.3E-02		1.60E-02	2.00E-03	2.30E+00	2.00E-01
141-CE	<1.2E+00		<2.9E-01		<1.0E+00		<5.4E-03			
144-CE									4.90E-02	2.00E-02
152-EU										
154-EU										
155-EU										
235-U									<5.0E-06	
238-U									<5.0E-06	
238-PU	6.80E-04	5.00E-05			1.30E-05	5.00E-06	7.40E-05	6.00E-06	1.50E-04	3.00E-05
239-PU	3.10E-04	3.00E-05			7.10E-06	3.50E-06	6.00E-05	6.00E-06	7.00E-05	1.00E-05
241-PU										
241-AM	1.70E-04	2.00E-05			4.60E-04	9.00E-05	1.40E-04	5.00E-05	<2.0E-07	
242-CM	7.50E-03	5.00E-04			1.80E-04	1.00E-04	3.30E-05	1.50E-05	<2.0E-07	
244-CM	1.02E-03	8.00E-05			1.90E-04	7.00E-05	<3.0E-05		2.20E-05	5.00E-06

# RADIOACTIVE WASTE SAMPLE LISTING

SAI DATABASE

PLANT NAME:	MONTICELLO	MONTICELLO	BIG ROCK POINT	MONTICELLO	MONTICELLO
UNIT NUMBER:	0	0	0	0	0
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-JUL-71	01-JUL-71	01-DEC-62	01-JUL-71	01-JUL-71
SAMPLE TYPE:	SMEAR	SMEAR	SMEAR	SMEAR	SMEAR
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	PRIMARY	PRIMARY
SAMPLING DATE:	14-OCT-75	14-APR-75	18-FEB-76	04-NOV-78	04-NOV-78
SAMPLE NUMBER:	T008	T024	T022	7809	7810

Concentrations in microcuries/gram

A-56

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	6.00E-03	3.00E-04	1.15E-01	6.00E-03	1.46E-01	7.30E-03	2.69E-02	1.80E-03	5.28E-03	4.50E-04
55-FE										
58-CO	3.90E-03	9.00E-04			3.40E-03	2.00E-04	1.40E-02	6.50E-03	4.16E-03	1.80E-03
60-CO	3.80E-02	2.00E-03	1.71E+00	9.00E-02	6.10E-01	3.05E-02	1.08E+00	5.40E-02	4.81E-02	2.40E-03
59-NI										
63-NI										
90-SR										
93-ZR	1.04E-02	1.00E-03	1.90E-01	9.50E-03			<5.6E-03		<1.6E-03	
94-NB										
99-TC										
106-RU	1.80E-03	1.00E-03	8.10E-01	4.05E-02						
110M-AG									1.25E-03	6.70E-04
125-SB	3.12E-04	6.40E-05	2.70E-02	8.00E-03	2.60E-03	1.00E-03	3.10E-03	1.93E-03		
129-I										
134-CS	2.00E-04	9.00E-05					2.69E-02	1.34E-03	5.97E-03	7.10E-04
135-CS										
137-CS	4.50E-04	2.25E-05					1.27E-01	6.35E-03	2.04E-02	1.02E-03
141-CE							<1.4E-02		<8.7E-03	
144-CE	1.22E-02	6.10E-04	5.10E-01	2.95E-02	9.40E-04	2.00E-04	1.18E-02	4.10E-03	2.63E-03	1.18E-03
152-EU					2.20E-05	3.00E-06				
154-EU			1.90E-03	4.00E-04	3.50E-04	6.00E-05				
155-EU			1.90E-03	4.00E-04	4.20E-04	6.00E-05				
235-U	<2.0E-06		<5.0E-07		<3.0E-07					
238-U	<2.0E-06		<5.0E-07		<3.0E-07					
238-PU	6.60E-05	1.00E-05	1.10E-03	2.00E-04	3.60E-04	1.00E-04	1.16E-04	7.00E-06	4.76E-05	4.30E-06
239-PU	4.80E-05	1.00E-05	9.60E-04	1.50E-04	8.20E-04	2.00E-04	8.14E-05	6.50E-06	2.80E-05	3.20E-06
241-PU			6.30E-02	2.00E-02	2.50E-02	1.00E-02				
241-AM	<2.0E-06		2.10E-04	3.00E-05	7.90E-04	9.00E-05	3.93E-05	2.00E-06	1.16E-05	9.00E-07
242-CM	1.50E-05	2.00E-06	3.90E-03	6.00E-04	2.50E-05	4.00E-06	5.73E-05	2.90E-06	2.36E-05	2.80E-06
244-CM	<2.0E-06		1.20E-04	2.00E-05	2.00E-05	1.00E-05	3.10E-05	1.55E-06	1.42E-05	1.10E-06

RADIOACTIVE WASTE SAMPLE LISTING  
GAI DATABASE

PLANT NAME:	MILLSTONE	MILLSTONE	MILLSTONE	MILLSTONE	OCONEE
UNIT NUMBER:	2	1	1	0	2
PLANT TYPE:	BWR	BWR	BWR	BWR	PWR
PLANT LOCATION:	SEACAST	SEACAST	SEACAST	SEACAST	INLAND
START-UP DATE:	01-DEC-75	01-DEC-70	01-DEC-70	01-DEC-70	01-SEP-74
SAMPLE TYPE:	SMEAR	SMEAR	SMEAR	SMEAR	REACTOR COOLANT
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	SECONDARY	SOLID
SAMPLING DATE:	10-APR-79	31-APR-79	11-MAY-79	05-APR-79	12-MAY-78
SAMPLE NUMBER:	T500	T600	T700	K001	7269

Concentrations in microcuries/gram

A-57

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	3.08E-02	1.54E-03	2.67E-03	1.70E-04	9.88E-03	4.94E-04	1.41E-02	7.05E-04	1.02E-05	6.50E-07
55-FE										
58-CO	2.27E-02	2.40E-03	3.07E-02	1.54E-03	1.34E-03	1.10E-04	1.98E-01	1.00E-02	3.59E-03	1.80E-04
60-CD	3.58E-02	1.80E-03	2.74E-02	1.40E-03	1.20E-02	6.00E-04	1.35E-01	7.00E-03	1.28E-04	6.40E-06
59-NI									1.60E-06	2.00E-07
63-NI									9.00E-05	4.50E-06
90-SR									3.50E-07	1.80E-08
95-ZR	9.17E-03	5.20E-03	2.90E-03	6.18E-04	1.44E-03	3.10E-04	<1.6E-04		1.08E-04	1.10E-05
94-NB									<1.3E-08	
99-TC									<2.2E-06	
106-RU										
110M-AG			1.23E-03	1.10E-04					4.50E-05	2.25E-06
125-SB									6.40E-06	2.50E-06
129-I										
134-CS	9.47E-04	1.50E-04	<6.3E-05		<3.9E-05		<1.1E-04		<6.9E-07	
135-CS										
137-CS	1.68E-03	2.60E-04	<6.5E-05		1.44E-04	7.20E-05	<1.1E-04		<5.3E-07	
141-CE	4.59E-02	9.70E-03	<2.6E-05		1.50E-04	5.90E-05	<4.8E-04		2.23E-05	2.90E-06
144-CE					4.72E-04	1.91E-04			2.23E-05	5.30E-06
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	1.75E-06	3.90E-07	<1.6E-06		2.31E-04	7.20E-05	1.48E-05	8.00E-07	2.50E-08	2.00E-09
239-PU	6.73E-06	7.80E-07	3.67E-05	3.70E-06	7.97E-04	2.23E-04	7.60E-06	5.50E-07	2.60E-08	2.00E-09
241-PU									1.59E-06	2.70E-07
241-AM	4.18E-06	7.60E-07	<7.7E-07		7.18E-06	1.22E-06	2.96E-05	3.60E-06	5.10E-09	4.00E-10
242-CM	2.50E-04	1.25E-05	4.46E-06	1.23E-06	3.62E-05	4.70E-06	<1.0E-06		4.20E-07	3.00E-08
244-CM	2.88E-05	2.00E-06	<4.1E-07		3.51E-06	8.40E-07	1.29E-05	2.30E-06	2.10E-08	2.00E-09

# RADIOACTIVE WASTE SAMPLE LISTING

SAJ DATABASE

PLANT NAME:	OCONEE	GINNA	OCONEE	OCONEE	OCONEE
UNIT NUMBER:	3	0	1	1	2
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-74	01-MAR-70	01-JUL-73	01-JUL-73	01-SEP-74
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLE SUB-TYPE:	SOLID	SOLID	SOLID	SOLID	SOLID
SAMPLING DATE:	11-MAY-78	14-OCT-76	02-DEC-77	08-MAY-78	08-DEC-77
SAMPLE NUMBER:	7267	T076	6956	7268	6955

Concentrations in microcuries/gram

A-58

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C					5.83E-07	2.92E-08				
54-MN	6.67E-06	3.33E-07	1.72E-06	2.00E-07	6.80E-06	3.40E-07	1.02E-05	5.70E-07	2.67E-05	1.33E-06
55-FE										
58-CO	2.42E-03	1.21E-04	3.60E-05	2.00E-06	<1.1E-03		1.62E-03	8.10E-05	1.06E-03	5.30E-05
60-CO	2.44E-05	1.22E-06	1.25E-05	6.25E-07	7.00E-05	4.00E-06	1.65E-04	8.30E-06	3.54E-04	1.77E-05
59-NI	5.70E-07	1.70E-07	<4.5E-06		1.11E-06	4.77E-07	1.40E-06	2.00E-07	1.14E-06	1.60E-07
63-NI	3.50E-05	1.80E-06	<1.1E-07		3.12E-05	1.56E-06	5.72E-05	2.86E-06	1.01E-04	5.05E-06
90-SR	<9.9E-09		6.60E-07	3.80E-07	4.12E-08	4.12E-09	1.56E-05	7.80E-07	2.74E-06	1.37E-07
95-ZR	1.08E-05	2.30E-06	1.78E-06	8.90E-08	2.00E-07	2.00E-08	2.78E-05	1.40E-06	9.86E-05	4.93E-06
94-NB	<5.3E-08		<7.9E-07		<2.2E-08		<2.3E-08		<1.4E-08	
99-TC	<5.0E-09		<1.8E-07		<5.8E-09		<1.3E-08		<3.9E-09	
106-RU									1.28E-05	6.40E-07
110M-AG	3.34E-06	3.80E-07			8.70E-06	4.35E-07	4.68E-05	2.34E-06	3.24E-05	4.30E-06
125-SB	<4.5E-07						<1.1E-06		1.92E-06	3.00E-07
129-I										
134-CS	<3.7E-07		3.04E-05	1.60E-06	4.50E-06	4.00E-07	3.97E-07	1.90E-07	6.48E-06	3.30E-07
135-CS										
137-CS	<6.1E-07		5.10E-05	3.00E-06	<1.5E-07		<2.9E-07		<3.1E-07	
141-CE			<8.0E-07		4.20E-06	8.00E-07	5.55E-06	1.30E-06	1.78E-05	2.30E-06
144-CE					4.00E-06	8.00E-07	<9.2E-06		6.16E-05	3.10E-06
152-EU										
154-EU										
155-EU										
235-U			<1.0E-08							
238-U			<1.0E-08							
238-PU	1.83E-10	3.50E-11	2.00E-09	1.00E-09	1.07E-08	9.00E-10	2.40E-08	2.00E-09	2.70E-08	1.35E-09
239-PU	4.04E-10	5.20E-11	<1.0E-09		8.80E-09	6.00E-10	3.20E-08	2.00E-09	3.20E-08	2.00E-09
241-PU	<1.0E-07		<2.7E-05		<9.0E-07		1.78E-06	2.30E-07	2.04E-06	9.40E-07
241-AM	8.18E-11	3.20E-11	4.10E-07	1.10E-07	1.20E-09	4.00E-10	3.60E-09	5.00E-10	4.80E-09	2.00E-09
242-CM	1.50E-09	2.00E-10	4.20E-08	1.10E-08	3.70E-08	2.00E-09	1.50E-07	2.00E-08	7.20E-07	1.00E-07
244-CM	1.40E-10	4.00E-11	5.20E-08	1.10E-08	3.10E-09	7.00E-10	8.00E-08	8.00E-09	1.00E-08	2.00E-09



# RADIOACTIVE WASTE SAMPLE LISTING

## SAI DATABASE

PLANT NAME:	GINNA	GINNA	GINNA	GINNA	GINNA
UNIT NUMBER:	0	0	0	0	0
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-MAR-70	01-MAR-70	01-MAR-70	01-MAR-70	01-MAR-70
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLE SUB-TYPE:	SOLID	SOLID	SOLID	SOLID	SOLID
SAMPLING DATE:	16-SEP-76	12-APR-73	03-MAR-77	01-SEP-77	25-AUG-77
SAMPLE NUMBER:	6724	6725	6728	6729	6730

Concentrations in microcuries/gram

A-59

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C									3.16E-06	1.58E-07
54-MN	1.50E-06	1.00E-07	1.50E-06	1.00E-07	5.98E-06	3.00E-07	1.11E-05	6.00E-07	9.01E-07	6.50E-08
55-FE										
58-CO	1.02E-04	5.10E-06			2.39E-04	1.20E-05	7.27E-04	3.64E-05	2.86E-05	1.43E-06
60-CO	9.00E-06	5.00E-07	8.10E-04	4.05E-05	3.17E-05	1.60E-06	9.31E-05	4.70E-06	4.95E-06	6.50E-07
59-NI	<2.0E-06		2.50E-06	1.30E-06			4.60E-06	1.20E-06	<6.3E-07	
63-NI	3.52E-06	3.17E-07	1.21E-04	6.05E-06			1.12E-04	5.60E-06	1.68E-06	1.01E-07
90-SR	3.90E-07	3.90E-08	5.79E-07	3.50E-08			6.00E-07	3.60E-08	6.20E-08	9.30E-09
95-ZR	9.80E-06	5.00E-06			4.15E-05	3.60E-06	9.40E-05	4.70E-06	9.74E-06	1.40E-06
94-NB	<1.4E-07		<1.3E-07				<1.3E-07		<1.1E-06	
99-TC	<2.8E-08		<2.9E-08				<8.2E-08		<8.9E-09	
106-RU	1.60E-06	1.00E-07	8.00E-05	1.00E-05	5.82E-06	4.20E-07	1.76E-05	9.00E-07	8.88E-07	2.00E-07
110M-AG	4.90E-07	1.00E-07	1.30E-04	4.00E-05	4.80E-06	2.90E-07	1.03E-05	5.15E-07	1.04E-06	5.20E-08
125-SB										
129-I										
134-CS	3.20E-05	2.00E-06	3.00E-06	1.50E-06	9.79E-05	5.40E-06	7.33E-05	3.70E-06	4.83E-05	2.50E-06
135-CS										
137-CS	6.50E-05	3.25E-06	2.30E-06	3.00E-07	2.19E-04	1.10E-05	1.14E-04	6.00E-06	8.66E-05	4.33E-06
141-CE					<7.5E-06		1.77E-05	1.50E-06	1.05E-06	3.50E-07
144-CE	1.30E-06	2.00E-07	1.90E-04	4.00E-05	6.35E-06	6.30E-07	<1.4E-05		1.09E-06	3.90E-07
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	1.20E-08	2.00E-09	2.40E-07	2.00E-08	1.50E-08	1.00E-09	1.00E-07	1.00E-08	3.10E-09	3.00E-10
239-PU	1.50E-08	2.00E-09	6.70E-07	6.00E-08	1.90E-08	1.00E-09	1.40E-07	1.00E-08	2.70E-09	3.00E-10
241-PU	<1.7E-06		3.11E-05	2.30E-06			1.28E-06	6.40E-08	<9.4E-08	
241-AM	6.00E-09	7.00E-10	2.50E-07	2.00E-08	4.90E-09	5.00E-10	3.90E-08	4.00E-09	6.90E-10	1.00E-10
242-CM	9.10E-08	1.00E-08	6.80E-06	1.50E-06	4.20E-07	4.00E-08	4.00E-06	4.00E-07	6.90E-08	6.00E-09
244-CM	5.70E-09	7.00E-10	3.70E-08	4.00E-09	9.90E-09	9.00E-10	1.20E-07	1.00E-08	3.00E-09	5.00E-10

# RADIOACTIVE WASTE SAMPLE LISTING

SAJ DATABASE

PLANT NAME:	GINNA	CALVERT CLIFFS	YANKEE ROWE	YANKEE ROWE	YANKEE ROWE
UNIT NUMBER:	0	1	0	0	0
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	SEACOAST	INLAND	INLAND	INLAND
START-UP DATE:	01-MAR-70	01-MAY-75	01-JUN-61	01-JUN-61	01-JUN-61
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLE SUB-TYPE:	SOLID	SOLID	SOLID	SOLID	SOLID
SAMPLING DATE:	24-OCT-77	23-MAR-77	16-DEC-77	03-MAR-78	27-JAN-78
SAMPLE NUMBER:	7140	TO89	6R55	7165	7164

Concentrations in microcuries/gram

A-60

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C					1.89E-07	9.43E-09				
54-MN	1.02E-06	2.60E-07	1.50E-04	1.00E-05	1.22E-06	6.10E-08	1.56E-05	7.80E-07	4.94E-05	2.50E-06
55-FE										
58-CO	9.62E-06	4.00E-06	2.80E-03	1.40E-04	3.90E-06	2.00E-07	2.43E-05	1.21E-06	1.67E-04	8.33E-06
60-CO	1.20E-06	6.00E-07	6.30E-04	3.15E-05	4.40E-06	2.20E-07	2.54E-05	1.30E-06	1.32E-04	6.60E-06
59-NI			1.97E-05	1.80E-06	<3.1E-08				<2.4E-05	
63-NI			1.49E-04	7.50E-06	3.90E-07	1.93E-08			3.26E-04	1.63E-05
90-SR			4.31E-06	2.20E-07	<1.5E-09				1.14E-07	1.70E-08
95-ZR	9.10E-06	5.10E-07	9.10E-04	5.00E-05	7.90E-06	6.00E-07	9.71E-06	7.70E-07	6.77E-05	4.80E-06
94-NB			2.16E-08	1.10E-09	<1.9E-08				<4.3E-07	
99-TC			<7.3E-06		<1.9E-09				<5.3E-08	
106-RU	1.60E-04	1.00E-04	4.10E-05	4.00E-06	9.20E-08	3.00E-08			7.63E-07	3.80E-07
110M-AO	1.56E-06	4.20E-07			1.20E-07	2.00E-08	3.56E-07	8.20E-08	6.30E-07	3.50E-07
125-SB			<4.4E-06		1.46E-07	8.00E-09	3.01E-07	9.90E-08	1.61E-06	1.10E-07
129-I										
134-CS	4.79E-06	2.50E-07	<9.0E-07		<8.2E-09		8.86E-07	1.40E-07	7.33E-06	6.20E-07
135-CS										
137-CS	1.07E-05	5.35E-07	<7.0E-04		<6.3E-09		5.00E-07	6.30E-08	8.48E-06	4.24E-07
141-CE	1.13E-05	7.80E-06	9.50E-05	6.00E-06	7.40E-07	4.00E-08	<1.2E-07		2.30E-05	1.50E-06
144-CE	1.49E-06	8.10E-07	2.10E-04	1.05E-05	1.55E-06	8.00E-08			2.09E-05	1.04E-06
152-EU							2.77E-07	1.90E-07		
154-EU										
155-EU										
235-U			<3.0E-11							
238-U			<3.0E-11							
238-PU	7.60E-08	6.00E-09	2.40E-07	3.00E-08	6.00E-10	6.00E-11			7.40E-08	4.00E-09
239-PU	3.50E-08	3.00E-09	1.20E-07	2.00E-08	1.80E-09	1.00E-10			1.60E-07	1.00E-08
241-PU			3.29E-05	1.64E-06	<6.6E-08				<1.4E-06	
241-AM	4.40E-08	1.00E-08	2.80E-08	4.00E-09	4.50E-10	2.23E-11			1.53E-08	8.00E-10
242-CM	7.10E-08	3.00E-08	1.70E-06	3.00E-07	3.20E-09	4.00E-10			1.64E-08	1.50E-09
244-CM	1.20E-08	6.00E-09	5.90E-08	7.00E-09	6.40E-11	2.00E-11			9.50E-09	1.00E-09

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	ZION	ZION	P	1	1
UNIT NUMBER:	1	2	P	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-JUN-73	01-DEC-73	01-OCT-72	01-DEC-70	01-DEC-70
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLE SUB-TYPE:	SOLID	SOLID	SOLID	SOLID	SOLID
SAMPLING DATE:	20-NOV-77	17-MAR-78	02-MAR-78	21-NOV-77	02-MAR-78
SAMPLE NUMBER:	7131	7130	7050	6843	7049

Concentrations in microcuries/gram

A-61

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C					5.61E-08	5.00E-09				
54-MN	3.06E-04	1.53E-05	3.06E-05	1.53E-06	1.88E-06	9.40E-08	2.10E-06	2.00E-07	1.03E-06	1.10E-07
55-FE										
58-CO	7.87E-03	3.93E-04	2.87E-04	1.44E-05	8.20E-05	4.10E-06	1.63E-04	8.15E-06	2.42E-04	1.21E-05
60-CD	1.71E-03	8.60E-05	1.38E-04	6.90E-06	6.47E-06	3.23E-07	1.67E-05	8.35E-07	5.28E-06	2.64E-07
59-NI	1.25E-04	1.30E-05			<1.0E-07		<6.9E-07		<3.1E-07	
63-NI	1.00E-02	5.00E-04			3.28E-05	1.60E-06	9.96E-06	5.00E-07	5.85E-06	2.92E-07
90-SR	1.70E-03	8.50E-05			4.16E-07	2.08E-08	3.59E-07	1.90E-08		
93-ZR	1.04E-05	4.60E-06	1.55E-05	7.80E-07	3.53E-06	5.80E-07	4.30E-05	4.00E-06	1.16E-05	1.20E-06
94-NB	<3.0E-07				<2.4E-08		<1.2E-07		<7.0E-08	
99-TC	<1.2E-07				<1.8E-08		<2.1E-07		<3.6E-08	
106-RU							5.70E-06	7.00E-07	7.90E-07	4.60E-07
110M-AQ			2.72E-06	7.30E-07	<2.1E-07		8.70E-07	3.50E-07	4.76E-07	2.20E-07
125-SB	8.87E-06	1.80E-06	3.77E-07	3.80E-07	<2.1E-07				2.44E-07	1.40E-07
129-I					<4.2E-09				<7.5E-09	
134-CS	<1.7E-06		2.86E-06	5.20E-07	8.83E-06	4.41E-07	5.80E-07	2.90E-07	4.72E-07	1.70E-07
135-CS										
137-CS	1.07E-05	3.00E-06	2.41E-06	2.20E-07	1.25E-05	6.25E-07	4.60E-07	2.00E-07	<2.6E-07	
141-CE	<2.7E-05		9.81E-07	2.90E-07	<3.7E-08		1.87E-05	9.35E-07	2.42E-06	2.60E-07
144-CE	<7.3E-05		3.50E-06	4.50E-07	3.98E-07	1.60E-07	1.39E-05	7.00E-06	2.59E-06	5.10E-07
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	1.17E-06	6.00E-08	9.60E-09	1.00E-09	1.80E-09	6.00E-10	4.80E-08	4.00E-09	5.20E-09	3.00E-10
239-PU	4.90E-07	2.45E-08	9.20E-09	1.00E-09	1.50E-09	6.00E-10	6.10E-08	4.00E-09	6.20E-09	3.10E-10
241-PU	5.95E-05	1.80E-05			<4.0E-08		7.49E-06	3.74E-07	<3.3E-07	
241-AM	2.20E-07	1.10E-07	7.50E-10	1.00E-10	5.30E-10	1.20E-10	1.80E-08	2.00E-09	4.00E-09	1.00E-09
242-CM	4.40E-06	1.00E-06	2.00E-08	4.00E-09	8.10E-09	2.00E-09	9.30E-07	5.00E-08	6.10E-08	1.00E-08
244-CM	7.20E-08	3.50E-08	1.30E-09	2.00E-10	3.60E-10	1.20E-10	4.90E-08	4.00E-09	5.60E-09	1.50E-09

# RADIOACTIVE WASTE SAMPLE LISTING

## S A I D A T A B A S E

PLANT NAME:	YANKEE ROWE	YANKEE ROWE	OCONEE
UNIT NUMBER:	0	0	2
PLANT TYPE:	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND
START-UP DATE:	01-JUN-61	01-OCT-72	01-SEP-74
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLE SUB-TYPE:	SOLID	SOLID	SOLID
SAMPLING DATE:	11-MAY-77	16-NOV-77	27-NOV-78
SAMPLE NUMBER:	T09B	6842	T039

Concentrations in microcuries/gram

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C			2.75E-07	1.40E-08						
54-MN	2.50E-05	1.25E-06	2.40E-06	1.20E-07	5.40E-05	3.00E-06	5.03E-06	2.52E-07	1.55E-06	1.50E-07
55-FE										
58-CO	1.50E-04	8.00E-06	4.00E-05	2.00E-06	8.40E-05	1.80E-05	1.25E-03	6.25E-05	9.35E-04	4.70E-05
60-CO	1.28E-04	6.40E-06	1.40E-05	1.00E-06	8.90E-03	7.00E-04	5.95E-05	3.00E-06	1.53E-05	8.00E-07
59-NI			<4.3E-07				<1.5E-06		<2.8E-07	
63-NI			1.57E-06	7.80E-08			3.60E-05	1.80E-06	1.50E-05	7.70E-07
90-BR			2.66E-08	4.80E-09			7.60E-08	1.30E-08	2.24E-07	2.00E-08
93-ZR	2.90E-05	2.00E-06	5.80E-06	4.00E-07			2.98E-05	3.60E-06	2.21E-05	1.30E-06
94-NB			<5.0E-08				<5.5E-08		<5.2E-08	
99-TC			<9.4E-10				<1.7E-08		<1.4E-08	
106-RU							3.91E-06	7.70E-07	2.52E-06	5.20E-07
110M-AG	8.00E-07	9.00E-08	6.80E-07	1.00E-07			1.17E-05	1.00E-06	1.02E-05	5.10E-07
125-SB	1.80E-07	9.00E-08	1.30E-07	6.00E-08	<3.8E-06		9.45E-07	5.52E-07		
129-I			<4.4E-09							
134-CS			2.80E-06	1.00E-06	2.90E-06	1.30E-06	2.33E-06	5.20E-07	1.35E-05	7.00E-07
135-CS										
137-CS			3.60E-06	2.00E-07	7.50E-06	1.50E-06	<1.7E-07		1.95E-05	1.00E-06
141-CE	7.70E-06	4.00E-07	4.90E-07	1.30E-07	<4.3E-06		9.09E-06	1.78E-06	5.13E-06	2.26E-06
144-CE	8.50E-06	1.90E-06	1.21E-06	2.00E-07	4.00E-02	2.00E-02	1.48E-05	7.40E-07	8.03E-06	1.28E-06
152-EU										
154-EU										
155-EU										
235-U	<2.0E-10									
238-U	<2.0E-10									
238-PU	1.80E-09	2.00E-10	4.30E-09	7.00E-10			1.13E-08	3.40E-09	1.10E-08	6.00E-10
239-PU	4.10E-09	4.00E-10	6.20E-09	7.00E-10			5.64E-08	7.90E-09	6.62E-09	4.00E-10
241-PU			<4.8E-06		1.60E-01	1.00E-01	<6.2E-06		<2.1E-07	
241-AM	4.80E-10	4.00E-11	8.50E-10	9.00E-11			1.29E-07	1.20E-08	3.01E-09	4.20E-10
242-CM	7.20E-09	7.00E-10	1.30E-08	2.00E-09			2.72E-08	6.00E-09	9.80E-08	4.90E-09
244-CM	4.40E-10	6.00E-11	6.20E-10	6.00E-11			2.00E-08	3.40E-09	5.52E-09	6.10E-10

RADIOACTIVE WASTE SAMPLE LISTING  
SAI DATABASE

PLANT NAME:	OCONEE	OCONEE	OCONEE	OCONEE	CONNECTICUT YANKEE
UNIT NUMBER:	2	3	3	3	0
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	SEACOAST
START-UP DATE:	01-SEP-74	01-DEC-74	01-DEC-74	01-DEC-74	01-JAN-68
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLE SUB-TYPE:	SOLID	SOLID	SOLID	SOLID	SOLID
SAMPLING DATE:	18-APR-79	27-NOV-78	20-MAR-79	19-APR-79	30-JUN-78
SAMPLE NUMBER:	7924	7650	7896	7916	7440

Concentrations in microcuries/gram

A-63

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H									<2.5E-10	
14-C									6.77E-08	3.39E-09
54-MN	1.47E-06	3.10E-07	4.54E-06	2.30E-07	1.36E-04	7.00E-06	2.08E-05	1.10E-06	3.84E-06	2.00E-07
55-FE										
58-CO	3.34E-03	1.70E-04	9.89E-04	4.94E-05	4.93E-03	2.50E-04	9.22E-03	4.61E-04	5.45E-04	2.73E-05
60-CO	1.48E-05	8.00E-07	1.64E-05	8.20E-07	1.70E-04	9.00E-06	9.20E-05	4.60E-06	1.76E-05	9.00E-07
59-NI	<1.0E-06								1.60E-07	2.56E-08
63-NI	3.70E-05	1.90E-06							9.17E-06	4.59E-07
90-SR	1.20E-07	1.40E-08							2.77E-06	1.39E-07
93-ZR	2.92E-05	1.50E-06	4.45E-05	2.80E-06	1.14E-04	6.00E-06	6.18E-05	1.29E-05	2.05E-04	1.30E-04
94-NB	<7.0E-08								<4.3E-09	
99-TC	<1.1E-08									
106-RU	8.89E-06	3.41E-06							3.62E-05	1.81E-06
110M-AG	1.03E-05	1.00E-06	1.95E-06	2.70E-07	1.03E-05	1.40E-06	2.30E-05	1.30E-06	2.25E-06	1.80E-07
125-SB										
129-I										
134-CS	3.17E-06	3.70E-07	7.96E-07	4.62E-07	1.18E-06	6.20E-07	<9.8E-07		2.49E-06	6.70E-07
135-CS										
137-CS	<3.3E-07		<1.4E-07		<6.4E-07		<6.8E-07		<1.4E-07	
141-CE	<2.0E-05		4.32E-05	2.20E-06	3.74E-05	1.14E-05	<1.7E-05		1.60E-04	8.00E-06
144-CE			1.73E-05	9.00E-07	9.44E-05	6.30E-06			1.70E-04	9.00E-06
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	3.52E-08	1.80E-09	9.63E-06	3.37E-06	1.75E-08	9.00E-10	5.84E-08	2.92E-09	2.88E-07	2.20E-08
239-PU	1.40E-08	7.00E-10	3.33E-06	1.20E-06	2.94E-08	1.50E-09	2.07E-08	1.03E-09	1.09E-07	9.00E-09
241-PU	9.20E-07	4.50E-07								
241-AM	9.15E-09	4.60E-10			3.86E-09	1.93E-10	7.31E-09	3.65E-10	4.06E-09	1.83E-09
242-CM	2.08E-07	1.04E-08			9.69E-08	4.84E-09	3.28E-07	1.64E-08	1.81E-07	2.50E-08
244-CM	1.39E-08	7.00E-10			6.15E-09	3.10E-10	2.65E-08	1.32E-09	1.53E-08	4.20E-09

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	CONNECTICUT YANKEE	CONNECTICUT YANKEE	YANKEE ROWE	YANKEE ROWE	
UNIT NUMBER:	0	0	0	0	2
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	SEACOAST	SEACOAST	INLAND	INLAND	INLAND
START-UP DATE:	01-JAN-68	01-JAN-68	01-JUN-61	01-JUN-61	01-OCT-72
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLE SUB-TYPE:	SOLID	SOLID	SOLID	SOLID	SOLID
SAMPLING DATE:	12-OCT-78	16-NOV-78	23-OCT-78	30-MAR-79	28-JUN-78
SAMPLE NUMBER:	7567	7892	7562	7888	7433

Concentrations in microcuries/gram

A-64

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	2.60E-09	1.53E-09								
14-C	6.14E-08	3.07E-09								
54-MN	1.71E-05	1.90E-06	4.35E-05	2.20E-06	3.77E-05	1.90E-06	2.06E-05	1.03E-06	2.12E-06	1.10E-07
55-FE										
58-CO	4.16E-04	2.10E-05	1.18E-03	6.00E-05	8.02E-05	4.01E-06	1.16E-04	6.00E-06	3.63E-05	1.82E-06
60-CD	4.38E-05	2.80E-06	1.32E-04	7.00E-06	2.17E-04	1.10E-05	1.39E-04	1.10E-05	1.07E-05	5.35E-07
59-NI	1.54E-07	1.23E-08			6.90E-06	4.40E-06				
63-NI	1.02E-05	5.08E-07			1.06E-04	5.30E-06				
90-SR					9.93E-07	4.97E-08			3.12E-07	1.60E-08
95-ZR	1.51E-03	2.30E-04	4.24E-03	2.12E-04	9.17E-06	2.86E-06	3.41E-04	1.90E-05	6.52E-06	3.26E-07
94-NB	<3.2E-09				<3.0E-07					
99-TC					<1.1E-08					
106-RU	1.47E-04	7.35E-06	6.10E-04	3.10E-05			2.39E-06	6.80E-07	2.12E-07	1.00E-07
110M-AG	8.38E-06	5.30E-06	1.77E-05	4.40E-06			6.18E-06	3.09E-07	2.96E-07	5.20E-08
125-SB			9.29E-06	3.49E-06			4.79E-06	1.36E-06	1.88E-07	6.50E-08
129-I										
134-CS	6.51E-06	2.00E-06	3.93E-06	1.65E-06	5.23E-06	1.24E-06	<1.7E-07		2.97E-06	1.50E-07
135-CS										
137-CS	8.83E-06	2.50E-06	<5.0E-07		4.53E-06	4.90E-07	<1.4E-07		4.18E-06	2.10E-07
141-CE	1.15E-03	6.00E-05	2.68E-03	3.60E-04	<3.5E-07		2.09E-04	1.10E-05	<5.9E-08	
144-CE	1.41E-03	7.05E-05	3.78E-03	1.30E-03	2.34E-05	1.20E-06	7.40E-05	3.70E-06		
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	1.43E-06	7.15E-08	6.15E-06	3.10E-07	3.32E-08	7.50E-09	1.25E-07	6.25E-09	2.97E-08	4.90E-09
239-PU	5.93E-07	2.96E-08	1.83E-06	9.15E-08	1.46E-09	2.90E-10	8.83E-08	4.41E-09	9.22E-09	4.61E-10
241-PU					<5.9E-04					
241-AM	2.86E-08	2.90E-09			3.03E-08	3.60E-09	1.54E-08	9.00E-10	3.23E-09	2.20E-10
242-CM	2.91E-07	1.50E-08			5.77E-08	2.89E-09	6.01E-07	3.00E-08	1.29E-08	1.00E-09
244-CM	1.39E-07	1.00E-08			1.02E-08	2.10E-09	5.49E-08	2.75E-09	1.20E-09	1.50E-10

# RADIODACTIVE WASTE SAMPLE LISTING

## SAJ DATABASE

PLANT NAME:	2	2	OCONEE	OCONEE	OCONEE
UNIT NUMBER:	2	2	J	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-OCT-72	01-OCT-72	01-JUL-73	01-JUL-73	01-JUL-73
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLE SUB-TYPE:	SOLID	SOLID	SOLID	SOLID	SOLID
SAMPLING DATE:	20-DEC-78	07-MAR-79	04-DEC-78	06-MAR-79	23-APR-79
SAMPLE NUMBER:	7654	8025	7653	7895	7917

Concentrations in microcuries/gram

A-65

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C	7.33E-07	3.70E-08	6.00E-07	3.00E-08						
54-MN	7.11E-07	5.90E-08	7.93E-07	6.90E-08	5.06E-06	3.60E-07	7.26E-07	5.20E-08	1.14E-05	9.00E-07
55-FE										
58-CO	6.46E-05	3.23E-06	1.35E-04	7.00E-06	1.78E-04	8.90E-05	3.66E-04	1.83E-05	1.28E-02	6.40E-04
60-CO	5.08E-06	2.54E-07	5.75E-06	2.90E-07	4.13E-05	2.10E-06	5.18E-06	2.60E-07	1.06E-04	5.30E-06
59-NI	<9.6E-08		<3.4E-07						3.40E-06	1.10E-06
63-NI	2.01E-06	1.00E-07	6.55E-06	3.30E-07					2.41E-04	1.20E-05
90-SR	<4.3E-09		1.06E-08	3.90E-09	3.27E-08	1.64E-09			3.53E-07	2.60E-08
95-ZR	2.59E-06	4.60E-07	2.60E-06	1.07E-06	1.59E-05	1.80E-06	3.54E-06	3.20E-07	6.29E-05	8.80E-06
94-NB	<2.4E-08		<2.6E-08						<8.1E-08	
99-TC	<3.3E-08		<2.4E-08						<2.2E-08	
106-RU										
110M-AG	3.53E-07	1.13E-07	3.48E-07	6.90E-08	7.79E-06	4.40E-07	1.40E-06	7.00E-08	<4.0E-05	
125-SB			6.07E-07	1.68E-07			4.77E-07	3.10E-07		
129-I										
134-CS	1.55E-07	5.60E-08	6.25E-07	2.95E-07	8.57E-07	4.12E-07	1.45E-06	9.00E-08	1.04E-05	9.00E-07
135-CS										
137-CS	<3.7E-08		1.94E-07	6.50E-08	<2.7E-07		2.50E-06	1.30E-07	<6.7E-07	
141-CE	<1.3E-07		<1.7E-06		<7.9E-07		<6.0E-07		<7.4E-06	
144-CE										
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	8.30E-10	1.30E-10	3.37E-09	2.10E-10	6.94E-09	3.50E-10	1.96E-08	1.00E-09	4.65E-08	2.32E-09
239-PU	5.00E-10	1.10E-10	3.33E-09	2.30E-10	5.17E-09	2.60E-10	9.52E-09	4.80E-09	3.18E-08	1.60E-09
241-PU	6.90E-08	2.70E-08	<3.5E-08						1.50E-06	8.00E-07
241-AM	7.10E-10	1.20E-10	1.79E-09	2.10E-10			9.94E-10	1.41E-10	5.77E-09	8.10E-10
242-CM	<1.3E-08		1.57E-08	8.00E-10			5.85E-08	2.93E-09	2.72E-07	1.40E-08
244-CM	3.70E-10	8.90E-11	1.84E-09	2.90E-10			3.99E-09	2.80E-10	9.99E-09	8.00E-10

RADIOACTIVE WASTE SAMPLE LISTING  
SAI DATABASE

PLANT NAME:	GINNA	GINNA	GINNA	1	1
UNIT NUMBER:	0	0	0	PWR	PWR
PLANT TYPE:	PWR	PWR	PWR	INLAND	INLAND
PLANT LOCATION:	INLAND	INLAND	INLAND	01-DEC-70	01-DEC-70
START-UP DATE:	01-MAR-70	01-MAR-70	01-MAR-70	REACTOR COOLANT	REACTOR COOLANT
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	SOLID	SOLID
SAMPLE SUB-TYPE:	SOLID	SOLID	SOLID	28-JUN-78	20-DEC-78
SAMPLING DATE:	26-MAR-78	20-OCT-77	04-MAY-78	7432	7648
SAMPLE NUMBER:	7199	7385	7386		

Concentrations in microcuries/gram

A-66

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C			2.06E-06	1.03E-07						
54-MN	2.03E-05	1.01E-06	2.55E-06	1.70E-07	1.60E-05	8.00E-07	7.18E-07	3.60E-08	1.35E-06	9.00E-08
55-FE										
58-CO	3.60E-04	3.40E-05	1.84E-04	9.20E-06	2.24E-04	1.12E-05	1.35E-04	7.00E-06	3.27E-04	1.64E-05
60-CO	1.31E-04	7.00E-06	1.61E-05	1.20E-06	1.54E-04	8.00E-06	5.40E-06	2.70E-07	8.79E-06	4.40E-07
59-NI			<1.1E-06		<2.0E-06				<2.7E-07	
63-NI			7.31E-06	3.66E-07	2.89E-05	1.44E-06			<1.1E-05	
90-SR			6.87E-08	9.62E-09	4.29E-07	3.40E-08	1.02E-07	5.10E-09		
95-ZR	2.49E-04	9.60E-05	2.64E-05	1.32E-06	8.23E-05	4.12E-06	7.57E-06	9.10E-07	1.48E-05	2.00E-06
94-NB			<4.7E-08		<6.5E-08				<1.6E-08	
99-Tc			<6.8E-08		<1.4E-08				<4.7E-07	
106-RU	1.28E-05	1.00E-06	2.96E-06	4.00E-07	1.23E-05	6.15E-07	1.43E-06	9.00E-08	3.24E-06	1.62E-07
110M-AG	7.40E-06	2.83E-06	2.30E-06	1.70E-07	3.61E-06	3.70E-07	7.08E-07	3.54E-08	1.50E-06	1.00E-07
125-SB	6.15E-06	3.10E-07			7.04E-07	5.60E-08	3.65E-07	3.50E-08	4.09E-07	1.05E-07
129-I									<7.3E-09	
134-CS	3.59E-06	1.39E-06	8.15E-05	4.10E-06	1.13E-05	6.00E-07	4.00E-07	2.00E-08	<9.5E-08	
135-CS										
137-CS	4.02E-06	3.00E-07	1.58E-04	8.00E-06	1.07E-05	5.35E-07	5.04E-07	5.40E-08	<6.4E-08	
141-CE	<2.2E-03				6.18E-06	8.90E-07	1.26E-06	1.30E-07	2.23E-06	5.10E-07
144-CE	1.48E-05	1.80E-06	3.16E-06	9.90E-07	1.44E-05	7.20E-07	1.25E-06	1.70E-07	1.34E-06	5.20E-07
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	1.26E-07	1.40E-08	7.16E-09	6.00E-10	5.44E-08	3.00E-09	5.13E-09	2.60E-10	7.40E-09	3.70E-10
239-PU	1.35E-07	1.30E-08	8.79E-09	6.00E-10	6.96E-08	3.48E-09	6.32E-09	3.20E-10	9.04E-09	4.50E-10
241-PU			2.00E-07	1.10E-07	5.00E-06	8.00E-07			2.30E-06	3.90E-07
241-AM			1.23E-08	1.00E-09	2.70E-08	3.00E-09	3.97E-09	2.10E-10	3.00E-08	3.10E-09
242-CM			2.24E-07	1.12E-08	1.20E-06	1.00E-07	6.35E-08	3.20E-09	1.51E-07	1.30E-08
244-CM			1.03E-08	9.00E-10	7.40E-08	6.00E-09	4.52E-09	2.30E-10	5.98E-09	1.18E-09



# RADIOACTIVE WASTE SAMPLE LISTING

SAI DATABASE

PLANT NAME:		TROJAN	TROJAN	3	3
UNIT NUMBER:	1	0	0		
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	SEACAST	SEACAST	INLAND	INLAND
START-UP DATE:	01-DEC-70	01-MAY-76	01-MAY-76	01-DEC-72	01-DEC-72
SAMPLE TYPE:	REACTOR COOLANT	RESIN	FILTER CARTRIDGE	SMEAR	SMEAR
SAMPLE SUB-TYPE:	SOLID	PRIMARY	SECONDARY	PRIMARY	PRIMARY
SAMPLING DATE:	07-MAR-79	5-DEC-80	27-OCT-81	08-JUL-83	08-JUL-83
SAMPLE NUMBER:	8026	9034	9652	10179	10180

Concentrations in microcuries/gram

A-67

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	4.10E-07	5.00E-08	1.71E+02	8.55E+00	1.20E-03	3.00E-04	4.36E-04	1.30E-04	2.70E-01	1.35E-02
55-FE										
58-CO	6.27E-05	3.14E-06	3.65E+02	1.83E+01	8.40E-03	6.00E-04	3.67E-03	2.60E-04	1.02E+00	5.10E-02
60-CD	3.39E-06	1.70E-07	9.76E+02	4.88E+01	1.00E-02	1.00E-03	4.69E-03	2.50E-04	5.42E+00	2.71E-01
59-NI	<9.5E-08									
63-NI	3.45E-06	1.72E-07	2.02E+02	1.01E+01	1.80E-03	4.00E-04				
90-SR	1.30E-08	4.00E-09	1.23E+01	6.15E-01	2.00E-03	7.00E-06	2.00E-03	1.00E-03		
95-ZR	3.66E-06	6.00E-07	1.07E+02	5.35E+00	5.30E-03	7.00E-04	7.20E-03	3.60E-04	3.17E-02	1.70E-02
94-NB	<2.6E-08									
99-TC	<3.6E-07									
106-RU	8.41E-07	4.21E-08	8.90E+01	2.40E+01	<1.7E-03		<5.4E-04		1.09E-01	4.70E-02
110M-AG	3.97E-07	9.40E-08	<1.2E+00		<2.5E-04		<3.1E-04		9.42E-02	5.60E-03
125-SB	4.32E-07	4.10E-08	2.22E+01	2.30E+00	<1.9E-03		<6.8E-04		2.91E-01	1.46E-02
129-I	<1.4E-09									
134-CS	<2.5E-08		<7.9E-01		3.00E-02	2.00E-03	1.43E-02	7.15E-04	<1.6E-03	
135-CS										
137-CS	<1.9E-08		6.10E+00	2.40E+00	3.80E-02	1.90E-03	2.86E-02	1.43E-03	<1.8E-03	
141-CE	<1.2E-06		<4.7E-01		<2.8E-04		8.55E-04	1.90E-04	<1.0E-03	
144-CE	1.23E-06	2.10E-07	1.72E+02	1.00E+01	7.70E-04	9.00E-05	4.82E-03	8.50E-04	6.57E-02	1.40E-02
152-EU										
154-EU										
155-EU										
235-U					<1.6E-07					
238-U			2.20E-04	2.00E-05	7.20E-07	9.00E-08				
238-PU	3.61E-08	1.81E-09	1.64E-01	8.20E-03	5.50E-07	4.00E-08				
239-PU	5.79E-08	2.90E-09	4.10E-01	2.05E-02	6.00E-07	4.00E-08				
241-PU	<1.1E-06									
241-AM	6.89E-09	1.03E-09	4.30E-02	2.15E-03	3.70E-07	3.00E-08				
242-CM	5.09E-08	4.10E-09	3.10E-01	1.55E-02	9.30E-07	6.00E-08				
244-CM	9.28E-09	1.02E-09	1.43E-02	7.15E-04	6.90E-08	1.40E-08				

# RADIOACTIVE WASTE SAMPLE LISTING

SAI DATABASE

PLANT NAME:	MILLSTONE	MILLSTONE	MILLSTONE	MONTICELLO	MILLSTONE
UNIT NUMBER:	1	2	1	1	1
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	SEACOAST	SEACOAST	SEACOAST	INLAND	SEACOAST
START-UP DATE:	01-DEC-70	01-DEC-75	01-DEC-70	01-JUL-71	01-DEC-70
SAMPLE TYPE:	SMEAR	SMEAR	SMEAR	REACTOR COOLANT	SMEAR
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	LIQUID	PRIMARY
SAMPLING DATE:	06-APR-79	06-APR-79	06-APR-79	04-MAY-83	10-MAR-80
SAMPLE NUMBER:	T600M	T500M	T700M	10147	8329

Concentrations in microcuries/gram

A-68

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN							2.34E-05	1.17E-06	4.40E-03	2.20E-04
55-FE										
58-CO							8.03E-05	4.01E-06	<5.3E-05	
60-CO							2.08E-05	1.04E-06	1.60E-02	1.00E-03
59-NI										
63-NI										
90-BR							9.10E-07	1.00E-07	1.80E-04	2.00E-05
93-ZR									<8.1E-05	
94-NB										
99-TC										
106-RU							<2.5E-06			
110M-AG							<5.6E-07			
125-SB										
129-I										
134-CS							<9.3E-07		2.80E-04	1.40E-05
135-CS										
137-CS							1.60E-06	8.00E-07	1.50E-03	1.00E-04
141-CE							4.52E-05	2.26E-06	<9.4E-05	
144-CE							<8.8E-07		3.60E-04	1.70E-04
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	3.70E-05	4.00E-06	6.70E-06	8.00E-07	8.00E-04	2.00E-04			1.40E-05	1.00E-06
239-PU	1.60E-06	5.00E-07	1.80E-06	4.00E-07	2.30E-04	7.00E-05			4.50E-06	8.00E-07
241-PU										
241-AM	<7.7E-07		4.20E-06	8.00E-07	7.20E-06	1.20E-06			2.20E-06	4.00E-07
242-CM	4.50E-06	1.20E-06	2.50E-04	1.25E-05	3.60E-05	5.00E-06			5.60E-06	2.80E-07
244-CM	<4.0E-07		2.90E-05	2.00E-06	3.50E-06	8.00E-07			4.80E-06	6.00E-07

# RADIOACTIVE WASTE SAMPLE LISTING

## SAI DATABASE

PLANT NAME:	MILLSTONE	MONTICELLO	SURRY	SURRY	NORTH ANNA
UNIT NUMBER:	2	1	1	2	1
PLANT TYPE:	PWR	BWR	PWR	PWR	PWR
PLANT LOCATION:	SEACOAST	INLAND	SEACOAST	SEACOAST	INLAND
START-UP DATE:	01-DEC-75	01-JUL-71	01-DEC-72	01-MAY-73	01-JUN-78
SAMPLE TYPE:	SMEAR	FILTER CARTRIDGE	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLE SUB-TYPE:	PRIMARY	SECONDARY	TOTAL	TOTAL	TOTAL
SAMPLING DATE:	10-MAR-80	25-APR-83	17-JAN-82	17-JAN-82	20-JAN-82
SAMPLE NUMBER:	8331	10148	9760	9759	9761

Concentrations in microcuries/gram

A-69

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	8.00E-05	2.00E-05	3.00E-06	1.80E-06	3.08E-05	1.40E-05	2.43E-05	3.01E-06	4.20E-06	2.10E-07
55-FE										
58-CO	3.30E-04	3.00E-05	6.10E-06	3.50E-06	1.22E-03	4.34E-05	2.26E-03	9.75E-05	2.57E-03	1.01E-04
60-CO	5.10E-04	3.00E-05	1.00E-05	2.00E-06	1.80E-04	1.03E-05	1.41E-04	5.12E-06	1.57E-04	4.00E-05
59-NI										
63-NI										
90-SR	<1.0E-05				4.50E-07	1.20E-07			8.70E-07	1.50E-07
95-ZR	<1.8E-05				2.90E-05	2.00E-06	1.20E-04	2.00E-05	6.79E-05	1.81E-05
94-NB										
99-TC										
106-RU			<4.7E-06				<8.4E-07		<1.2E-06	
110M-AG			<8.0E-07		<9.0E-08		<8.0E-08		1.02E-06	5.10E-08
125-SB			<4.1E-06							
129-I			<4.9E-07							
134-CS	1.60E-03	1.00E-04			2.12E-02	1.10E-03	1.65E-04	8.25E-06	2.73E-03	1.40E-04
135-CS										
137-CS	1.60E-03	1.00E-04	1.38E-05	3.20E-06	3.18E-02	1.59E-03	2.14E-04	1.07E-05	5.12E-03	2.56E-04
141-CE	<1.1E-05		<2.4E-06		5.30E-07	3.00E-07	<6.7E-08		3.90E-07	2.50E-07
144-CE	<1.0E-05		<3.8E-06		7.40E-07	7.00E-08	1.93E-07	2.50E-08	3.10E-07	2.00E-08
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	6.00E-06	1.00E-06			1.27E-09	6.35E-11	3.52E-10	2.10E-11	2.03E-10	1.80E-11
239-PU	3.50E-06	1.10E-06			1.64E-09	8.20E-11	2.25E-10	1.70E-11	3.39E-10	2.40E-11
241-PU										
241-AM	1.10E-06	2.00E-07			6.60E-10	1.00E-10	1.80E-10	5.00E-11	1.70E-10	4.00E-11
242-CM	9.60E-07	1.50E-07			2.59E-08	1.29E-09	3.10E-09	2.00E-10	3.15E-09	1.60E-10
244-CM	4.80E-07	1.00E-07			8.00E-10	1.10E-10	1.70E-10	5.00E-11	1.30E-10	3.00E-11

# RADIOACTIVE WASTE SAMPLE LISTING

SAS DATABASE

PLANT NAME:	NORTH ANNA	PEACH BOTTOM	PEACH BOTTOM	PEACH BOTTOM	1
UNIT NUMBER:	2	2	2	2	PWR
PLANT TYPE:	PWR	BWR	BWR	BWR	INLAND
PLANT LOCATION:	INLAND	SEACOAST	SEACOAST	SEACOAST	REACTOR COOLANT
START-UP DATE:	01-DEC-80	01-JUL-74	01-JUL-74	01-JUL-74	01-DEC-70
SAMPLE TYPE:	REACTOR COOLANT	RESIN	RESIN	REACTOR COOLANT	SOLID
SAMPLE SUB-TYPE:	TOTAL	SECONDARY	PRIMARY	TOTAL	13-AUG-80
SAMPLING DATE:	20-JAN-82	23-MAR-82	21-MAR-82	28-MAR-82	B646
SAMPLE NUMBER:	9762	9052	9853	9851	

Concentrations in microcuries/gram

A-70

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	1.04E-05	5.20E-07	2.80E-02	1.20E-02	1.80E-01	3.00E-02	3.10E-06	1.55E-07		
55-FE										
58-CO	1.39E-04	8.69E-06	9.30E-02	1.80E-02	2.68E+00	1.34E-01	3.45E-04	1.70E-05		
60-CO	2.54E-05	1.27E-06	1.00E+00	5.00E-02	9.40E+00	4.70E-01	3.39E-04	1.61E-05		
59-NI										
63-NI							6.40E-06	2.00E-06		
90-SR	2.70E-07	1.30E-07	8.80E-04	5.00E-05	2.20E-02	1.10E-03	<5.0E-10		<8.3E-10	
95-ZR	1.71E-05	8.55E-07	<4.0E-02		2.00E-01	8.00E-02	3.35E-06	1.68E-07		
94-NB										
99-TC										
106-RU	<5.7E-07		<3.2E-02		<7.0E-02		<2.5E-07			
110M-AG	<6.0E-08		<3.0E-02		4.60E-01	3.00E-02	1.13E-05	3.00E-06		
125-SB	1.40E-06	6.00E-07	<2.7E-02				<1.9E-07			
129-I										
134-CS	2.01E-03	1.10E-04	1.12E+00	5.60E-02	1.87E+00	9.35E-02	<2.7E-08			
135-CS										
137-CS	4.76E-03	2.38E-04	1.37E+00	6.85E-02	1.60E+00	8.00E-02	<8.6E-08			
141-CE	1.82E-06	1.30E-07	<7.2E-03		<1.6E-03		3.40E-07	1.10E-07		
144-CE	3.99E-07	2.00E-08	<1.2E-02		<2.4E-02		<3.1E-08			
152-EU										
154-EU										
155-EU										
235-U							<1.4E-10			
238-U							<4.0E-11			
238-PU	2.29E-10	1.80E-11	2.90E-05	1.45E-06	1.35E-05	6.75E-07			7.10E-09	3.50E-09
239-PU	6.60E-10	3.30E-11	8.90E-06	5.00E-07	9.90E-06	4.95E-07			6.80E-09	3.30E-09
241-PU										
241-AM	2.50E-10	1.10E-10	1.38E-06	6.90E-08	6.10E-06	5.00E-07			8.10E-09	4.00E-09
242-CM	3.00E-09	3.00E-10	7.70E-06	3.85E-07	9.80E-05	4.90E-06			1.30E-07	7.00E-08
244-CM	1.50E-10	6.00E-11	7.10E-07	5.00E-08	8.80E-06	6.00E-07			1.90E-08	9.00E-09

# RADIOACTIVE WASTE SAMPLE LISTING

## SAD DATABASE

PLANT NAME:				
UNIT NUMBER:	2	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	10-OCT-72	01-DEC-80	01-DEC-70	01-DEC-70
SAMPLE TYPE:	REACTOR COOLANT	FUEL POOL	EVAPORATOR BOTTOMS	RESIN
SAMPLE SUB-TYPE:	SOLID	SOLID	SOLID	PRIMARY
SAMPLING DATE:	13-AUG-80	13-AUG-80	27-AUG-80	18-AUG-80
SAMPLE NUMBER:	8647	8648	8649	9501

Concentrations in microcuries/gram

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
A-71										
3-H										
14-C										
54-MN								8.00E+00	1.00E+00	
55-FE										
58-CO								2.16E+02	1.80E+01	
60-CO								1.70E+02	8.50E+00	
59-NI										
63-NI										
90-SR	1.30E-07	7.00E-08	9.30E-08	4.00E-08	1.53E-04	7.65E-06	1.72E-01	8.60E-03	8.80E-02	5.00E-03
95-ZR								<1.0E+02		
94-NB										
99-TC										
106-RU								<2.0E+00		
110M-AG								<5.5E-01		
125-SB								4.40E+00	1.10E+00	
129-I										
134-CS								5.54E+00	2.77E-01	
135-CS										
137-CS								6.00E+00	4.40E-01	
141-CE								<1.9E+02		
144-CE								<7.2E-01		
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	3.00E-09	1.50E-09	4.40E-08	2.20E-08	6.70E-05	3.35E-06	4.00E-03	2.00E-04	8.30E-04	4.15E-05
239-PU	2.60E-09	1.30E-09	7.40E-08	3.70E-08	1.21E-04	6.05E-06	3.10E-03	2.00E-04	4.80E-04	2.40E-05
241-PU										
241-AM	1.00E-09	5.00E-10	4.20E-08	2.10E-08	3.07E-05	1.60E-06	7.50E-04	3.75E-05	3.00E-04	3.00E-05
242-CM	6.30E-09	3.20E-09	1.70E-07	9.00E-08	5.50E-06	3.00E-07	6.30E-03	3.15E-04	1.66E-03	1.50E-04
244-CM	6.60E-10	3.30E-10	7.20E-08	3.60E-08	8.30E-06	4.15E-07	2.10E-03	1.05E-04	5.50E-04	4.00E-05

# RADIOACTIVE WASTE SAMPLE LISTING

SAJ DATABASE

PLANT NAME:			
UNIT NUMBER:	1	2	2
PLANT TYPE:	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-70	01-OCT-72	01-OCT-72
SAMPLE TYPE:	EVAPORATOR BOTTOMS	REACTOR COOLANT	RESIN
SAMPLE SUB-TYPE:	SOLID	SOLID	PRIMARY
SAMPLING DATE:	11-AUG-80	1980-1981 CO	10-OCT-81
SAMPLE NUMBER:	9502	9503	9504

Concentrations in microcuries/gram

A-72

	<u>Value</u>	<u>Unc.</u>		<u>Value</u>	<u>Unc.</u>		<u>Value</u>	<u>Unc.</u>		<u>Value</u>	<u>Unc.</u>
3-H	4.99E-03	3.00E-04		<1.2E-02						9.42E-03	1.15E-03
14-C	3.23E-02	1.61E-03		8.11E-03	4.10E-04					1.22E-02	6.10E-04
54-MN	3.40E-02	4.00E-03	1.30E-06	1.00E-07	<4.1E-04		5.10E-07	7.00E-08		1.60E-02	3.00E-03
55-FE											
58-CO	2.20E-01	6.00E-02	1.96E-04	9.80E-06	3.88E-02	1.94E-03	1.04E-05	3.02E-07		9.40E-03	1.70E-03
60-CO	7.27E-01	3.64E-02	1.36E-05	6.80E-07	6.04E-03	6.70E-04	1.16E-05	4.52E-07		6.10E-01	3.05E-02
59-NI	3.20E-04	8.30E-05			<4.1E-04					<1.4E-03	
63-NI	6.54E-02	3.30E-03			2.60E-03	2.90E-04				2.01E-01	1.00E-02
90-SR	1.17E-03	6.00E-05	1.75E-08	9.00E-10	3.95E-04	1.97E-05	1.64E-07	6.43E-09		2.80E-03	2.00E-04
99-ZR	<5.5E-01		4.40E-06	5.00E-07			1.15E-06	5.75E-08		<2.4E-04	
94-NB	3.12E-04	2.20E-05			<1.6E-04					<7.2E-04	
99-TC	<2.1E-04				<8.7E-05					<1.3E-03	
106-RU	3.20E-01	3.00E-02	<6.5E-07		<4.0E-03		4.20E-06	7.00E-07		<6.8E-03	
110M-AG	3.20E-01	5.00E-02	1.70E-06	2.00E-07	8.56E-04	5.20E-04	3.50E-07	5.00E-08		4.90E-03	2.45E-04
125-SB	2.80E-02	3.00E-03	<5.5E-07		<4.9E-03		<3.0E-07			1.01E-01	5.05E-03
129-I	<4.7E-06				<2.7E-05					<4.3E-05	
134-CS	2.00E-02	8.00E-03	<2.6E-07		2.07E-01	1.04E-02	4.82E-04	2.40E-05		2.30E-02	4.00E-03
135-CS											
137-CS	<2.0E-03		4.80E-07	2.80E-07	3.04E-01	1.52E-02	1.11E-03	5.55E-05		6.10E-02	3.05E-03
141-CE	<9.9E-01		<5.0E-08		<3.9E-04		<1.5E-08			<1.2E-04	
144-CE	4.20E-02	1.70E-02	<2.2E-07		<1.7E-03		5.50E-07	3.00E-07		<1.7E-03	
152-EU											
154-EU											
155-EU											
235-U											
238-U											
238-PU	3.40E-04	2.00E-05	1.05E-09	5.25E-11	<1.3E-07		6.44E-09	3.16E-10		5.80E-05	3.00E-06
239-PU	4.50E-04	2.25E-05	8.20E-10	4.10E-11	<3.2E-07		5.72E-09	3.00E-10		7.10E-05	4.00E-06
241-PU											
241-AM	3.40E-04	7.00E-05	4.30E-10	2.15E-11	4.16E-07	7.90E-08	2.70E-09	1.29E-10		5.50E-05	3.00E-06
242-CM	1.70E-03	3.00E-04	7.20E-09	4.00E-10	3.73E-07	8.10E-08	4.18E-08	2.05E-09		1.83E-04	9.15E-06
244-CM	3.10E-04	6.00E-05	1.59E-09	8.00E-11	5.20E-07	8.90E-08	5.23E-09	3.01E-10		5.10E-05	3.00E-06

# RADIOACTIVE WASTE SAMPLE LISTING

SAI DATABASE

PLANT NAME:		KEWAUNEE	KEWAUNEE	KEWAUNEE
UNIT NUMBER:	1	0	0	0
PLANT TYPE:	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-70	01-DEC-70	01-JUN-74	01-JUN-74
SAMPLE TYPE:	FUEL POOL	RESIN	RESIN	RESIN
SAMPLE SUB-TYPE:	TOTAL	PRIMARY	PRIMARY	PRIMARY
SAMPLING DATE:	1980-1981 CD	20-NOV-80	01-MAY-80	16-JAN-81
SAMPLE NUMBER:	9509	9510	B316	9122
				9805

Concentrations in microcuries/gram

A-73

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	4.70E-07	1.13E-07	2.95E-02	1.35E-03						
14-C	1.64E-07	9.82E-09	6.56E-03	3.30E-04						
54-MN	8.90E-07	1.30E-07	9.40E-03	1.30E-03	9.00E-03	4.50E-04	2.60E-03	1.30E-04	6.80E-06	7.00E-07
55-FE										
58-CO	3.65E-05	1.70E-06	<2.8E-03		1.30E-03	1.00E-04	5.40E-02	3.00E-03	9.10E-05	4.55E-06
60-CO	3.44E-04	1.56E-05	1.27E-01	6.35E-03	2.50E-02	3.00E-03	4.80E-01	3.00E-02	6.60E-04	3.30E-05
59-NI	1.44E-06	6.19E-07	<1.3E-02							
63-NI	1.07E-04	5.35E-06	7.20E-03	1.40E-03	3.70E-01	3.00E-02	1.07E-01	5.35E-03	3.40E-04	2.00E-05
90-SR	4.26E-07	2.69E-08	2.50E-03	1.25E-04	1.30E-02	6.00E-03	3.10E-05	1.55E-06	1.78E-07	9.00E-09
95-ZR	5.40E-07	1.50E-07	<3.0E-02		<5.8E-05				<2.0E-07	
94-NB			<5.2E-04							
99-TC			<2.2E-04							
106-RU	2.70E-06	8.00E-07	<3.0E-03						<1.5E-06	
110M-AG	2.90E-07	1.80E-07	<4.0E-03				3.50E-03	1.75E-04	3.30E-06	8.00E-07
125-SB	4.70E-06	6.40E-07	6.10E-02	4.00E-03			3.20E-02	3.00E-03	5.40E-05	2.70E-06
129-I			<9.5E-05							
134-CS	1.20E-05	1.00E-06	1.00E-02	2.00E-03	3.80E-02	6.00E-03	5.80E-02	3.00E-03	7.00E-05	3.50E-06
135-CS										
137-CS	3.00E-05	1.50E-06	2.27E-02	1.14E-03	5.70E-02	3.00E-03	1.54E-01	7.70E-03	2.81E-04	1.40E-05
141-CE	<1.8E-08		<4.0E-02		<1.0E-03				<9.0E-08	
144-CE	6.40E-07	3.50E-07	<1.0E-03						<4.0E-07	
152-EU										
154-EU										
155-EU										
235-U							1.20E-06	6.00E-07	<2.4E-11	
238-U							2.20E-06	8.00E-07	<8.0E-10	
238-PU	1.95E-08	1.00E-09	2.70E-05	2.00E-06	2.60E-06	1.10E-06	1.70E-06	2.00E-07	3.10E-09	2.00E-10
239-PU	2.56E-08	1.30E-09	3.40E-05	2.00E-06	9.80E-06	2.10E-06	1.60E-06	2.00E-07	9.40E-10	8.00E-11
241-PU										
241-AM	2.88E-08	1.44E-09	1.95E-05	1.10E-06	2.80E-06	7.00E-07	5.80E-06	2.90E-07	7.10E-10	1.30E-10
242-CM	4.30E-08	2.15E-09	3.50E-05	3.00E-06	1.00E-06	4.00E-07	2.90E-06	6.00E-07	4.60E-09	2.30E-10
244-CM	3.50E-08	2.00E-09	1.40E-05	9.00E-07	1.20E-06	4.00E-07	3.20E-06	6.00E-07	3.00E-09	2.00E-10

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	YANKEE ROWE	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK
UNIT NUMBER:	0	0	0	0	0
PLANT TYPE:	PWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	SEACAST	SEACAST	SEACAST	SEACAST
START-UP DATE:	01-JUN-61	01-DEC-69	01-DEC-69	01-DEC-69	01-DEC-69
SAMPLE TYPE:	REACTOR COOLANT	FILTER SLUDGE	RESIN	FILTER SLUDGE	FILTER SLUDGE
SAMPLE SUB-TYPE:	SOLID	PRIMARY	PRIMARY	FUEL POOL	FUEL POOL
SAMPLING DATE:	26-JAN-81	19-NOV-81	08-DEC-81	21-OCT-81	08-DEC-81
SAMPLE NUMBER:	9213	9684	9685	9686	9687

Concentrations in microcuries/gram

A-74

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	1.14E-02	5.70E-04	2.02E+01	1.20E+00	1.06E+00	5.30E-02	1.52E+01	7.60E-01	6.20E+01	5.00E+00
55-FE										
58-CO	6.12E-02	3.06E-03	<4.0E-01		<1.1E-02		<2.0E-01		<1.0E+00	
60-CO	1.23E-02	6.15E-04	4.51E+02	2.25E+01	2.17E+01	1.10E+00	3.68E+02	1.84E+01	1.29E+03	6.45E+01
59-NI										
63-NI	2.46E-03	1.23E-04								
90-SR										
95-ZR	6.02E-03	5.59E-04								
94-NB										
99-TC										
106-RU	<6.0E-04		<2.5E+00		<9.0E-02		<1.5E+00		<1.1E+01	
110M-AG	<7.5E-05		<5.0E-01		<2.0E-02		<3.0E-01		<2.0E+00	
125-SB	<4.5E-04		<2.0E+00		<8.0E-02		2.60E+00	1.50E+00	<1.0E+01	
129-I										
134-CS	<6.6E-05		2.67E+01	1.34E+00	3.20E-01	2.00E-02	2.30E+00	3.00E-01	<4.0E+00	
135-CS										
137-CS	<1.7E-04		1.35E+02	6.75E+00	9.30E-01	4.65E-02	1.87E+01	9.35E-01	1.40E+01	4.00E+00
141-CE	6.72E-03	3.36E-04	<3.0E-01		<1.0E-02		<2.0E-01		<8.0E-01	
144-CE	5.93E-03	5.60E-04	4.50E+00	2.70E+00	<4.0E-02		<8.0E-01		<3.0E+00	
152-EU										
154-EU										
155-EU										
235-U	<4.4E-10									
238-U	<2.6E-10									
238-PU	7.68E-07	3.84E-08	7.80E-02	3.90E-03			5.50E-02	2.75E-03	1.65E-01	8.25E-03
239-PU	7.00E-06	3.50E-07	2.70E-02	1.35E-03	4.80E-04	2.40E-05	2.90E-02	1.45E-03	9.40E-02	4.70E-03
241-PU										
241-AM	1.04E-07	8.00E-09	4.00E-02	2.00E-03	3.10E-04	1.55E-05	4.00E-02	2.00E-03	1.07E-01	5.35E-03
242-CM	2.44E-06	1.22E-07	3.72E-02	1.86E-03	2.90E-04	1.45E-05	3.10E-02	1.55E-03	6.30E-02	3.15E-03
244-CM	4.20E-08	6.00E-09	1.12E-01	5.60E-03	2.90E-04	1.45E-05	7.70E-02	3.85E-03	2.54E-01	1.27E-02



# RADIOACTIVE WASTE SAMPLE LISTING

## SAI DATABASE

PLANT NAME:	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK
UNIT NUMBER:	0	0	0	0	0
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	SEACOAST	SEACOAST	SEACOAST	SEACOAST	SEACOAST
START-UP DATE:	01-DEC-69	01-DEC-69	01-DEC-69	01-DEC-69	01-DEC-69
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	EVAPORATOR BOTTOMS	FILTER SLUDGE
SAMPLE SUB-TYPE:	FUEL POOL	FUEL POOL	FUEL POOL	SOLID	PRIMARY
SAMPLING DATE:	08-DEC-81	08-DEC-81	08-DEC-81	18-MAR-81	25-MAR-81
SAMPLE NUMBER:	9688	9689	9690	9365	9366

Concentrations in microcuries/gram

A-75

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	2.80E+01	1.40E+00	1.80E+01	6.00E+00	1.27E+01	8.00E-01	2.00E-02	2.00E-03	5.80E-01	2.90E-02
55-FE										
58-CO	<3.0E-01		<2.0E+00		<2.0E-01		<9.0E-04		<6.0E-03	
60-CO	6.02E+02	3.01E+01	5.99E+02	3.00E+01	3.82E+02	1.91E+01	1.88E-01	9.40E-03	5.88E+00	2.94E-01
59-NI										
63-NI							3.80E-02	3.00E-03		
90-SR							1.90E-02	1.00E-03		
95-ZR									6.00E-02	4.00E-02
94-NB										
99-TC										
106-RU	<2.0E+00		<2.0E+01				<7.0E-03		<3.0E-02	
110M-AG			<3.0E+00		<3.0E-01		<1.4E-03		<7.0E-03	
125-SB	5.50E+00	9.00E-01	<2.1E+01		3.00E+00	2.00E+00	<7.0E-03		<3.0E-02	
129-I										
134-CS	8.70E+00	4.35E-01	5.80E+01	4.00E+00	6.20E+01	3.10E+00	1.18E-02	5.90E-04	2.24E-01	1.12E-02
135-CS										
137-CS	6.66E+01	3.33E+00	4.00E+01	2.00E+00	4.50E+02	2.25E+01	9.10E-02	4.55E-03	8.90E-02	4.45E-03
141-CE	<2.0E-01		<1.0E+00		<2.0E-01		<9.0E-04		<5.0E-03	
144-CE	<7.0E-01		<5.0E+00		<8.0E-01		<1.7E-03		7.30E-02	3.20E-02
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	8.30E-02	4.15E-03	8.00E-02	4.00E-03	5.70E-02	2.85E-03	4.80E-04	3.00E-05	2.10E-02	2.00E-03
239-PU	4.20E-02	2.10E-03	2.50E-02	9.00E-03	1.80E-02	1.00E-03	2.30E-04	1.15E-05	8.20E-03	6.00E-04
241-PU										
241-AM	4.40E-02	2.20E-03	3.20E-02	1.60E-03	2.20E-02	1.10E-03	1.05E-05	1.60E-06	3.60E-04	2.00E-05
242-CM	3.00E-02	1.50E-03	2.40E-02	1.20E-03	2.20E-02	1.10E-03	7.50E-06	1.60E-06	8.50E-04	4.25E-05
244-CM	8.80E-02	4.40E-03	6.20E-02	3.10E-03	4.60E-02	2.30E-03	8.70E-06	1.50E-06	9.90E-04	5.00E-05

RADIOACTIVE WASTE SAMPLE LISTING  
SAI DATABASE

PLANT NAME:	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK
UNIT NUMBER:	0	0	0	0	0
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	SEACOAST	SEACOAST	SEACOAST	SEACOAST	SEACOAST
START-UP DATE:	01-DEC-69	01-DEC-69	01-DEC-69	01-DEC-69	01-DEC-69
SAMPLE TYPE:	FILTER SLUDGE	FUEL POOL	RESIN	EVAPORATOR BOTTOMS	FILTER SLUDGE
SAMPLE SUB-TYPE:	PRIMARY	SLUDGE	PRIMARY	SOLID	PRIMARY
SAMPLING DATE:	23-MAR-81	06-NOV-81	12-OCT-81	02-SEP-81	16-OCT-81
SAMPLE NUMBER:	9367	9636	9637	9634	9635

Concentrations in microcuries/gram

A-76

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	2. 90E-02	3. 00E-03	1. 37E+03	1. 00E+02	5. 98E+01	2. 99E+00	5. 10E-02	2. 55E-03	5. 10E-02	1. 50E-02
55-FE										
58-CO	<9. 0E-04		<3. 0E+01		2. 20E+01	1. 10E+00	<1. 0E-03		5. 10E-02	1. 50E-02
60-CO	1. 70E-01	8. 50E-03	4. 00E+04	2. 00E+03	4. 73E+02	2. 36E+01	2. 23E-01	1. 11E-02	4. 45E+00	2. 22E-01
59-NI										
63-NI	8. 20E-03	4. 10E-04								
90-SR	9. 60E-04	4. 80E-05	4. 00E-01	2. 00E-02	9. 10E-02	4. 55E-03	3. 00E-03	1. 50E-04	2. 80E-03	5. 00E-04
95-ZR			<3. 0E+01		<4. 0E-01		<2. 0E-03		3. 50E-02	1. 70E-02
94-NB										
99-TC										
106-RU	<8. 0E-03						<7. 0E-03		1. 10E-01	7. 00E-02
110M-AG	<1. 4E-03						<1. 0E-03		<4. 0E-03	
125-SB	<7. 0E-03						<6. 0E-03		<2. 0E-02	
129-I										
134-CS	<9. 0E-04		1. 74E+02	8. 70E+00	<3. 0E-01		5. 50E-03	2. 75E-04	<2. 0E-03	
135-CS					<8. 0E-01					
137-CS	5. 50E-03	1. 50E-03	1. 62E+03	9. 00E+01	<8. 0E-01		5. 10E-02	2. 55E-03	<5. 0E-03	
141-CE	4. 40E-03	2. 50E-03	<1. 6E+01		<3. 0E-01		<1. 0E-03		1. 60E-02	7. 00E-03
144-CE	<1. 5E-03		<6. 3E+01		<7. 0E-01		<2. 0E-03		6. 20E-03	1. 90E-03
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	6. 50E-04	3. 25E-05	2. 30E-02	1. 15E-03	2. 90E-03	1. 45E-04	5. 20E-05	3. 00E-06	7. 10E-04	4. 00E-05
239-PU	2. 70E-04	1. 35E-05	1. 34E-02	7. 00E-04	5. 10E-04	3. 00E-05	2. 90E-05	2. 00E-06	3. 50E-04	2. 00E-05
241-PU										
241-AM	6. 80E-05	9. 00E-06	1. 95E-02	1. 00E-03	2. 10E-04	2. 00E-05	4. 20E-05	2. 10E-06	2. 90E-04	2. 00E-05
242-CM	9. 70E-05	1. 10E-05	1. 07E-02	5. 35E-04	1. 14E-02	6. 00E-04	3. 80E-05	2. 00E-06	4. 42E-03	2. 21E-04
244-CM	8. 70E-05	1. 10E-05	3. 29E-02	1. 64E-03	1. 24E-03	6. 20E-05	5. 50E-05	3. 00E-06	9. 90E-04	5. 00E-05

# RADIOACTIVE WASTE SAMPLE LISTING

SAJ DATABASE

PLANT NAME:	YANKEE ROWE	YANKEE ROWE	CALVERT CLIFFS	CALVERT CLIFFS	CALVERT CLIFFS
UNIT NUMBER:	0	0	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	SEACOAST	SEACOAST	SEACOAST
START-UP DATE:	01-JUN-61	01-JUN-61	01-MAY-75	01-MAY-75	01-MAY-75
SAMPLE TYPE:	FILTER CARTRIDGE	FILTER CARTRIDGE	RESIN	RESIN	RESIN
SAMPLE SUB-TYPE:	PRIMARY	FUEL POOL	PRIMARY	PRIMARY	PRIMARY
SAMPLING DATE:	22-AUG-77	20-MAY-77	26-OCT-76	26-OCT-76	26-OCT-76
SAMPLE NUMBER:	6859	T096	T071	T072	T073

Concentrations in microcuries/gram

A-77

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H					9.00E-04	1.60E-04	2.50E-03	3.00E-04	<4.6E-04	
14-C					<5.1E-01		<1.0E-03		3.80E-04	7.60E-05
54-MN	1.88E+00	9.40E-02	4.50E-01	2.25E-02	2.62E-04	1.31E-05	8.66E-02	4.33E-03	<9.9E-02	
55-FE										
58-CO	1.12E+00	7.00E-02	1.70E-02	4.00E-03	1.29E-04	7.00E-06	1.48E-01	7.40E-03	1.80E-01	1.60E-02
60-CD	9.80E+00	5.00E-01	2.00E+00	1.00E-01	3.34E-04	1.70E-04	1.03E-01	5.15E-03	1.28E-01	6.40E-03
59-NI					2.10E-03	6.00E-04	1.70E-03	9.00E-04	<2.9E-03	
63-NI					1.60E-01	8.00E-03	7.65E-02	3.83E-03	7.26E-02	3.63E-03
90-SR					2.20E-02	1.10E-03	1.52E-02	7.60E-04	1.53E-02	7.65E-04
95-ZR	3.80E-01	4.00E-02	<3.1E-03				<4.5E-04		<7.6E-03	
94-NB					<1.3E-04		<7.8E-05		<2.6E-04	
99-TC					<1.2E-04		<2.0E-05		<3.4E-04	
106-RU	7.60E-02	3.40E-02								
110M-AG	1.70E-01	6.00E-02	2.80E-01	2.00E-02						
125-SB	1.80E-02	9.00E-03	4.40E-03	1.60E-03	1.79E-06	1.10E-06	6.20E-04	2.10E-04		
129-I					<4.8E-05		<2.3E-05		<2.9E-05	
134-CS	4.90E-02	1.30E-02	2.00E-02	2.00E-03	3.11E-04	1.60E-05	7.61E-02	3.81E-03	7.30E-02	1.30E-02
135-CS										
137-CS	<7.3E-03		<1.5E-03		1.55E-03	8.00E-05	3.67E-01	1.83E-02	3.06E-01	1.53E-02
141-CE	<6.3E-02		<2.0E-03		<4.4E-05		<9.3E-04		<2.1E-02	
144-CE	1.90E-01	4.00E-02	5.20E-02	9.00E-03	2.66E-04	4.70E-05	<2.4E-03		4.73E-02	3.10E-02
152-EU										
154-EU										
155-EU										
235-U			<3.0E-06				<1.0E-07		<6.0E-07	
238-U			<5.0E-06		<8.0E-07		<1.0E-07		<6.0E-07	
238-PU	2.10E-04	3.00E-05	8.70E-05	1.20E-05	1.90E-05	3.00E-06	6.20E-06	8.00E-07	8.30E-06	7.00E-07
239-PU	4.00E-04	3.00E-05	1.30E-04	2.00E-05	1.90E-04	2.00E-05	6.60E-05	6.00E-06	6.40E-05	7.00E-06
241-PU					<2.0E-03		<2.2E-03		<5.4E-03	
241-AM	1.60E-04	6.00E-05	5.50E-05	7.00E-06	1.20E-05	2.00E-06	1.60E-05	8.00E-06	8.00E-06	3.00E-06
242-CM	4.90E-05	1.50E-05	3.60E-04	4.00E-05	4.00E-06	2.00E-06	<3.0E-06		<2.0E-06	
244-CM	4.90E-05	1.50E-05	2.20E-05	4.00E-06	<1.0E-06		<3.0E-06		<2.0E-06	

RADIOACTIVE WASTE SAMPLE LISTING  
SAJ DATABASE

PLANT NAME:	GINNA	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK
UNIT NUMBER:	0	0	0	0	0
PLANT TYPE:	PWR	DWR	DWR	BWR	BWR
PLANT LOCATION:	INLAND	SEACOAST	SEACOAST	SEACOAST	SEACOAST
START-UP DATE:	01-MAR-70	01-DEC-69	01-DEC-69	01-DEC-69	01-DEC-69
SAMPLE TYPE:	RESIN	RESIN	EVAPORATOR BOTTOMS	FILTER SLUDGE	EVAPORATOR BOTTOMS
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	SOLID	PRIMARY	SOLID
SAMPLING DATE:	16-OCT-76	08-SEP-80	27-OCT-80	22-OCT-80	25-SEP-79
SAMPLE NUMBER:	T074	9117	9118	9119	8090

Concentrations in microcuries/gram

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
A-78										
			2.60E-03	1.20E-03			<1.4E-03			
			<1.8E-02				9.00E-03	4.50E-04		
	4.30E-03	6.00E-04	2.43E+00	5.00E-01	4.30E-02	3.00E-03	2.13E-01	1.06E-02		
			<1.7E+00		<1.5E-03		<3.0E-03			
	8.20E-02	4.10E-03	1.78E+02	8.90E+00	2.70E-01	1.35E-02	1.01E+00	5.05E-02	8.40E+00	4.20E-01
	7.80E-01	4.00E-02	2.50E-02	3.00E-03			<8.0E-03			
			1.06E+00	1.00E-01			6.40E-02	1.40E-02		
			1.40E-02	1.00E-03	1.60E-03	1.00E-04	2.90E-03	1.45E-04	1.50E-01	1.00E-02
	6.90E-03	2.60E-03							2.80E-02	1.60E-02
			<1.2E-03				<6.7E-03			
			<1.8E-02				<4.4E-03			
	<2.4E-03		<1.0E+00		<9.0E-03		6.10E-02	3.80E-02		
	1.90E-02	1.00E-03	<2.0E-01		<2.0E-03		<3.0E-03			
			<7.0E-01		<9.0E-03		<1.0E-02		1.70E-01	1.00E-01
			<2.6E-04				<1.4E-02			
	1.30E-01	2.00E-02	1.90E+00	2.00E-01	1.80E-02	9.00E-04	8.70E-03	1.20E-03	1.70E-01	3.00E-02
			<1.2E-03				<6.7E-03			
			<1.8E-02				<4.4E-03			
	4.30E-01	2.15E-02	6.57E+00	3.40E-01	7.70E-02	3.85E-03	5.40E-02	4.00E-03	5.80E-01	3.00E-02
	<1.4E-03		<9.0E-01		<2.0E-03		<3.0E-03			
	4.10E-03	2.30E-03	<3.0E-01		<2.0E-03		2.10E-02	1.00E-02	2.90E-01	4.00E-02
	3.10E-05	1.00E-05								
	7.50E-05	3.00E-05								
	8.70E-05	3.00E-05								
	<1.0E-07									
	<1.0E-07									
	6.80E-04	8.00E-05	1.41E-02	7.05E-04	8.20E-05	4.10E-06	1.06E-04	5.30E-06		
	2.70E-04	4.00E-05	8.10E-03	4.05E-04	4.20E-05	2.10E-06	5.30E-05	3.00E-06		
	6.00E-03	3.00E-03	3.10E-01	6.20E-02						
	2.70E-05	4.00E-06	1.21E-03	6.05E-05	3.30E-05	2.00E-06	2.80E-05	3.00E-06		
	2.30E-04	4.00E-05	8.40E-04	5.00E-05	1.31E-04	7.00E-06	1.52E-04	8.00E-06		
	3.20E-05	5.00E-06	4.30E-04	2.15E-05	8.80E-05	4.40E-06	7.10E-05	4.00E-06		

# RADIOACTIVE WASTE SAMPLE LISTING

S A I . D A T A B A S E

PLANT NAME:	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK
UNIT NUMBER:	0	0	0	0	0
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	SEACOAST	SEACOAST	SEACOAST	SEACOAST	SEACOAST
START-UP DATE:	01-DEC-69	01-DEC-69	01-DEC-69	01-DEC-69	01-DEC-69
SAMPLE TYPE:	FILTER SLUDGE	RESIN	RESIN	RESIN	EVAPORATOR BOTTOMS
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	PRIMARY	SOLID
SAMPLING DATE:	25-SEP-79	28-SEP-79	28-SEP-79	28-SEP-79	19-MAR-82
SAMPLE NUMBER:	8091	8092	8093	8094	9846

Concentrations in microcuries/gram

A-79

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	1.46E+00	7.30E-02	5.70E-04	1.00E-04	8.40E-04	1.20E-04	4.70E-04	5.90E-05	1.88E-02	7.40E-04
55-FE									<2.2E-04	
58-CO									7.90E-02	3.95E-03
60-CO	6.13E+00	3.10E-01	8.60E-03	4.30E-04	1.02E-02	5.10E-04	4.60E-03	2.30E-04		
59-NI										
63-NI										
90-BR	8.80E-01	5.00E-02	8.80E-04	5.00E-05	1.10E-03	1.00E-04	1.00E-03	1.00E-04	2.70E-03	1.35E-04
95-ZR							7.80E-05	3.60E-05	<8.0E-05	
94-NB										
99-TC										
106-RU									<2.0E-03	
110M-AG									<3.0E-04	
125-SB									<2.0E-03	
129-I										
134-CS	3.40E-02	1.50E-02	3.40E-03	1.70E-04	3.50E-03	1.80E-04	1.25E-03	1.10E-04	1.20E-02	1.00E-03
135-CS										
137-CS	8.30E-02	1.90E-02	2.60E-02	1.30E-03	2.70E-02	1.35E-03	9.00E-03	4.50E-04	7.60E-02	3.80E-03
141-CE									<2.0E-04	
144-CE	1.40E-01	4.00E-02							<4.0E-04	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU									3.40E-05	1.70E-06
239-PU									1.50E-05	1.00E-06
241-PU										
241-AM									1.40E-06	1.00E-07
242-CM									7.80E-06	3.90E-07
244-CM									2.60E-06	1.30E-07

# RADIOACTIVE WASTE SAMPLE LISTING

S A J D A T A B A S E

PLANT NAME:	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	OYSTER CREEK
UNIT NUMBER:	0	0	0	0	0
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	SEACOAST	SEACOAST	SEACOAST	SEACOAST	SEACOAST
START-UP DATE:	01-DEC-69	01-DEC-69	01-DEC-69	01-DEC-69	01-DEC-69
SAMPLE TYPE:	FILTER SLUDGE	EVAPORATOR BOTTOMS	FILTER SLUDGE	EVAPORATOR BOTTOMS	FILTER SLUDGE
SAMPLE SUB-TYPE:	PRIMARY	SOLID	PRIMARY	SOLID	PRIMARY
SAMPLING DATE:	22-MAR-82	03-DEC-81	29-JAN-82	21-JAN-82	20-JAN-82
SAMPLE NUMBER:	9847	9799	9800	9801	9802

Concentrations in microcuries/gram

A-80

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H			<2.7E-04		<4.8E-04					
14-C			2.12E-04	8.90E-05	5.70E-04	6.80E-05				
54-MN	2.04E-01	1.02E-02	2.50E-02	2.00E-03	2.20E-01	1.10E-02	1.47E-03	2.30E-04	5.60E-01	2.80E-02
55-FE										
58-CO	1.08E-02	5.00E-03	<8.0E-04		1.20E-02	4.00E-03	<1.0E-04		3.90E-02	8.00E-03
60-CD	1.26E+00	6.30E-02	2.90E-01	1.45E-02	1.90E+00	1.00E-01	1.47E-02	1.20E-03	2.73E+00	1.37E-01
59-NI			<5.9E-02		<1.8E-03					
63-NI			<1.3E-02		8.40E-03	8.40E-04				
90-SR	1.09E-02	5.45E-04	1.13E-02	5.65E-04	4.83E-02	2.42E-03				
95-ZR	<2.0E-03		<2.0E-03		<2.0E-03		<1.0E-04		<3.0E-03	
94-NB			<9.7E-04		<7.0E-04					
99-TC			<3.0E-04		<6.0E-05					
106-RU	<1.2E-02		<3.0E-03		<6.0E+00		<1.0E-03		<1.0E-02	
110M-AG	<2.0E-03		<7.0E-04		<1.6E-03		<2.0E-04		<3.0E-03	
125-SB	<1.1E-02		<4.0E-03		<2.0E-02		<1.3E-03		<9.0E-03	
129-I			<7.3E-05		<6.2E-04					
134-CS	1.26E-02	6.30E-04	1.60E-01	1.00E-02	<6.4E-03		4.60E-02	2.30E-03	1.40E-02	4.00E-03
135-CS										
137-CS	5.90E-02	4.00E-03	9.10E-01	4.55E-02	3.30E-02	3.00E-03	3.40E-01	1.70E-02	4.20E-02	5.00E-03
141-CE	<1.2E-03		<9.0E-02		4.20E-01	2.00E-01	<2.0E-04		1.00E+00	4.00E-01
144-CE	<2.4E-03		9.30E-03	3.00E-03	9.20E-02	1.80E-02	<2.8E-05		1.80E-03	4.00E-04
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	4.80E-04	2.40E-05	3.30E-05	1.40E-05	2.50E-04	2.00E-05	7.90E-05	5.00E-06	2.30E-04	1.15E-05
239-PU	2.40E-04	1.20E-05	1.30E-05	2.00E-06	1.10E-04	1.00E-05	3.20E-05	3.00E-06	8.70E-05	5.00E-06
241-PU										
241-AM	1.56E-04	7.80E-06	1.40E-04	1.00E-05	1.20E-04	1.00E-05	3.60E-06	7.00E-07	8.80E-05	7.00E-06
242-CM	6.00E-04	3.00E-05	8.60E-05	8.00E-06	1.70E-04	1.00E-05	3.70E-06	7.00E-07	4.00E-04	2.00E-05
244-CM	3.40E-04	1.70E-05	3.20E-04	1.60E-05	2.30E-04	2.00E-05	3.60E-06	7.00E-07	1.60E-04	1.00E-05

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	OYSTER CREEK	OYSTER CREEK	DUANE ARNOLD	DUANE ARNOLD	DUANE ARNOLD
UNIT NUMBER:	0	0	0	0	0
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	SEACOAST	SEACOAST	INLAND	INLAND	INLAND
START-UP DATE:	00-DEC-69	01-DEC-69	01-MAY-74	01-MAY-74	01-MAY-74
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	RESIN	RESIN	RESIN
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	PRIMARY	PRIMARY
SAMPLING DATE:	05-FEB-82	05-FEB-82	10-MAY-79	21-MAR-79	27-MAR-79
SAMPLE NUMBER:	9803	9804	7815	7816	7817

Concentrations in microcuries/gram

A-81

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	9.60E-01	4.80E-02	1.46E+00	7.30E-02	3.73E+00	2.60E-01	4.10E-01	2.05E-02	7.10E-01	4.00E-02
55-FE										
58-CO	4.20E-02	5.00E-03	<2.0E-02		<2.0E-01		3.80E-02	4.00E-03	2.20E-01	1.10E-02
60-CO	2.65E+00	1.32E-01	2.71E+01	1.36E+00	1.43E+01	7.15E-01	1.80E+00	9.00E-01	1.92E+00	1.00E-01
59-NI										
63-NI					1.80E-01	1.00E-02	1.03E-02	7.00E-04	1.17E-02	7.00E-04
90-BR					3.50E-03	5.00E-04	2.95E-04	1.48E-05	4.80E-05	1.10E-05
95-ZR	2.80E-02	7.00E-03	<3.0E-02		<3.0E-01		<3.0E-03		<3.0E-03	
94-NB										
99-TC										
106-RU	<9.0E-03		<1.5E-01							
110M-AG	<2.0E-03		<1.4E-01		3.80E-01	1.70E-01	8.60E-03	3.60E-03	8.60E-03	3.60E-03
125-SB	<7.0E-03		<1.0E-01							
129-I										
134-CS	<6.0E-03		3.77E+00	1.89E-01	2.29E+00	1.70E-01	9.80E-02	5.00E-03	9.80E-02	5.00E-03
135-CS										
137-CS	2.50E-02	4.00E-03	1.47E+01	7.35E-01	5.11E+00	2.70E-01	1.51E-01	8.00E-03	1.50E-01	8.00E-02
141-CE	7.50E-01	2.70E-01	<2.0E-02		<7.0E-01		<3.0E-03		<3.0E-03	
144-CE	1.40E-02	3.00E-03	1.10E-01	3.00E-02						
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	2.70E-04	1.35E-05	1.01E-02	5.05E-04	9.00E-05	1.00E-05	2.30E-06	3.00E-07	<1.0E-06	
239-PU	1.12E-04	6.00E-06	3.15E-03	1.58E-04	4.50E-05	8.00E-06	1.19E-06	1.90E-07	<5.0E-07	
241-PU										
241-AM	1.00E-04	7.00E-06	2.13E-03	1.07E-04	2.10E-05	3.00E-06	9.00E-06	1.40E-06	2.80E-06	5.00E-07
242-CM	1.03E-03	5.15E-05	4.50E-04	2.25E-05	2.50E-06	1.10E-06	<4.7E-07		<4.0E-07	
244-CM	2.81E-03	1.40E-04	4.80E-03	2.40E-04	3.00E-06	1.00E-06	2.80E-06	7.00E-07	<4.0E-07	

# RADIOACTIVE WASTE SAMPLE LISTING

SAJ DATABASE

PLANT NAME:	DUANE ARNOLD	DUANE ARNOLD	DUANE ARNOLD	DUANE ARNOLD	DUANE ARNOLD
UNIT NUMBER:	0	0	0	0	0
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-MAY-74	01-MAY-74	01-MAY-74	01-MAY-74	01-MAY-74
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	PRIMARY	PRIMARY
SAMPLING DATE:	30-APR-79	09-MAY-77	28-FEB-81	27-MAR-81	04-APR-81
SAMPLE NUMBER:	7818	7819	9329	9330	9331

Concentrations in microcuries/gram

A-82

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	2.60E-02	1.30E-03	5.40E-01	3.00E-02	1.07E-01	5.35E-03	2.18E-01	1.09E-02	9.13E+01	4.57E+00
55-FE										
58-CO	3.00E-03	9.00E-04	6.40E-02	4.00E-03	2.70E-02	2.30E-03	1.13E-01	5.65E-03	3.05E+01	1.52E+00
60-CO	3.25E-01	1.62E-02	2.49E+00	1.24E-01	3.10E-01	1.55E-02	5.55E-01	2.78E-02	1.65E+02	8.25E+00
59-NI										
63-NI	7.30E-03	7.00E-04	3.40E-03	6.00E-04						
90-SR	2.90E-06	1.60E-06	2.10E-04	1.05E-05			1.64E-03	9.00E-05	2.50E-01	1.25E-02
95-ZR	<7.0E-04		<3.0E-02				<1.0E-03		<3.0E-01	
94-NB										
99-TC										
106-RU					<4.0E-03		<9.0E-03		<2.6E+00	
110M-AG							<2.0E-03		2.30E+00	4.00E-01
125-SB	2.50E-03	1.20E-03								
129-I										
134-CS	2.30E-02	1.15E-03	1.12E-01	5.60E-02	4.80E-02	2.40E-03	4.50E-02	2.25E-03	7.84E+00	3.92E-01
135-CS										
137-CS	3.60E-02	2.00E-03	1.82E-01	9.10E-02	8.70E-02	4.35E-03	9.10E-02	4.55E-03	1.34E+01	9.00E-01
141-CE	<7.0E-04		<2.0E-03		<6.0E-03		<6.0E-04		<2.4E-01	
144-CE							<2.0E-03		<8.0E-01	
152-EU										
154-EU										
155-EU										
235-U										
238-U							<2.0E-07		<4.0E-06	
238-PU	<4.0E-07		1.30E-06	2.00E-07	2.20E-06	3.00E-07	1.10E-06	3.00E-07	1.32E-04	4.50E-05
239-PU	<4.0E-07		8.50E-07	1.50E-07	1.92E-05	9.60E-07	2.10E-06	4.00E-07	5.90E-04	1.20E-04
241-PU										
241-AM	8.60E-07	8.00E-08	1.50E-06	3.00E-07	6.30E-07	1.10E-07	3.60E-07	1.00E-07	1.60E-05	5.00E-06
242-CM	<1.0E-06		<2.0E-07		8.00E-08	4.00E-08	<3.7E-08		3.30E-05	7.00E-06
244-CM	<1.0E-06		<1.0E-06		<4.0E-08		<3.0E-08		2.60E-06	1.80E-06



RADIOACTIVE WASTE SAMPLE LISTING  
S A I   D A T A B A S E

PLANT NAME:	DUANE ARNOLD	DUANE ARNOLD	FITZPATRICK	FITZPATRICK	FITZPATRICK
UNIT NUMBER:	0	0	0	0	0
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-MAY-74	01-MAY-74	01-JUL-75	01-JUL-75	01-JUL-75
SAMPLE TYPE:	RESIN	RESIN	REACTOR COOLANT	EVAPORATOR BOTTOMS	RESIN
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	SOLID	SOLID	PRIMARY
SAMPLING DATE:	31-MAR-81	03-APR-81	19-FEB-81	16-FEB-81	05-MAR-81
SAMPLE NUMBER:	9332	9333	9262	9263	9264

Concentrations in microcuries/gram

A-83

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	6.30E-01	1.00E-01	4.08E+00	2.04E-01	1.16E-05	5.80E-07	6.20E-01	3.10E-02	9.30E-01	4.65E-02
55-FE										
58-CO	9.10E-02	9.00E-03	1.61E+00	8.05E-02	1.07E-05	5.35E-07	2.40E-01	2.00E-02	1.80E-01	3.00E-02
60-CO	1.95E+00	9.75E-02	7.83E+00	3.91E-01	2.65E-05	1.32E-06	3.88E+00	1.94E-01	5.42E+00	2.71E-01
59-NI										
63-NI	1.27E-01	1.30E-02			4.87E-05	3.00E-06	2.25E-03	1.30E-04	1.18E-01	1.00E-02
90-SR	8.20E-04	6.00E-05	1.44E-03	1.40E-04						
95-ZR	<2.6E-03		<6.0E-03		7.90E-07	2.90E-07			<9.0E-03	
94-NB										
99-TC										
106-RU	<2.0E-02		<5.0E-07							
110M-AG	<4.0E-03		<9.0E-03							
125-SB										
129-I										
134-CS	7.00E-02	4.20E-03	7.50E-02	3.75E-03	<4.0E-08		1.04E-01	5.20E-03	2.65E-01	1.32E-02
135-CS										
137-CS	1.23E-01	8.00E-03	8.00E-02	1.80E-02	<1.0E-07		1.34E-01	1.30E-02	3.42E-01	2.10E-02
141-CE	2.50E-02	6.00E-03	<4.0E-03		1.12E-06	9.00E-08	<6.0E-03		<6.0E-03	
144-CE	<6.0E-03		<1.3E-02							
152-EU										
154-EU										
155-EU										
235-U	<1.4E-06		<1.0E-06							
238-U	<1.2E-06		<4.0E-07		<1.0E-11		<7.0E-07		<1.0E-07	
238-PU	4.00E-06	9.00E-07	1.26E-05	2.00E-06	2.80E-10	5.00E-11	1.05E-05	5.25E-07	2.42E-05	1.21E-06
239-PU	4.90E-06	1.00E-06	2.30E-05	3.00E-06	3.90E-10	6.00E-11	9.30E-06	5.00E-07	2.11E-05	1.05E-06
241-PU										
241-AM	1.55E-06	5.50E-07	1.80E-06	8.00E-07	6.10E-11	1.50E-11	2.40E-07	9.00E-08	7.80E-07	2.20E-07
242-CM	1.27E-06	5.20E-07	1.70E-06	9.00E-07	2.80E-10	4.00E-11	2.30E-06	3.00E-07	3.60E-06	5.00E-07
244-CM	<2.9E-07		<8.0E-07		2.10E-11	9.00E-12	3.40E-07	1.00E-07	6.00E-07	2.00E-07

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	FITZPATRICK	FITZPATRICK	FITZPATRICK	GINNA	GINNA
UNIT NUMBER:	0	0	0	0	0
PLANT TYPE:	DWR	BWR	BWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-JUL-75	01-JUL-75	01-JUL-75	01-MAR-70	01-MAR-70
SAMPLE TYPE:	EVAPORATOR BOTTOMS	RESIN	REACTOR COOLANT	RESIN	SMEAR
SAMPLE SUB-TYPE:	SOLID	PRIMARY	SOLID	PRIMARY	PRIMARY
SAMPLING DATE:	05-APR-82	30-APR-82	25-MAR-82	01-MAR-80	01-MAR-80
SAMPLE NUMBER:	9854	9856	9857	8470	8471

Concentrations in microcuries/gram

A-84

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	1.73E-01	8.65E-03	8.87E-01	4.43E-02	9.80E-05	4.90E-06	<1.6E-01		2.70E+00	1.35E-01
55-FE										
58-CO	3.30E-02	4.00E-03	2.57E-01	1.70E-02	2.90E-05	2.00E-06	<2.7E-01		1.62E+00	8.10E-02
60-CO	1.18E+00	5.90E-02	7.40E+00	3.70E-01	2.36E-04	1.18E-05	6.27E+01	3.13E+00	1.14E+00	6.00E-02
59-NI										
63-NI							1.42E+01	1.40E+00		
90-SR	3.60E-04	2.00E-05	4.60E-03	2.30E-04	4.60E-09	2.30E-10	5.90E-01	2.95E-02	2.10E-03	1.05E-04
95-ZR	<2.0E-03		<5.0E-03		<7.0E-07		<4.0E-01		5.10E-01	3.00E-02
94-NB										
99-TC										
106-RU	<7.0E-03				<4.0E-06				<5.4E-02	
110M-AG	<1.0E-03		<6.0E-03		<6.0E-07					
125-SB	<5.0E-03		<3.0E-02		<3.0E-06					
129-I										
134-CS	9.30E-02	5.00E-03	1.57E+00	7.85E-02	<4.0E-07		2.34E+01	1.20E+00		
135-CS										
137-CS	1.37E-01	6.85E-03	1.70E+00	8.50E-02	<1.0E-06		3.24E+02	1.62E+01	<2.0E-03	
141-CE	<1.0E-03		<4.0E-03		<5.0E-07		<6.0E-01		4.30E-02	3.00E-03
144-CE	<2.0E-03		<1.3E-02		<8.0E-07				7.90E-02	9.00E-03
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	9.90E-07	6.00E-08	3.80E-06	3.00E-07	1.07E-09	5.35E-11	4.30E-03	2.20E-04		
239-PU	9.70E-07	6.00E-08	5.60E-06	3.00E-07	1.32E-09	6.60E-11	7.20E-03	4.00E-04		
241-PU										
241-AM	3.20E-07	3.00E-08	1.30E-06	2.00E-07	2.10E-10	3.00E-11	3.60E-03	2.00E-04		
242-CM	2.90E-06	1.49E-07	4.00E-05	2.00E-06	1.50E-09	1.00E-10	1.08E-03	5.40E-05		
244-CM	<4.5E-07		2.30E-06	3.00E-07	2.50E-10	3.00E-11	7.60E-04	4.00E-05		

# RADIOACTIVE WASTE SAMPLE LISTING

SAI DATABASE

PLANT NAME:	GINNA	BRUNSWICK	BRUNSWICK
UNIT NUMBER:	0	1	1
PLANT TYPE:	PWR	BWR	BWR
PLANT LOCATION:	INLAND	SEACOAST	SEACOAST
START-UP DATE:	01-MAR-70	01-MAR-77	01-MAR-77
SAMPLE TYPE:	RESIN	EVAPORATOR BOTTOMS	RESIN
SAMPLE SUB-TYPE:	PRIMARY	SOLID	SECONDARY
SAMPLING DATE:	01-MAR-80	01-MAR-80	04-MAR-82
SAMPLE NUMBER:	8472	8473	9806

Concentrations in microcuries/gram

A-85

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	2.60E-04	1.00E-04	<1.7E-04		1.79E+01	1.00E+00	4.27E+00	2.13E-01	2.80E+00	2.00E-01
55-FE										
58-CO	<7.0E-05		8.70E-02	4.35E-03	1.30E+00	8.40E-01	1.27E+00	6.35E-02	7.20E-01	3.60E-02
60-CD	1.11E-03	5.55E-05	3.70E-02	2.00E-03	3.43E+01	1.72E+00	3.13E+00	1.56E-01	4.30E+00	2.15E-01
59-NI					7.60E-03	8.00E-04	8.70E-04	1.10E-04	2.70E-03	4.00E-04
63-NI	2.50E-03	3.00E-04	7.70E-03	8.00E-04	3.37E-01	1.80E-02	4.08E-02	2.50E-03	4.91E-02	3.60E-03
90-SR	1.37E-04	6.85E-06	1.34E-04	6.70E-06	1.31E-01	7.00E-03	5.60E-04	3.00E-05	1.50E-02	7.50E-04
95-ZR	<1.0E-04		<5.0E-04		<2.0E-01		<3.0E-03		1.50E-02	1.00E-02
94-NB										
99-TC										
106-RU					<2.0E-01		<4.0E-02		<3.0E-02	
110M-AG	2.50E-04	1.10E-04	9.60E-04	5.90E-04	3.40E-01	2.00E-02	7.80E-02	8.00E-03	4.80E-02	8.00E-03
125-SB			2.20E-03	1.10E-03	<2.0E-01		<3.0E-02		<3.0E-02	
129-I										
134-CS	1.60E-03	8.00E-05	3.20E-02	2.00E-03	1.77E+01	8.85E-01	6.50E-02	6.00E-03	1.76E+00	8.80E-02
135-CS										
137-CS	2.10E-02	1.05E-03	7.60E-02	4.00E-03	2.64E+01	1.50E+00	9.70E-02	1.40E-02	2.25E+00	1.12E-01
141-CE	<9.0E-05		<6.0E-04		<3.3E-02		<3.1E-03		<3.6E-03	
144-CE					1.00E-02	3.00E-03	<7.0E-05		6.70E-04	2.50E-04
152-EU										
154-EU										
155-EU										
235-U					<9.6E-06		<1.9E-07		<2.5E-07	
238-U					<3.0E-05		<8.1E-08		<1.9E-07	
238-PU	4.20E-05	4.00E-06	4.40E-05	3.00E-06	2.60E-05	1.30E-06	1.60E-06	2.00E-07	5.60E-06	3.00E-07
239-PU	3.70E-05	1.85E-06	1.19E-05	1.30E-06	5.90E-05	2.95E-06	1.25E-06	1.40E-07	9.00E-06	4.50E-07
241-PU										
241-AM	2.90E-05	1.45E-06	1.05E-05	8.00E-07	1.12E-05	5.60E-07	2.60E-06	1.00E-06	4.40E-06	1.00E-06
242-CM	6.00E-06	9.00E-07	3.20E-06	6.00E-07	4.30E-04	2.15E-05	2.90E-05	2.00E-06	9.80E-05	4.90E-06
244-CM	9.20E-06	9.00E-07	3.20E-06	5.00E-07	5.60E-06	3.00E-07	6.80E-07	3.30E-07	1.10E-06	4.00E-07

# RADIOACTIVE WASTE SAMPLE LISTING

SAI DATABASE

PLANT NAME:	QUAD CITIES	ZION	ZION	ZION	ZION
UNIT NUMBER:	2	1	2	1	1
PLANT TYPE:	BWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-OCT-72	01-JUN-73	01-DEC-73	01-JUN-73	01-JUN-73
SAMPLE TYPE:	FILTER SLUDGE	RESIN	RESIN	RESIN	RESIN
SAMPLE SUB-TYPE:	PRIMARY	RADWASTE	SECONDARY	SECONDARY	SECONDARY
SAMPLING DATE:	26-MAY-81	20-APR-81	24-APR-81	08-APR-81	04-JUN-81
SAMPLE NUMBER:	9386	9604	9605	9606	9607

Concentrations in microcuries/gram

A-86

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	2.14E+00	1.30E-01	1.60E-05	1.00E-06	1.50E-05	9.00E-06	1.50E-05	1.00E-06	3.60E-07	1.30E-07
55-FE										
58-CO	7.90E-01	1.30E-01	1.46E-04	7.30E-06	4.50E-05	1.00E-05	5.90E-06	9.00E-07	2.30E-06	2.00E-07
60-CO	4.25E+01	2.40E+00	5.03E-04	2.52E-05	6.60E-04	7.00E-05	3.42E-04	1.71E-05	8.33E-06	4.17E-07
59-NI										
63-NI										
90-SR	3.26E+00	1.70E-01	1.12E-07	1.20E-08	9.60E-08	1.00E-08	1.04E-06	1.10E-07	1.18E-08	4.00E-09
95-ZR	<3.0E-02		7.60E-06	2.30E-06						
94-NB										
99-TC										
106-RU	<3.0E-01		<3.0E-06		<5.0E-05		<3.0E-06		<7.0E-07	
110M-AG	<6.0E-02				<5.0E-06		<4.0E-07		<1.6E-08	
125-SB	<3.0E-01		4.90E-05	2.45E-06	<7.0E-05		<3.0E-06		7.50E-06	3.75E-07
129-I										
134-CS	8.50E+00	4.25E-01	3.90E-05	8.00E-06	3.20E-03	2.00E-04	8.10E-05	4.05E-06	<1.0E-07	
135-CS										
137-CS	1.62E+01	8.10E-01	4.90E-05	2.45E-06	1.51E-02	7.55E-04	3.72E-04	1.86E-05	<4.0E-07	
141-CE	<3.0E-02		<2.0E-07		<5.0E-06		<2.0E-07		<3.0E-08	
144-CE	<1.0E-02		<9.0E-07		<2.0E-05		<8.0E-07		<2.0E-07	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	2.70E-02	1.35E-03	1.19E-08	6.00E-10	9.30E-09	5.00E-10	3.00E-09	2.00E-10	8.80E-10	7.00E-11
239-PU	1.10E-02	1.00E-03	9.30E-09	5.00E-10	1.22E-08	6.10E-10	2.95E-09	1.70E-10	7.30E-10	6.00E-11
241-PU										
241-AM	4.60E-04	2.30E-05	4.60E-09	2.30E-10	6.20E-09	3.10E-10	2.80E-09	2.00E-10	8.00E-10	7.00E-11
242-CM	3.40E-03	2.00E-04	7.60E-08	4.00E-09	3.50E-08	2.00E-09	2.10E-09	2.00E-10	<6.2E-09	
244-CM	2.20E-03	1.10E-04	1.70E-08	1.00E-09	7.60E-09	4.00E-10	1.83E-09	1.50E-10	<1.2E-09	

# RADIOACTIVE WASTE SAMPLE LISTING

RAI DATABASE

PLANT NAME:	ZION	ZION	ZION	ZION	ZION
UNIT NUMBER:	1	1	2	2	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-JUN-73	01-JUN-73	01-DEC-73	01-DEC-73	01-JUN-73
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLE SUB-TYPE:	RADWASTE	SECONDARY	SECONDARY	PRIMARY	PRIMARY
SAMPLING DATE:	15-JUN-81	11-AUG-81	19-AUG-81	08-JUL-81	22-JUL-80
SAMPLE NUMBER:	9608	9609	9610	9611	9471

Concentrations in microcuries/gram

A-87

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	1.84E-05	1.10E-06	2.80E-05	1.40E-06	4.00E-07	2.60E-07	2.40E-07	1.50E-07	7.00E-05	8.00E-06
55-FE										
58-CO	1.17E-04	5.85E-06	8.00E-05	4.00E-06	2.00E-06	3.00E-07	1.30E-06	2.00E-07	2.20E-03	1.10E-04
60-CD	5.67E-04	2.83E-05	3.11E-04	1.56E-05	2.34E-05	1.17E-06	3.73E-06	1.20E-06	3.70E-03	1.85E-04
59-NI										
63-NI										
90-SR	5.80E-08	6.00E-09	5.90E-08	6.00E-09	1.30E-08	3.00E-09	<1.0E-08		1.06E-06	6.00E-08
95-ZR	4.90E-06	1.60E-06	<2.6E-06						<7.0E-06	
94-NB										
99-TC										
106-RU	1.40E-05	8.00E-06	<4.0E-06		<2.0E-06		<2.0E-06		<2.0E-05	
110M-AG	1.50E-05	1.00E-06			1.10E-06	1.00E-07	<2.0E-07		2.40E-05	2.00E-06
125-SB	3.30E-05	2.00E-06	<4.2E-06		2.20E-06	3.00E-07	<2.0E-06		1.26E-04	6.30E-06
129-I										
134-CS	3.50E-05	4.00E-06	1.00E-04	5.00E-06	1.90E-06	4.00E-07	5.70E-05	3.00E-06	5.50E-05	8.00E-06
135-CS										
137-CS	4.70E-05	2.35E-06	1.79E-04	8.93E-06	1.08E-05	5.40E-07	1.22E-04	6.10E-06	9.70E-05	4.85E-06
141-CE	<2.0E-07		<2.0E-07		<5.0E-08		<9.0E-08		<2.0E-03	
144-CE	<7.0E-07		<4.0E-06		<4.0E-07		<5.0E-07		<5.0E-06	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	5.30E-08	3.00E-09	3.80E-09	2.00E-10	2.28E-09	1.14E-10	8.60E-10	8.00E-11	6.40E-08	3.20E-09
239-PU	4.30E-08	2.15E-09	2.80E-09	1.40E-10	2.60E-09	1.30E-10	4.10E-10	6.00E-11	5.30E-08	3.00E-09
241-PU										
241-AM	2.40E-08	1.20E-09	2.30E-09	2.00E-10	2.10E-09	1.05E-10	2.54E-09	1.30E-10	2.20E-08	1.10E-09
242-CM	2.30E-07	1.15E-08	3.54E-08	1.80E-09	3.30E-09	2.00E-10	6.60E-10	8.00E-11	3.04E-07	1.52E-08
244-CM	8.00E-08	4.00E-09	7.40E-09	4.00E-10	1.55E-09	8.00E-11	5.50E-10	6.00E-11	4.50E-08	2.25E-09

RADIOACTIVE WASTE SAMPLE LISTING  
(RA) DATABASE

PLANT NAME:	ZION	ZION	ZION	ZION	ZION
UNIT NUMBER:	1	1	2	2	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-JUN-73	01-JUN-73	01-DEC-73	01-DEC-73	01-JUN-73
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	PRIMARY	PRIMARY
SAMPLING DATE:	28-JUL-80	23-JUN-80	08-OCT-80	16-OCT-80	14-DEC-80
SAMPLE NUMBER:	9472	9473	9474	9475	9476

Concentrations in microcuries/gram

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
A-88										
3-H										
14-C										
54-MN	2.40E-06	1.20E-06	1.01E-04	8.00E-06	2.70E-05	2.00E-06	9.00E-05	1.00E-05	1.16E-04	1.00E-05
55-FE										
58-CO	6.10E-05	1.90E-05	3.03E-03	1.70E-04	1.28E-03	6.40E-05	1.47E-03	9.00E-05	3.10E-04	5.00E-05
60-CO	9.90E-05	4.95E-06	1.50E-03	8.00E-05	1.48E-03	7.40E-05	1.39E-03	6.95E-05	4.05E-03	2.02E-04
59-NI										
63-NI										
90-SR	1.50E-08	8.00E-09	1.33E-06	7.00E-08	1.03E-07	1.50E-08	5.30E-07	3.00E-08	1.10E-06	6.00E-08
95-ZR	<2.0E-04		<3.0E-03		<8.0E-05		<4.0E-04		<2.0E-04	
94-NB										
99-TC										
106-RU	<4.0E-06		<2.0E-05		<4.0E-06		<3.0E-05		<2.0E-05	
110M-AG	5.60E-06	9.00E-07	<4.0E-06		1.16E-05	1.80E-06	7.50E-06	3.75E-07	1.50E-05	1.00E-05
125-SB	2.10E-05	3.00E-06	<2.0E-05		1.60E-05	2.00E-06	<2.0E-05		<2.0E-05	
129-I										
134-CS	8.20E-05	4.10E-06	5.07E-04	2.54E-05	5.10E-06	2.55E-07	7.70E-04	3.85E-05	4.00E-04	2.00E-05
135-CS										
137-CS	1.44E-04	7.20E-06	9.70E-04	4.85E-05	6.20E-06	1.10E-06	9.90E-04	4.95E-05	5.83E-04	2.92E-05
141-CE	3.00E-04	1.50E-05	<4.0E-03		<1.0E-04		<5.0E-04		<2.0E-04	
144-CE	<2.0E-06		<8.0E-06		<2.0E-06		<1.0E-05		<8.0E-06	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	8.50E-09	4.25E-10	1.40E-08	7.00E-10	3.30E-08	2.00E-09	9.60E-09	5.00E-10	1.63E-08	8.15E-10
239-PU	4.90E-09	3.00E-10	1.24E-08	6.20E-10	2.90E-08	2.00E-09	5.10E-09	3.00E-10	1.11E-08	5.55E-10
241-PU										
241-AM	3.00E-09	2.00E-10	6.40E-09	4.00E-10	1.70E-08	1.00E-09	3.60E-09	4.00E-10	8.60E-09	8.00E-10
242-CM	3.30E-08	2.00E-09	4.60E-08	3.00E-09	1.83E-07	9.15E-09	5.50E-08	3.00E-09	7.10E-08	4.00E-09
244-CM	9.30E-09	5.00E-10	6.80E-09	4.20E-10	3.80E-08	2.00E-09	1.50E-08	1.00E-09	1.70E-08	1.00E-09

# RADIOACTIVE WASTE SAMPLE LISTING

SAJ DATABASE

PLANT NAME:	ZION	ZION	ZION	ZION	ZION
UNIT NUMBER:	1	2	1	1	2
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-JUN-73	01-DEC-73	01-JUN-73	01-JUN-73	01-DEC-73
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	PRIMARY	PRIMARY
SAMPLING DATE:	02-JAN-81	23-OCT-80	20-OCT-80	04-FEB-81	20-MAR-81
SAMPLE NUMBER:	9477	9478	9479	9480	9481

Concentration in microcuries/gram

A-89

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	1.40E-05	3.00E-06	2.70E-05	4.00E-06	2.79E-03	1.39E-04	3.95E-04	1.97E-05	2.70E-05	3.00E-06
55-FE										
58-CO	7.50E-04	3.75E-05	6.10E-04	4.00E-05	4.83E-01	2.42E-02	1.01E-02	5.05E-04	1.13E-03	5.65E-05
60-CO	3.03E-04	1.51E-05	7.40E-04	3.70E-05	9.10E-03	1.30E-03	2.29E-02	1.14E-03	4.66E-04	2.33E-05
59-NI										
63-NI										
90-SR	3.30E-08	1.60E-08	8.60E-08	1.20E-08	4.00E-05	2.00E-06	2.78E-06	1.40E-07	3.80E-07	2.00E-08
95-ZR	3.00E-04	1.00E-04	<2.0E-04		1.29E+00	6.00E-01	5.00E-04	2.00E-04	1.40E-04	3.00E-05
94-NB										
99-TC										
106-RU	<1.0E-05		<1.0E-05				<4.0E-05		<1.0E-05	
110M-AG	8.50E-06	2.50E-06	9.20E-06	2.10E-06	1.39E-03	6.95E-05	2.10E-05	3.00E-06	1.70E-05	3.00E-06
125-SB	8.60E-06	5.10E-06	1.07E-05	6.00E-06	3.40E-03	1.90E-03	<3.0E-05		<9.0E-06	
129-I										
134-CS	<1.0E-06		1.07E-05	9.00E-07	9.10E-02	5.00E-03	2.90E-05	3.00E-06	6.90E-05	4.00E-06
135-CS										
137-CS	<4.0E-06		1.56E-05	2.20E-06	8.60E-02	4.30E-03	4.10E-05	9.00E-06	1.20E-04	6.00E-06
141-CE	<3.0E-05		<2.0E-04		<7.0E-01		<1.0E-04		<1.0E-05	
144-CE	<3.0E-06		<4.0E-06				<2.0E-05		<4.0E-06	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	1.69E-08	8.45E-10	1.69E-08	8.45E-10	2.70E-07	1.35E-08	7.40E-08	4.00E-09	2.50E-08	1.25E-09
239-PU	1.09E-08	6.00E-10	1.35E-08	7.00E-10	2.09E-07	1.04E-08	6.00E-08	3.00E-09	2.80E-08	1.40E-09
241-PU										
241-AM	7.20E-09	6.00E-10	9.20E-09	5.00E-10	9.80E-08	5.00E-09	3.60E-08	2.00E-09	1.51E-08	8.00E-10
242-CM	2.07E-07	1.10E-08	1.20E-07	6.00E-09	5.30E-07	3.00E-07	3.20E-07	2.00E-08	1.94E-07	1.00E-08
244-CM	3.20E-08	2.00E-09	2.10E-08	1.05E-09	3.50E-07	2.00E-08	7.50E-08	4.00E-09	2.90E-08	2.00E-09

# RADIOACTIVE WASTE SAMPLE LISTING

SAJ DATABASE

PLANT NAME:	ZION	ZION	ZION	ZION	ZION
UNIT NUMBER:	1	1	1	2	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-JUN-73	01-JUN-73	01-JUN-73	01-DEC-73	01-JUN-73
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	PRIMARY	PRIMARY
SAMPLING DATE:	24-JAN-81	17-JAN-81	23-FEB-81	15-MAR-81	22-OCT-81
SAMPLE NUMBER:	9482	9483	9484	9485	9767

Concentrations in microcuries/gram

A-90

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	7.60E-06	1.80E-06	3.39E-04	1.69E-05	1.10E-04	1.30E-05	<3.0E-05		<2.3E-14	
55-FE										
58-CO	3.80E-05	7.00E-06	5.50E-04	3.00E-05	5.53E-02	2.77E-03	<8.0E-05		3.15E-02	1.58E-03
60-CO	2.36E-04	1.18E-05	3.30E-04	1.65E-05	6.59E-03	3.30E-04	2.40E-03	4.00E-04	4.00E-03	2.00E-04
59-NI										
63-NI										
90-SR	4.10E-07	2.05E-08	2.26E-05	1.20E-06	1.92E-07	1.00E-08	5.90E-06	3.00E-07	1.30E-06	6.00E-07
95-ZR	<5.0E-05		2.00E-04	1.00E-04	<6.0E-05				8.90E-04	9.00E-05
94-NB										
99-TC										
106-RU	<5.0E-06		<2.0E-05		<4.0E-05				<6.0E-05	
110M-AG	4.70E-06	2.35E-07	<3.0E-06		<6.0E-06				7.50E-05	2.00E-05
125-SB	1.06E-06	5.30E-08	<2.0E-05		<3.0E-05				<4.0E-05	
129-I										
134-CS	5.50E-05	2.75E-06	9.20E-05	4.60E-06	8.50E-04	4.25E-05	2.28E-02	1.14E-03	9.60E-04	5.00E-05
135-CS										
137-CS	8.80E-05	4.40E-06	1.40E-04	7.00E-06	9.50E-04	4.75E-05	8.60E-02	4.30E-03	1.43E-03	7.15E-05
141-CE	<2.0E-05		<5.0E-05		<9.0E-05		<5.0E-04		<4.0E-05	
144-CE	<3.0E-06		<7.0E-06		<2.0E-05				<3.0E-05	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	1.95E-08	1.00E-09	2.80E-09	2.00E-10	1.37E-08	7.00E-10	2.39E-08	1.40E-09	4.30E-08	2.15E-09
239-PU	1.86E-08	9.30E-10	1.70E-09	2.00E-10	1.02E-08	5.10E-10	4.60E-08	2.30E-09	2.20E-08	1.10E-09
241-PU										
241-AM	1.01E-08	1.00E-09	1.18E-09	1.00E-10	7.40E-09	4.00E-10	2.30E-08	8.00E-09	1.30E-08	2.00E-09
242-CM	7.70E-08	4.00E-09	3.80E-08	2.00E-09	3.77E-07	1.90E-08	5.60E-09	2.00E-09	2.46E-07	1.23E-08
244-CM	2.17E-08	1.10E-09	2.80E-09	2.00E-10	2.60E-08	2.00E-09	9.20E-09	1.90E-09	5.10E-08	3.00E-09



# RADIOACTIVE WASTE SAMPLE LISTING

SAI DATABASE

PLANT NAME:	ZION	ZION	ZION	ZION	ZION
UNIT NUMBER:	2	2	1	2	2
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-73	01-DEC-73	01-JUN-73	01-DEC-73	01-DEC-73
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLE SUB-TYPE:	PRIMARY	SECONDARY	PRIMARY	PRIMARY	PRIMARY
SAMPLING DATE:	27-OCT-81	29-OCT-81	29-OCT-81	04-NOV-81	07-NOV-81
SAMPLE NUMBER:	9768	9769	9770	9771	9772

Concentrations in microcuries/gram

A-91

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	1.10E-07	4.00E-08	<6.0E-08		<1.0E-07		1.70E-03	2.00E-04	2.90E-06	4.00E-07
55-FE										
58-CO	7.60E-07	1.20E-07	4.50E-06	3.00E-07	5.50E-06	4.00E-07	1.64E-01	8.20E-03	3.20E-05	1.60E-06
60-CO	<4.0E-07		4.20E-06	2.10E-07	2.70E-06	6.00E-07	2.17E-02	1.08E-03	9.40E-05	4.70E-06
59-NI										
63-NI										
90-SR	1.80E-08	3.00E-09	<4.0E-09		<6.0E-09		4.10E-06	2.05E-07	4.50E-08	3.00E-09
95-ZR	<6.0E-09		<1.0E-07		<3.0E-07		<4.0E-04		<6.0E-07	
94-NB										
99-TC										
106-RU	<8.0E-07		<4.0E-07		<8.0E-07		<9.0E-04		<1.0E-08	
110M-AG	<1.0E-07		1.10E-06	3.00E-07	1.19E-06	8.00E-08	2.60E-03	3.00E-04	6.30E-06	3.15E-07
125-SB	<1.0E-06		2.63E-06	1.32E-07	1.62E-06	8.10E-08	<7.0E-04		<9.0E-07	
129-I										
134-CS	2.70E-05	2.00E-06	2.60E-07	8.00E-08	5.70E-06	4.00E-07	1.30E-03	3.00E-04	1.20E-05	6.00E-07
135-CS										
137-CS	3.33E-05	1.67E-06	3.60E-07	9.00E-08	8.70E-06	4.35E-07	1.50E-03	3.00E-04	2.44E-05	1.22E-06
141-CE	<8.0E-09		<9.0E-08		<2.0E-07		<4.0E-04		<6.0E-07	
144-CE	<3.0E-07		<9.0E-08		<2.0E-07		<3.0E-04		<4.0E-07	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	1.40E-09	2.00E-10	5.20E-09	3.00E-09	1.18E-08	8.00E-10	5.10E-08	2.55E-09	4.30E-09	3.00E-10
239-PU	3.70E-10	8.00E-11	<5.4E-10		1.60E-09	4.00E-10	1.60E-08	1.00E-09	3.40E-09	3.00E-10
241-PU										
241-AM	1.40E-09	3.00E-10	1.20E-09	2.00E-10	6.10E-09	1.00E-09	1.50E-07	3.00E-08	1.30E-09	3.00E-10
242-CM	4.00E-10	2.00E-10	4.90E-09	4.00E-10	1.00E-09	5.00E-10	<2.4E-08		8.60E-10	2.80E-10
244-CM	2.00E-10	1.20E-10	1.30E-09	2.00E-10	9.00E-10	4.00E-10	1.30E-08	8.00E-09	2.30E-10	1.20E-10

# RADIOACTIVE WASTE SAMPLE LISTING

S A I   D A T A B A S E

PLANT NAME:	ZION	ZION	ZION	ZION
UNIT NUMBER:	2	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-73	01-JUN-73	01-JUN-73	01-JUN-73
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN
SAMPLE SUB-TYPE:	FUEL POOL	PRIMARY	PRIMARY	SECONDARY
SAMPLING DATE:	10-NOV-81	17-NOV-81	11-DEC-81	15-DEC-81
SAMPLE NUMBER:	9773	9774	9775	9776

Concentrations in microcuries/gram

A-92

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	6.40E-04	3.20E-05	<4.0E-07		6.00E-06	1.00E-06	1.00E-07	3.00E-08	9.00E-08	4.00E-08
55-FE										
58-CO	1.42E-01	7.10E-03	5.54E-04	2.77E-05	2.22E-04	1.11E-05	4.80E-06	2.40E-07	3.30E-06	1.65E-07
60-CO	8.70E-02	4.35E-03	1.92E-04	9.60E-06	1.26E-04	6.30E-06	2.70E-06	3.00E-07	1.48E-06	7.40E-08
59-NI										
63-NI										
90-SR	4.80E-05	2.40E-06	1.10E-08	3.00E-09	2.60E-08	8.00E-09	<1.2E-09		<3.0E-09	
95-ZR	<4.0E-04		7.00E-05	4.00E-05	1.30E-05	3.00E-06	<3.0E-08		<6.0E-07	
94-NB										
99-TC										
106-RU	<7.0E-04		<4.0E-06		<5.0E-06		<2.0E-07		<1.0E-08	
110M-AO	1.10E-03	1.00E-04	3.30E-06	4.00E-07	6.50E-06	3.25E-07	2.00E-06	7.00E-07	6.30E-06	3.15E-07
125-SB	<2.0E-03		<3.0E-06		<5.0E-06		3.40E-06	1.70E-07	<9.0E-07	
129-I										
134-CS	1.60E-03	3.00E-04	5.30E-05	3.00E-06	7.90E-05	4.00E-06	5.00E-07	2.50E-08	1.20E-05	6.00E-07
135-CS										
137-CS	1.50E-03	2.00E-04	7.20E-05	3.60E-06	1.18E-04	5.90E-06	6.00E-07	8.00E-08	2.44E-05	1.22E-06
141-CE	<3.0E-04		<2.0E-06		<1.0E-06		<3.0E-08		<6.0E-07	
144-CE	<3.0E-04		<2.0E-06		<2.0E-06		<4.0E-08		<4.0E-07	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	5.40E-07	2.70E-08	3.10E-09	2.00E-10	4.80E-09	4.00E-10	7.60E-10	1.30E-10	7.00E-10	1.00E-10
239-PU	1.77E-07	9.00E-09	9.20E-10	1.00E-10	1.20E-09	2.00E-10	1.80E-10	6.00E-11	2.80E-10	7.00E-11
241-PU										
241-AM	2.50E-07	2.00E-08	1.40E-09	2.00E-10	1.20E-08	4.00E-09	<3.0E-08		<1.2E-09	
242-CM	7.20E-07	4.00E-08	4.60E-09	5.00E-10	1.20E-08	3.00E-09	<2.0E-09		<2.0E-10	
244-CM	6.10E-07	3.05E-08	1.10E-09	2.00E-10	4.60E-09	2.00E-09	1.40E-08	6.00E-09	<9.0E-11	

RADIOACTIVE WASTE SAMPLE LISTING  
SAD DATABASE

PLANT NAME:	ZION	ZION	THREE MILE ISLAND	VERMONT YANKEE	VERMONT YANKEE
UNIT NUMBER:	1	2	2	0	0
PLANT TYPE:	PWR	PWR	PWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-JUN-73	01-DEC-73	01-DEC-78	01-NOV-72	01-NOV-72
SAMPLE TYPE:	RESIN	RESIN	REACTOR COOLANT	REACTOR COOLANT	SMEAR
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	SOLID	TOTAL	PRIMARY
SAMPLING DATE:	21-DEC-81	30-DEC-81	27-MAR-79	10-OCT-82	10-OCT-82
SAMPLE NUMBER:	9778	9779	9245	9978	9980

Concentrations in microcuries/gram

A-93

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H					6.45E-01	3.22E-02	1.16E-02	5.80E-04	1.20E-03	3.00E-04
14-C					5.70E-04	6.00E-05	1.81E-06	8.00E-07	1.60E-04	5.00E-05
54-MN	5.30E-05	3.00E-06	8.30E-06	3.50E-06	<5.0E-04		1.16E-04	5.65E-06	9.00E-04	5.00E-05
55-FE										
58-CO	4.60E-03	2.30E-04	2.82E-03	1.41E-04	<5.0E-04		1.71E-04	8.45E-06	2.30E-04	7.00E-05
60-CO	1.02E-03	5.10E-05	4.84E-04	2.42E-05	2.40E-03	5.00E-04	2.80E-04	1.36E-05	1.22E-02	6.10E-04
59-NI							<1.6E-05		<6.0E-03	
63-NI					<1.0E-03		1.24E-06	6.01E-07	5.20E-04	2.40E-04
90-SR	4.50E-07	2.25E-08	1.40E-08	3.00E-09	8.80E-02	4.40E-03	6.60E-06	3.30E-07	7.90E-06	4.50E-06
95-ZR	8.80E-05	8.00E-06	<3.0E-06		6.40E-02	1.20E-02	2.62E-05	1.31E-06	4.90E-04	2.45E-05
94-NB							<6.0E-07		<3.2E-04	
99-TC							1.86E-06	2.00E-07	<1.7E-04	
106-RU	<1.0E-05		<2.0E-05		4.40E-02	1.80E-02	<3.5E-06		<1.1E-04	
110M-AG	2.60E-05	8.00E-06	<6.0E-06		2.00E-03	2.00E-04	<7.9E-07		6.00E-05	4.00E-05
125-SB	<5.0E-05		<2.0E-05		5.80E-02	1.20E-02	9.10E-07	1.00E-07	2.10E-04	7.00E-05
129-I					1.25E-04	1.00E-05	<2.7E-07		<4.2E-04	
134-CS	1.68E-04	8.40E-06	4.62E-04	2.31E-05	6.60E+01	1.00E+01	<3.4E-07		2.90E-04	3.00E-05
135-CS										
137-CS	2.68E-04	1.34E-05	6.80E-04	3.40E-05	2.27E+02	1.14E+01	<3.6E-07		1.43E-03	7.15E-05
141-CE	<3.0E-06		<5.0E-06				2.20E-06	1.30E-06	<5.0E-05	
144-CE	<6.0E-06		<1.0E-05		2.62E-01	1.50E-02	3.80E-07	1.20E-07	1.24E-02	7.00E-04
152-EU										
154-EU										
155-EU										
235-U					<4.0E-07		<1.7E-08		<2.2E-05	
238-U					5.00E-07	2.00E-07	<3.7E-09		<3.9E-06	
238-PU	2.90E-08	2.00E-09	2.90E-09	1.45E-10	1.19E-04	5.95E-06	1.00E-09	2.00E-10	1.90E-05	2.00E-06
239-PU	2.20E-08	2.00E-09	1.23E-09	8.00E-11	1.40E-03	7.00E-05	6.00E-10	1.20E-10	1.35E-04	7.00E-05
241-PU							1.30E-07	5.00E-08	3.50E-03	6.00E-04
241-AM	1.66E-08	8.30E-10	1.17E-09	1.00E-10	2.00E-05	3.00E-06	<6.1E-07		2.70E-05	2.00E-06
242-CM	2.60E-08	1.30E-09	1.47E-08	7.35E-10	2.00E-05	4.00E-06	6.80E-10	2.90E-10	4.60E-07	2.90E-07
244-CM	2.50E-08	1.25E-09	3.60E-09	2.00E-10	1.38E-05	1.70E-06	4.00E-10	1.90E-10	5.00E-07	2.80E-07

# RADIOACTIVE WASTE SAMPLE LISTING

RAD DATABASE

PLANT NAME:	VERMONT YANKEE	VERMONT YANKEE	DCONEE	DCONEE
UNIT NUMBER:	0	0	1	1
PLANT TYPE:	BWR	BWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-NOV-72	01-NOV-72	01-DEC-74	01-DEC-70
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	EVAPORATOR BOTTOMS
SAMPLE SUB-TYPE:	SECONDARY	PRIMARY	SECONDARY	SOLID
SAMPLING DATE:	26-OCT-82	25-OCT-82	19-MAY-78	14-NOV-77
SAMPLE NUMBER:	9981	9982	7293	6848

Concentrations in microcuries/gram

A-94

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	1.38E-03	6.90E-05	<1.0E-02						5.60E-04	1.22E-04
14-C	2.58E-02	1.29E-03	4.00E-03	5.00E-04					2.90E-04	8.80E-05
54-MN	2.00E-02	1.00E-03	2.17E+01	1.09E+00	2.14E-05	1.80E-06	1.20E-01	6.00E-03	7.08E-03	9.40E-06
55-FE										
58-CO	7.50E-03	1.30E-03	1.69E+01	8.45E-01	1.42E-05	2.10E-06	4.80E-01	2.40E-02	2.98E-04	1.80E-05
60-CO	3.39E-01	1.70E-02	8.03E+01	4.01E+00	2.25E-05	1.13E-06	5.60E-01	3.00E-02	2.64E-04	1.32E-05
59-NI	6.30E-04	1.00E-04	2.10E-02	4.00E-03					<2.4E-03	
63-NI	3.44E-02	1.72E-03	3.54E-01	3.00E-02					<6.9E-04	
90-SR	2.94E-03	1.47E-04	6.37E-03	3.19E-04					5.45E-05	2.90E-06
95-ZR	<2.3E-03		1.90E+00	6.00E-01	<1.1E-06		1.90E-01	1.00E-02		
94-NB	<1.5E-05		<5.0E-04						<1.2E-04	
99-TC	1.30E-03	1.00E-04	<3.2E-03						<1.6E-05	
106-RU	<3.2E-03		<7.0E-01				1.30E-02	8.00E-03		
110M-AG	<5.5E-04		6.90E-01	2.00E-01	3.31E-06	1.60E-06	2.90E-02	9.00E-03		
125-SB	<3.6E-03		<4.7E-01							
129-I	2.40E-04	2.00E-05	1.60E-04	5.00E-05					2.90E-05	6.80E-06
134-CS	1.61E-01	8.05E-03	4.20E-01	1.80E-01	7.93E-05	4.00E-06	1.16E-01	6.00E-03	2.18E-03	1.10E-04
135-CS										
137-CS	9.68E-01	4.84E-02	6.30E-01	2.00E-01	1.63E-04	8.20E-06	1.40E-01	7.00E-03	4.26E-03	2.13E-04
141-CE	5.60E-04	1.20E-04	3.30E-02	1.65E-03	<1.5E-06		3.20E-02	1.00E-02	<1.4E-05	
144-CE	2.40E-04	1.20E-04	4.40E-03	8.00E-04			7.00E-02	1.40E-02	<5.2E-05	
152-EU										
154-EU										
155-EU										
235-U	<1.4E-06		<3.2E-05							
238-U	<3.1E-07		<6.7E-06							
238-PU	7.70E-06	3.85E-07	7.80E-05	1.00E-05	3.90E-06	4.00E-07	4.91E-04	8.90E-05	3.13E-06	1.80E-07
239-PU	4.40E-06	2.20E-07	4.80E-05	8.00E-06	2.40E-06	2.00E-07	5.58E-04	8.90E-05	<1.0E-06	
241-PU	5.90E-04	7.00E-05	1.12E-02	1.60E-03					<2.0E-04	
241-AM	3.80E-06	1.00E-06	3.50E-05	7.00E-06			7.36E-04	1.10E-04	1.74E-06	2.40E-07
242-CM	2.30E-06	6.00E-07	1.00E-04	1.00E-05			3.12E-03	6.70E-04	1.43E-06	3.10E-07
244-CM	1.70E-06	5.00E-07	1.50E-05	4.00E-06			2.68E-04	8.90E-05	4.03E-07	1.10E-07

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	OCONEE	YANKEE ROWE	GINNA	OCONEE	OCONEE
UNIT NUMBER:	1	0	0	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-JUL-73	01-JUN-61	01-MAR-70	01-JUL-73	01-JUL-73
SAMPLE TYPE:	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	FILTER SLUDGE	FILTER SLUDGE
SAMPLE SUB-TYPE:	SOLID	LIQUID	LIQUID	SECONDARY	SECONDARY
SAMPLING DATE:	15-DEC-77	23-JUN-76	14-OCT-76	20-DEC-77	16-MAY-78
SAMPLE NUMBER:	6958	T041	T078	6960	7288

Concentrations in microcuries/gram

A-95

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	9.00E-03	2.20E-03					4.30E-04	1.30E-04	<4.7E-04	
14-C	2.20E-02	6.00E-03					8.60E-05	4.30E-05	1.20E-03	1.20E-04
54-MN	2.40E-01	1.20E-02			<4.0E-05		8.90E-05	7.00E-06	6.59E-03	4.30E-03
55-FE										
58-CO	2.00E+00	1.00E-01	5.80E-04	3.00E-05	<1.4E-04		4.80E-05	9.00E-06	2.39E-04	6.00E-05
60-CO	7.70E-01	4.00E-02	1.18E-03	6.00E-05	1.80E-01	6.00E-02	1.00E-04	7.00E-06	2.55E-04	1.30E-05
59-NI	1.70E-01	3.00E-02					<1.3E-03		<1.4E-03	
63-NI	2.54E-01	1.30E-02					<3.2E-04		<1.3E-03	
90-SR	1.64E-03	1.00E-04					7.90E-05	2.40E-05	1.35E-04	6.75E-06
95-ZR	3.30E-02	1.20E-02			<2.9E-04		<5.8E-06		<1.3E-04	
94-NB	<7.0E-04						<3.1E-05		<3.8E-04	
99-TC	<8.0E-05						<2.6E-05		<6.2E-05	
106-RU										
110M-AG	1.51E-01	8.00E-03	7.40E-05	4.00E-06			1.88E-05	1.00E-06		
125-SB	4.80E-03	1.60E-03					5.05E-06	3.40E-06		
129-I	<1.1E-04						<1.2E-05		<3.6E-05	
134-CS	1.11E-01	6.00E-03			1.67E-01	8.35E-03	2.20E-04	1.10E-05	3.21E-03	3.40E-04
135-CS										
137-CS	<2.5E-03				3.56E-01	1.78E-02	4.20E-04	2.10E-05	6.17E-03	3.10E-04
141-CE	<4.6E-03		2.00E-02	4.00E-03	<1.7E-03		<1.0E-05		<5.4E-03	
144-CE			7.10E-05	3.00E-05					3.09E-04	2.00E-04
152-EU										
154-EU			3.00E-06	1.00E-06						
155-EU			7.90E-06	3.00E-06						
235-U			<2.0E-07		<7.0E-09					
238-U			<2.0E-07		<7.0E-09					
238-PU	5.70E-05	1.50E-05	1.20E-06	2.00E-07	7.00E-07	2.00E-07	5.20E-06	2.00E-06	1.75E-06	6.50E-07
239-PU	4.00E-05	1.00E-05	2.20E-07	3.00E-08	1.00E-06	2.00E-07	3.80E-06	1.50E-06	4.97E-07	7.90E-08
241-PU	<6.2E-03				1.50E-04	5.00E-05	<4.9E-03		<3.1E-04	
241-AM	6.70E-06	1.00E-06	4.30E-06	8.00E-07	2.60E-07	1.00E-07	6.40E-07	3.00E-07	1.26E-06	1.50E-07
242-CM	4.20E-05	8.00E-06	<6.0E-07		<2.0E-08		<7.0E-08		9.63E-07	1.90E-07
244-CM	2.70E-06	5.00E-07	<6.0E-07		3.60E-07	1.20E-07	1.40E-07	8.00E-08	4.30E-07	9.00E-08

# RADIOACTIVE WASTE SAMPLE LISTING

RAD DATABASE

PLANT NAME:	OCONEE	OCONEE	OCONEE	OCONEE	GINNA
UNIT NUMBER:	1	2	1	3	0
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-JUL-73	01-SEP-74	01-SEP-74	01-DEC-74	01-MAR-70
SAMPLE TYPE:	EVAPORATOR BOTTOMS	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	EVAPORATOR BOTTOMS
SAMPLE SUB-TYPE:	SOLID	SECONDARY	SECONDARY	SECONDARY	SOLID
SAMPLING DATE:	02-JUN-78	15-DEC-77	20-DEC-77	12-MAY-78	16-JAN-76
SAMPLE NUMBER:	7285	6957	6961	7290	6738

Concentrations in microcuries/gram

A-96

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<6. 1E-03		<2. 7E-04		<3. 4E-04		<1. 8E-04			
14-C	1. 23E+00	6. 20E-02	2. 18E-04	1. 30E-05	4. 70E-04	2. 40E-05	2. 80E-04	1. 40E-05		
54-MN	8. 99E-03	2. 30E-03	2. 00E-04	2. 70E-05	4. 50E-04	3. 00E-05	1. 42E-05	1. 40E-06	3. 90E-01	4. 10E-02
55-FE										
58-CO	1. 31E+00	6. 60E-02	1. 48E-03	7. 40E-05	2. 60E-03	1. 30E-04	5. 05E-06	1. 70E-06	<2. 7E+00	
60-CO	1. 01E-01	5. 10E-03	6. 11E-04	3. 10E-05	1. 10E-03	1. 00E-04	1. 26E-05	6. 30E-07	3. 67E+00	1. 84E-01
59-NI	<2. 3E-03		<6. 2E-05		<1. 0E-03		<5. 5E-05			
63-NI	5. 00E-02	7. 50E-03	2. 10E-04	7. 60E-05	4. 10E-04	1. 50E-04	<2. 2E-04			
90-SR	1. 04E-05	5. 90E-06	4. 70E-05	1. 40E-05	6. 67E-04	4. 70E-05	2. 10E-05	1. 60E-06		
95-ZR	3. 61E-02	1. 70E-02	<2. 2E-05		2. 30E-04	1. 10E-04	<7. 3E-07			
94-NB	<3. 5E-03		<3. 2E-05		<1. 1E-04		<1. 9E-05			
99-TC	<5. 7E-05		<1. 2E-05		<7. 2E-06		<3. 3E-05			
106-RU									2. 34E-01	4. 70E-02
110M-AG	9. 63E-03	6. 50E-04			1. 14E-04	3. 00E-05			2. 31E-01	6. 40E-02
125-SB										
129-I	<1. 4E-05		<8. 6E-06		<1. 7E-05		<2. 0E-05			
134-CS	5. 60E-02	2. 80E-03	1. 23E-02	6. 15E-04	2. 10E-02	1. 05E-03	3. 03E-05	1. 60E-06	3. 22E-01	1. 61E-02
135-CS										
137-CS	8. 81E-02	4. 40E-03	1. 98E-02	1. 00E-03	3. 40E-02	2. 00E-03	3. 97E-05	3. 00E-06	9. 71E-01	4. 90E-02
141-CE	<2. 0E-02		<1. 0E-04		<1. 0E-04		<1. 0E-06		<3. 3E-02	
144-CE			2. 86E-04	1. 80E-04					3. 70E-02	1. 70E-02
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	6. 91E-04	1. 70E-04	3. 50E-05	5. 00E-06	2. 10E-06	4. 00E-07	2. 13E-05	7. 10E-06	2. 70E-04	4. 00E-05
239-PU	1. 06E-03	2. 20E-04	1. 50E-05	5. 00E-06	1. 50E-06	4. 00E-07	1. 23E-05	5. 50E-06	2. 20E-04	4. 00E-05
241-PU	<1. 5E-03		<1. 6E-02		<3. 0E-03		<1. 3E-04			
241-AM	3. 01E-05	4. 50E-06	1. 10E-05	3. 00E-06	1. 80E-06	4. 00E-07	1. 18E-06	1. 20E-07	1. 10E-03	2. 00E-04
242-CM	8. 12E-05	9. 70E-06	1. 10E-05	3. 00E-06	6. 40E-07	3. 20E-07	6. 69E-07	9. 20E-08	1. 00E-02	2. 00E-03
244-CM	3. 67E-05	4. 80E-06	1. 30E-05	4. 00E-06	2. 40E-07	1. 20E-07			4. 10E-04	8. 00E-05

# RADIOACTIVE WASTE SAMPLE LISTING

## SAS DATABASE

PLANT NAME:	GINNA	CALVERT CLIFFS	GINNA
UNIT NUMBER:	0	1	0
PLANT TYPE:	PWR	PWR	PWR
PLANT LOCATION:	INLAND	SEACOAST	INLAND
START-UP DATE:	01-MAR-70	01-DEC-70	01-MAR-70
SAMPLE TYPE:	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS
SAMPLE SUB-TYPE:	SOLID	SOLID	SOLID
SAMPLING DATE:	01-NOV-77	02-MAR-78	14-OCT-76
SAMPLE NUMBER:	7148	7066	T077

Concentration in microcuries/gram

A-97

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H							1.82E-02	9.10E-04	<1.1E-03	
14-C							5.94E-03	4.20E-04	<3.2E-05	
54-MN	1.06E+00	9.00E-02	2.10E-02	1.05E-03	2.20E-03	9.00E-04	1.50E-02	1.00E-03	1.34E-02	7.00E-04
55-FE										
58-CD	2.43E+00	4.50E-01	1.05E-01	5.25E-03	6.20E-02	4.00E-03	5.90E-03	3.00E-04	1.02E-01	5.10E-03
60-CD	2.51E+01	1.25E+00	1.72E-01	9.00E-03	1.00E-03	1.00E-04	2.90E-01	1.45E-02	1.05E-01	5.25E-03
59-NI							3.60E-03	2.30E-03	5.40E-03	2.59E-03
63-NI							6.01E-02	3.01E-03	1.51E-02	1.06E-03
90-SR	5.12E-05	2.56E-06					1.09E-03	5.50E-05	1.68E-04	7.73E-05
95-ZR	<3.7E-01		1.68E-01	8.40E-03	2.50E-02	5.00E-03	5.10E-03	9.00E-04	1.93E-03	7.30E-04
94-NB							<6.6E-04		<3.0E-04	
99-TC							<3.1E-05			
106-RU	1.07E+00	1.40E-01	4.40E-02	2.20E-03	3.10E-03	1.80E-03	7.20E-03	7.00E-04		
110M-AG	9.44E-01	1.50E-01	6.50E-02	3.25E-03			4.50E-03	6.00E-04		
125-SB	1.48E-01	3.60E-02	1.50E-03	8.00E-04						
129-I							<1.4E-05		<3.5E-05	
134-CS	2.50E-01	1.25E-02	1.69E-02	8.45E-04	<4.0E-04		1.53E-01	8.00E-03	<8.6E-05	
135-CS										
137-CS	1.22E+00	6.10E-02	<9.0E-04		<5.0E-04		3.40E-01	2.00E-02	3.96E-04	1.80E-04
141-CE	<1.4E+00		7.80E-03	1.70E-03	<3.0E-03		<1.6E-04		<8.1E-05	
144-CE	1.56E+00	7.80E-02	1.29E-01	1.10E-02			1.60E-03	3.00E-04		
152-EU										
154-EU							4.60E-05	2.00E-05		
155-EU							4.90E-05	2.00E-05		
235-U					<2.0E-04		<5.0E-08			
238-U					<2.0E-04		<5.0E-08			
238-PU	1.80E-03	1.00E-04	1.62E-03	9.00E-05	<3.0E-04		1.80E-04	2.00E-05	8.10E-06	6.00E-07
239-PU	3.10E-03	2.00E-04	2.32E-03	1.50E-04	<3.0E-04		9.20E-05	1.50E-05	1.33E-06	2.40E-07
241-PU							<1.0E+00		<9.4E-04	
241-AM			1.22E-03	1.00E-04	<4.0E-04		6.80E-05	1.20E-05	9.90E-06	2.30E-06
242-CM			1.62E-02	8.10E-04	<4.0E-04		2.00E-04	3.00E-05	6.30E-05	3.40E-05
244-CM			1.40E-03	2.00E-04	<4.0E-04		3.10E-05	5.00E-06	3.40E-06	1.50E-06

# RADIOACTIVE WASTE SAMPLE LISTING

S A I   D A T A B A S E

PLANT NAME:	ZION	YANKEE ROWE	YANKEE ROWE	YANKEE ROWE	ZION
UNIT NUMBER:	2	0	0	0	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-73	01-JUN-61	01-JUN-61	01-JUN-61	01-JUN-73
SAMPLE TYPE:	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS
SAMPLE SUB-TYPE:	SOLID	SOLID	SOLID	SOLID	SOLID
SAMPLING DATE:	01-APR-78	13-MAY-77	23-JUN-76	22-DEC-77	13-APR-78
SAMPLE NUMBER:	7149	T095	T040	6852	7162

Concentrations in microcuries/gram

A-98

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<3.2E-04		1.10E-03	6.30E-04	3.80E-02	1.90E-03	1.27E-02	6.35E-04		
14-C	1.38E-02	6.90E-04	2.27E-03	1.14E-04	<4.5E-03		3.96E-04	1.98E-05		
54-MN	4.69E-01	2.35E-02	3.70E-01	2.00E-02	3.80E-03	2.00E-04	1.84E-03	9.20E-05	3.53E+00	1.80E-01
55-FE										
58-CD	5.03E+00	2.52E-01	9.10E-01	5.00E-02	1.22E-03	8.00E-05	2.10E-04	3.00E-05	6.44E+00	3.22E-01
60-CD	3.87E+00	1.93E-01	1.08E+00	5.40E-02	3.50E-03	2.00E-03	2.70E-03	1.35E-04	2.60E+01	1.30E+00
59-NI	<1.9E-02		<4.9E-04		<2.8E-03		<3.1E-04			
63-NI	3.63E-01	1.82E-02	1.58E-02	7.90E-04	3.20E-03	3.00E-04	1.60E-03	1.60E-04		
90-SR	2.35E-03	1.17E-04	<3.0E-05		3.10E-05	1.30E-05	3.40E-05	1.40E-05	8.37E-03	6.20E-04
95-ZR			1.30E-01	2.00E-02	2.50E-04	6.00E-05	<2.3E-05		2.92E-01	1.20E-01
94-NB	<7.0E-04		<2.4E-04		<2.4E-04		<1.0E-04			
99-TC	<1.8E-04		<6.8E-04		9.40E-03	3.50E-03	<1.3E-04			
106-RU										
110M-AG			1.90E-02	5.00E-03	7.50E-04	5.00E-05	2.60E-04	4.00E-05	1.35E-01	6.75E-03
125-SB	1.55E-02	7.80E-03			<1.1E-04		2.90E-04	7.00E-05	7.79E-02	2.70E-02
129-I	<4.2E-04		<3.9E-05		<1.8E-04		<1.8E-05			
134-CS	1.53E-01	1.50E-02	2.00E-02	1.00E-03	6.00E-04	1.80E-04	3.80E-05	2.00E-06	3.17E+00	1.60E-01
135-CS										
137-CS	2.00E-01	1.30E-02	1.74E-01	9.00E-03			5.50E-03	3.00E-04	3.28E+00	1.64E-01
141-CE	<9.3E-03		<6.9E-03				<1.9E-05		<3.6E-02	
144-CE	8.46E-02	4.10E-02	4.50E-02	1.00E-02	1.70E-03	1.00E-03			<1.8E-01	
152-EU										
154-EU										
155-EU					5.80E-05	2.00E-05				
235-U			<6.0E-07		<1.0E-06					
238-U			<6.0E-07		<1.0E-06					
238-PU	1.40E-04	1.00E-05	1.40E-05	2.00E-06	8.80E-05	1.40E-05	1.80E-06	2.00E-07	5.70E-04	3.00E-05
239-PU	2.20E-04	2.00E-05	3.00E-06	1.50E-07	2.20E-05	3.00E-06	7.00E-07	7.00E-08	7.80E-04	4.00E-05
241-PU	4.50E-03	1.70E-03	<1.1E-03		<2.1E-03		<6.2E-04			
241-AM	1.90E-05	3.00E-06	1.80E-06	4.00E-07	4.70E-05	1.00E-05	2.70E-07	1.00E-07	9.50E-04	3.00E-04
242-CM	3.10E-04	3.00E-05	1.40E-05	3.00E-06	3.70E-06	1.00E-06	4.40E-07	1.50E-07	5.90E-04	2.00E-04
244-CM	1.20E-05	2.00E-06	2.60E-06	4.00E-07	4.30E-05	1.00E-05	<1.3E-08		2.10E-04	1.00E-04



# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	ZION	DCONEE	DCONEE	DCONEE	DCONEE
UNIT NUMBER:	2	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-73	01-JUL-73	01-JUL-73	01-JUL-73	01-JUL-73
SAMPLE TYPE:	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS
SAMPLE SUB-TYPE:	SOLID	SOLID	SOLID	SOLID	SOLID
SAMPLING DATE:	08-APR-78	04-JUL-78	28-NOV-78	19-FEB-79	17-APR-79
SAMPLE NUMBER:	7163	7604	7689	8014	7921

Concentrations in microcuries/gram

A-99

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H					1.85E-03	7.00E-04	9.80E-03	1.00E-03		
14-C					1.19E-03	7.14E-05	7.30E-04	1.30E-04		
54-MN	7.47E-02	3.74E-03	1.27E-01	7.00E-03	1.09E-02	1.20E-03	7.10E-03	7.40E-04	2.26E+00	1.50E-01
55-FE										
58-CO	3.05E-01	1.53E-02	3.97E+00	2.00E-01	4.44E-01	2.22E-02	1.05E-01	5.25E-03	8.96E+00	4.50E-01
60-CO	5.15E-01	2.60E-02	1.38E+00	7.00E-02	9.71E-02	4.85E-03	4.37E-02	2.20E-03		
59-NI					<2.2E-03		<1.4E-03			
63-NI					3.13E-02	1.57E-03	7.10E-03	8.00E-04		
90-SR	3.96E-03	3.50E-04			5.30E-04	1.00E-04	3.30E-04	1.10E-04		
93-ZR	7.58E-03	5.30E-03	<1.8E-02		8.01E-03	4.61E-03	<3.5E-03		1.53E-01	4.70E-02
94-NB					<4.9E-04		<5.1E-04			
99-TC					<4.4E-05		<1.0E-04			
106-RU									2.59E-02	1.26E-02
110M-AG	7.61E-03	2.10E-03	1.04E-01	1.00E-02	1.84E-02	2.70E-03	6.06E-03	8.70E-04	2.10E-01	4.60E-02
125-SB	6.16E-04	2.50E-04							5.15E-02	1.27E-02
129-I					<5.3E-05		<4.1E-05			
134-CS	2.96E-01	1.50E-02	1.45E-01	7.20E-03	4.28E-02	2.14E-03	2.28E-02	1.14E-03	4.99E-02	4.20E-03
135-CS										
137-CS	3.03E-01	1.52E-02	9.80E-02	6.60E-03	4.00E-02	2.20E-03	3.71E-02	1.86E-03	<3.3E-03	
141-CE	<1.7E-03		<8.4E-03		<4.3E-04		<2.8E-02		<7.9E-02	
144-CE									7.43E-04	2.57E-02
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	5.70E-04	2.00E-04			1.64E-04	1.80E-05	7.16E-06	5.00E-07	6.25E-04	3.13E-05
239-PU	5.20E-04	2.00E-04			4.80E-05	9.10E-06	7.97E-06	5.60E-07	7.21E-04	3.61E-05
241-PU					<2.9E-04		<4.0E-04			
241-AM	2.70E-04	6.00E-05	2.79E-04	4.60E-05	1.05E-05	9.00E-07	4.50E-06	3.70E-07	2.02E-04	2.00E-05
242-CM	5.80E-04	1.00E-04	2.35E-04	5.50E-05	2.92E-05	2.40E-06	4.19E-05	2.10E-06	2.11E-03	1.06E-04
244-CM	6.10E-05	3.00E-05	<4.0E-05		9.40E-06	8.60E-07	4.69E-06	2.80E-07	1.99E-04	2.00E-05

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	OCONEE	GINNA	YANKEE ROWE	YANKEE ROWE	YANKEE ROWE
UNIT NUMBER:	1	0	0	0	0
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-JUL-73	01-MAR-70	01-JUN-61	01-JUN-61	01-JUN-61
SAMPLE TYPE:	EVAPORATOR BOTTOMS	FILTER SLUDGE	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS
SAMPLE SUB-TYPE:	SOLID	SECONDARY	SOLID	SOLID	SOLID
SAMPLING DATE:	14-MAY-79	04-APR-78	16-MAY-78	08-NOV-78	11-APR-79
SAMPLE NUMBER:	7919	7399	7188	7606	8021

Concentrations in microcuries/gram

A-100

	<u>Value</u>	<u>Unc.</u>		<u>Value</u>	<u>Unc.</u>		<u>Value</u>	<u>Unc.</u>		<u>Value</u>	<u>Unc.</u>
3-H			<1. 2E-04			4. 40E-02	2. 20E-03			1. 50E-02	9. 00E-04
14-C			<1. 3E-04			<1. 5E-03				1. 06E-03	7. 42E-05
54-MN	3. 09E-01	1. 54E-02	1. 21E-04	4. 30E-05		2. 79E-03	1. 39E-04	4. 22E+00	2. 11E-01	5. 97E-03	3. 00E-04
55-FE											
58-CO	2. 20E+00	1. 10E-01	2. 40E-04	1. 20E-04		1. 26E-04	1. 40E-05	7. 66E-01	3. 83E-02	<2. 7E-04	
60-CO	1. 10E+00	5. 50E-02	6. 64E-04	1. 44E-04		1. 98E-03	9. 90E-05	9. 68E-01	4. 84E-02	6. 61E-03	3. 31E-04
59-NI			<9. 0E-03			<1. 8E-03				<1. 2E-03	
63-NI			9. 48E-03	8. 53E-04		8. 70E-03	6. 00E-04			<2. 4E-03	
90-SR			<4. 2E-05			7. 90E-04	1. 30E-04	3. 62E-04	1. 90E-05	1. 36E-04	8. 84E-05
95-ZR	<2. 8E-02		<1. 2E-04			6. 28E-05	3. 32E-05	8. 82E-02	1. 50E-02	<4. 3E-04	
94-NB			<2. 8E-04			<6. 3E-05				<5. 2E-04	
99-TC			<6. 1E-05			<2. 3E-04					
106-RU	5. 13E-02	1. 94E-02									
110M-AG	2. 48E-01	2. 50E-02	9. 36E-05	6. 08E-05				4. 26E-01	7. 00E-02	1. 00E-03	2. 70E-04
125-SB	1. 01E-02	5. 50E-03									
129-I			<4. 9E-05			<7. 0E-05				<3. 9E-05	
134-CS	5. 65E-01	2. 82E-02	1. 45E-02	7. 25E-04		5. 20E-04	2. 60E-05	2. 86E+00	1. 43E-01	3. 84E-03	4. 00E-04
135-CS											
137-CS	6. 59E-01	3. 30E-02	2. 87E-02	1. 43E-03		6. 37E-04	3. 20E-05	2. 34E+00	1. 27E-01	4. 85E-03	2. 42E-04
141-CE	<8. 0E-02		<5. 1E-04			<9. 2E-06		<1. 3E-02		<1. 3E-03	
144-CE	7. 94E-02	4. 38E-02				9. 30E-04	6. 20E-05	2. 08E-01	1. 50E-02		
152-EU											
154-EU											
155-EU											
235-U											
238-U											
238-PU	9. 77E-04	9. 00E-05	1. 83E-04	1. 80E-05		3. 27E-05	1. 80E-06	4. 18E-05	3. 10E-06	4. 24E-06	2. 50E-07
239-PU	9. 70E-04	8. 90E-05	6. 87E-05	4. 90E-06		3. 45E-05	1. 80E-06	1. 00E-05	1. 00E-06	2. 47E-06	1. 60E-07
241-PU			<3. 8E-03			1. 99E-03	5. 90E-04			<6. 0E-05	
241-AM	3. 80E-04	7. 60E-05	7. 91E-04	4. 00E-05		9. 15E-06	4. 60E-07	1. 61E-04	2. 90E-05	1. 20E-06	8. 00E-08
242-CM	1. 86E-03	1. 30E-04	1. 41E-03	7. 05E-05		1. 46E-05	7. 30E-07	2. 98E-05	1. 7E-05	8. 00E-06	4. 00E-07
244-CM	2. 73E-04	3. 30E-05	7. 99E-05	9. 30E-06		5. 37E-06	2. 70E-07	<5. 5E-06		1. 33E-06	8. 00E-08

# RADIOACTIVE WASTE SAMPLE LISTING

## S A I D A T A B A S E

PLANT NAME:	1	CONNECTICUT YANKEE	MAINE YANKEE
UNIT NUMBER:	1	0	0
PLANT TYPE:	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	SEACAST
START-UP DATE:	01-DEC-70	01-DEC-70	01-DEC-72
SAMPLE TYPE:	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS
SAMPLE SUB-TYPE:	SOLID	SOLID	SOLID
SAMPLING DATE:	10-JUL-78	12-SEP-78	18-JUL-78
SAMPLE NUMBER:	7451	7595	7445

Concentrations in microcuries/gram

A-101

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H					9.26E-03	5.30E-04	<3.0E-04		4.75E-03	2.38E-04
14-C					5.30E-04	1.80E-04	2.60E-03	1.30E-04	1.64E-04	8.20E-06
54-MN	3.06E+00	1.53E-01	1.35E+00	7.00E-02	4.93E-02	3.30E-03	3.20E-01	5.00E-02	4.28E-05	3.00E-06
55-FE										
58-CD	2.81E+01	1.40E+00	9.69E+00	4.84E-01	6.11E-01	3.05E-02	<1.3E-01		1.69E-04	7.05E-06
60-CD	2.34E+01	1.20E+00	1.07E+01	5.35E-01	2.37E-01	1.50E-02	1.23E+01	6.15E-01	9.77E-05	6.19E-06
59-NI					1.25E-02	7.84E-03	3.14E-01	1.57E-02	<2.0E-07	
63-NI					2.82E-01	1.41E-02	1.96E+01	1.10E+00	2.72E-05	2.05E-06
90-SR					2.92E-03	1.50E-04	1.75E-02	8.75E-04	<4.8E-09	
95-ZR	5.26E-01	1.51E-01	<1.5E-01		<4.0E-03		<2.0E-02		8.84E-06	4.42E-07
94-NB					<7.7E-04		<2.0E-04		<1.4E-07	
99-TC					<1.9E-03		<1.5E-04		<6.0E-09	
106-RU	9.61E-02	2.31E-02	1.65E-01	8.40E-02			<1.0E-01		<4.0E-07	
110M-AG	3.64E-01	8.70E-02	1.06E+00	2.40E-01			<7.0E-02		<8.0E-07	
125-SB	2.14E-01	2.20E-02	9.10E-02	1.80E-02			<9.0E-01		<1.0E-06	
129-I					<1.5E-05		<8.0E-06		<1.0E-09	
134-CS	2.90E-01	0.30E-02	4.39E-01	4.00E-02	4.13E+00	2.10E-01	<2.0E-01		4.40E-05	1.00E-05
135-CS										
137-CS	<1.4E-02		<3.1E-02		4.07E+00	2.04E-01	2.20E+00	5.00E-01	5.89E-04	2.95E-05
141-CE	<2.0E-02		<2.8E-01		<8.6E-03		<1.0E-04		1.10E-07	1.00E-08
144-CE	1.30E-01	8.20E-02	2.91E-01	1.44E-01			2.35E-02	1.17E-03	2.50E-07	2.00E-08
152-EU										
154-EU							5.30E-04	6.00E-05		
155-EU							5.50E-04	1.50E-04	<4.0E-08	
235-U							<1.0E-06		<1.0E-10	
238-U							<5.4E-07		<1.3E-10	
238-PU	1.03E-02	5.15E-04	5.15E-03	2.60E-04	1.90E-04	1.10E-05	2.30E-04	1.15E-05	4.26E-10	3.40E-11
239-PU	1.30E-02	6.50E-04	5.63E-03	2.81E-04	7.40E-05	4.40E-06	4.90E-04	2.45E-05	9.10E-11	1.50E-11
241-PU					1.19E-03	2.02E-04	3.67E-02	1.84E-03	1.20E-07	2.00E-08
241-AM	2.70E-03	1.35E-04	3.29E-03	2.30E-04	5.37E-05	2.70E-06	3.90E-04	6.00E-05	3.10E-10	6.00E-11
242-CM	5.38E-03	2.70E-04	1.81E-02	9.05E-04	1.24E-04	6.20E-06	3.20E-05	5.00E-06	1.23E-08	6.15E-10
244-CM	4.32E-03	2.20E-04	3.14E-03	2.50E-04	2.42E-04	1.21E-05	6.00E-05	9.00E-06	9.00E-10	1.00E-10

RADIOACTIVE WASTE SAMPLE LISTING  
SRI DATABASE

PLANT NAME:	MAINE YANKEE	MAINE YANKEE	ZION	ZION	1
UNIT NUMBER:	0	0	1	2	PWR
PLANT TYPE:	PWR	PWR	PWR	PWR	INLAND
PLANT LOCATION:	SEACOAST	SEACOAST	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-72	01-DEC-72	01-JUN-73	01-DEC-73	01-DEC-70
SAMPLE TYPE:	EVAPORATOR BOTTOMS	SMEAR	RESIN	RESIN	EVAPORATOR BOTTOMS
SAMPLE SUB-TYPE:	SOLID	PRIMARY	PRIMARY	PRIMARY	SOLID
SAMPLING DATE:	20-DEC-82	19-JAN-83	07-JAN-78	09-JAN-78	02-DEC-77
SAMPLE NUMBER:	10010	10011	7153	7154	6841

Concentrations in microcuries/gram

A-102

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	9.80E-05	4.90E-06	<7.0E-04		<4.3E-03		7.90E-04	1.70E-04		
14-C	1.31E-04	6.55E-06	4.00E-04	5.00E-05	3.00E-01	1.20E-01	2.00E-03	1.00E-04		
54-MN	7.90E-03	3.95E-04	6.50E-03	7.00E-04	4.36E+00	2.18E-01	1.89E-03	1.30E-04	1.60E-01	1.00E-02
55-FE										
58-CO	8.86E-02	4.43E-03	2.33E-02	1.17E-03	5.85E+00	6.20E-01	1.18E-02	5.90E-04	4.30E-01	2.15E-02
60-CO	6.50E-02	3.25E-03	1.82E-01	9.10E-03	7.34E+01	3.70E+00	1.57E-02	7.85E-04	7.70E-01	4.00E-02
59-NI	7.00E-04	1.00E-04	8.00E-03	1.00E-03	4.10E-02	1.20E-02	<5.1E-04			
63-NI	4.12E-02	2.06E-03	3.31E-01	1.66E-02	4.42E+00	2.21E-01	5.16E-03	2.58E-04		
90-SR	8.33E-05	4.17E-06	<2.7E-05		2.95E-01	1.48E-02	1.80E-05	6.30E-06	6.50E-03	5.00E-04
95-ZR	1.30E-03	5.00E-04	<2.0E-04		<4.9E-01		<5.5E-04		2.70E-01	2.00E-02
94-NB	<4.0E-06		<1.0E-04		<8.1E-03		<9.1E-05			
99-TC	<1.0E-06		<1.0E-05		<2.0E-04		<1.6E-04			
106-RU	<7.0E-04		<1.0E-03						1.60E-02	3.00E-03
110M-AG	<1.0E-04		1.01E-02	5.05E-04			5.04E-04	1.60E-04	1.50E-02	3.00E-03
125-SB	1.16E-02	9.00E-04	5.00E-03	1.00E-03	2.30E-01	1.10E-01	1.36E-04	9.50E-05	6.00E-03	2.90E-03
129-I	<5.0E-08		<1.0E-04		<1.5E-03		<2.3E-05			
134-CS	1.30E-03	2.00E-04	1.50E-03	1.00E-04	1.26E+01	6.30E-01	1.81E-02	9.05E-04	3.10E-02	2.00E-03
135-CS										
137-CS	9.90E-03	4.95E-04	1.10E-02	1.00E-03	2.85E+01	1.42E+00	1.92E-02	9.60E-04	3.00E-02	2.00E-03
141-CE	9.50E-06	7.00E-07	<4.0E-05		<9.8E-01		<4.2E-04		4.10E-03	4.00E-04
144-CE	7.00E-05	1.00E-05	5.00E-04	3.00E-04			9.47E-04	4.70E-04	1.78E-02	2.00E-03
152-EU										
154-EU										
155-EU	<1.0E-05		<9.0E-04							
235-U	<6.0E-08		<2.0E-05							
238-U	<2.0E-08		<5.0E-06							
238-PU	3.50E-07	2.00E-08	1.00E-05	3.00E-06	6.20E-05	4.00E-06	1.60E-05	2.00E-06	2.80E-04	2.00E-05
239-PU	4.30E-07	2.15E-08	7.00E-06	1.00E-06	2.30E-05	2.00E-06	1.20E-05	2.00E-06	4.20E-04	4.00E-05
241-PU	2.70E-05	3.00E-06	6.00E-04	4.00E-04	1.20E-04	4.00E-05	<3.3E-03			
241-AM	2.10E-07	1.05E-08	3.00E-06	1.00E-06	1.80E-05	8.00E-06	1.60E-06	3.00E-07	1.20E-04	2.00E-05
242-CM	2.05E-06	1.03E-07	5.00E-06	1.00E-06	2.60E-05	1.00E-05	<1.0E-06		3.60E-03	2.00E-04
244-CM	2.50E-07	1.25E-08	4.00E-06	1.00E-06	2.80E-06	1.80E-06	<1.0E-06		2.20E-04	3.00E-05

RADIOACTIVE WASTE SAMPLE LISTING  
SAI DATABASE

PLANT NAME:	1	YANKEE ROWE	YANKEE ROWE	GINNA	OCONEE
UNIT NUMBER:	1	0	0	0	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-70	01-JUN-61	01-JUN-61	01-MAR-70	01-JUL-73
SAMPLE TYPE:	EVAPORATOR BOTTOMS	FILTER CARTRIDGE	FILTER CARTRIDGE	FILTER CARTRIDGE	RESIN
SAMPLE SUB-TYPE:	SOLID	PRIMARY	PRIMARY	FUEL POOL	PRIMARY
SAMPLING DATE:	02-MAR-78	23-JUN-76	01-DEC-77	29-JAN-77	21-DEC-77
SAMPLE NUMBER:	7077	T042	685B	T079	6959

Concentrations in microcuries/gram

A-103

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	1.34E-01	7.00E-03	5.10E-01	3.00E-01	4.20E+00	2.10E-01	7.80E+00	4.00E-01	9.70E-01	5.00E-02
55-FE										
56-CO	5.80E-01	3.00E-02	2.40E-01	1.20E-02	6.30E+00	3.15E-01	4.90E+00	2.45E-01	7.30E-01	1.00E-01
60-CO	1.17E+00	6.00E-02	1.22E+00	6.10E-02	1.83E+00	9.00E-01	1.19E+02	6.00E+00	3.70E+00	7.00E-01
59-NI										
63-NI										
90-SR	7.81E-02	3.90E-03								
95-ZR	9.43E-01	4.72E-02	2.20E-02	4.00E-03	4.20E+00	2.10E-01	7.60E-01	2.30E-01	<7.6E-02	
94-NB										
99-TC										
106-RU	3.10E-01	1.80E-02			1.70E-01	6.00E-02	2.20E+00	2.00E-01		
110M-AG	2.46E-01	1.80E-02	3.60E-01	2.00E-02	2.40E-01	1.30E-01	9.10E-01	1.90E-01		
125-SB	1.46E-02	1.00E-03	2.20E-03	1.40E-03	6.20E-02	3.10E-03	3.20E-01	1.50E-01		
129-I										
134-CS	4.80E-02	5.00E-03	1.15E-02	2.50E-03	<1.4E-02		3.50E-01	2.10E-01	4.42E+01	2.70E+00
135-CS										
137-CS	<1.8E-03				<1.4E-02		<5.0E-02		7.90E+01	4.00E+00
141-CE	5.40E-03	9.00E-04			7.90E-01	2.70E-01	<5.0E-02		<1.1E-01	
144-CE	1.05E-01	1.10E-02	1.40E-02	6.00E-03	2.50E+00	1.25E-01	5.30E+00	3.00E-01		
152-EU							8.90E-03	7.00E-04		
154-EU			3.70E-04	2.00E-04			7.90E-02	3.00E-02		
155-EU			3.20E-04	1.00E-04			8.40E-02	3.00E-02		
235-U			<2.0E-06				1.00E-05	5.00E-06		
238-U			<2.0E-06				1.00E-05	5.00E-06		
238-PU	1.08E-03	8.00E-05	9.50E-05	1.30E-05	8.20E-04	8.00E-05	4.40E-02	6.00E-03	1.30E-04	2.00E-05
239-PU	1.64E-03	8.20E-05	1.00E-04	2.00E-05	<2.6E-03		6.30E-02	7.00E-03	7.80E-05	2.00E-05
241-PU							<1.0E+00			
241-AM	4.60E-04	3.00E-05	8.60E-06	9.00E-07	2.80E-04	2.00E-05	3.00E-02	4.00E-03	3.00E-05	1.00E-05
242-CM	9.70E-03	8.00E-04	3.30E-04	3.00E-05	3.00E-03	2.00E-04	1.80E-01	2.00E-02	5.20E-05	2.00E-05
244-CM	8.00E-04	6.00E-05	2.20E-05	4.00E-06	2.40E-04	2.00E-05	4.10E-02	5.00E-03	2.30E-05	1.00E-05

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	DCONEE	GINNA	GINNA	GINNA	GINNA
UNIT NUMBER:	1	0	0	0	0
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-JUL-73	01-MAR-70	01-MAR-70	01-MAR-70	01-MAR-70
SAMPLE TYPE:	RESIN	FILTER CARTRIDGE	FILTER CARTRIDGE	RESIN	RESIN
SAMPLE SUB-TYPE:	PRIMARY	RADWASTE	RADWASTE	PRIMARY	PRIMARY
SAMPLING DATE:	19-MAY-78	16-JAN-76	16-OCT-76	15-JAN-77	28-JUL-76
SAMPLE NUMBER:	7287	T034	T075	T080	T035

Concentrations in microcuries/gram

A-104

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H									<6.6E-04	
14-C									<3.9E-04	
54-MN	2.63E+01	1.32E+00	9.70E-02	5.00E-03	1.06E+00	5.50E-01	2.80E-03	8.00E-04	3.70E-01	2.00E-02
55-FE										
58-CO	9.79E+01	4.90E+00	2.20E+00	1.10E-01	3.70E+00	1.90E-01	2.40E-02	1.20E-03	2.60E-01	2.00E-02
60-CD	3.70E+00	7.00E-01	9.80E-01	4.40E-02	2.00E+01	1.20E+00	6.70E-01	3.35E-02	2.00E+00	1.00E-01
59-NI									3.80E-03	1.00E-03
63-NI									2.85E-02	1.43E-03
90-SR	9.14E-03	4.57E-04							3.10E-03	1.55E-04
93-ZR	<1.9E-01		2.30E-01	1.15E-02	4.70E-01	2.20E-01	<7.0E-04			
94-NB									<4.8E-04	
99-TC									5.00E-04	2.40E-04
106-RU			5.90E-02	3.00E-03	5.80E-01	1.40E-01				
110M-AG	4.18E-01	1.60E-01			1.30E+00	1.00E-01	1.10E-02	1.00E-03		
125-SB			3.40E-03	5.00E-04	1.90E-01	8.00E-02	3.70E-02	4.00E-03		
129-I									<3.3E-05	
134-CS	2.52E+01	1.30E+00	8.50E-02	4.25E-03	4.30E+00	2.50E-01	8.60E-01	4.30E-02	1.14E+00	6.00E-02
135-CS										
137-CS	2.75E+01	1.40E+00	2.20E-01	1.10E-02	1.23E+01	6.15E-01	2.40E+00	1.20E-01	1.45E+00	7.25E-02
141-CE	<3.0E-01				<1.5E-02		<5.0E-04			
144-CE			4.00E-02	2.00E-02	9.50E-02	1.20E-02	6.40E-03	2.00E-03	4.60E-03	2.00E-03
152-EU							9.60E-05	3.00E-05	4.10E-04	2.00E-04
154-EU			1.10E-03	5.00E-04	<1.4E-03		1.48E-04	3.00E-05	8.50E-04	3.00E-04
155-EU			<1.4E-03		<1.4E-03				5.90E-04	2.00E-04
235-U			<5.0E-06		<5.0E-06		<3.0E-07		<4.0E-05	
238-U			<5.0E-06		<5.0E-06		<3.0E-07		<4.0E-05	
238-PU	4.64E-05	4.10E-06	7.30E-04	1.50E-04	3.70E-03	5.00E-04	1.20E-03	2.00E-04	1.80E-05	3.00E-06
239-PU	8.27E-05	9.40E-06	1.40E-03	2.00E-04	4.50E-03	5.00E-04	4.70E-04	6.00E-05	6.60E-06	9.00E-07
241-PU					1.60E-02	6.00E-03	6.80E-03	3.00E-03	4.4E-04	
241-AM	5.46E-05	7.60E-06	2.80E-04	3.00E-05	2.90E-03	6.00E-04	4.00E-05	6.00E-06	1.60E-05	2.00E-06
242-CM	1.43E-04	1.70E-05	4.30E-03	2.15E-04	5.50E-03	1.00E-03	1.60E-04	2.00E-05	1.30E-06	6.00E-07
244-CM	1.09E-04	1.10E-05	2.40E-04	3.00E-05	1.50E-03	4.00E-04	3.90E-05	6.00E-06	1.00E-06	2.00E-07

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	GINNA	GINNA	GINNA	GINNA	2
UNIT NUMBER:	0	0	0	0	
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-MAR-70	01-MAR-70	01-MAR-70	01-MAR-70	01-OCT-72
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLE SUB-TYPE:	FUEL POOL	RADWASTE	SECONDARY	SECONDARY	PRIMARY
SAMPLING DATE:	03-NOV-77	10-FEB-78	10-FEB-78	24-JAN-78	02-MAR-78
SAMPLE NUMBER:	7158	7147	7157	7186	7065

Concentrations in microcuries/gram

A-105

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H			7.51E-03	3.80E-04			3.02E-03	8.70E-05	7.60E-04	4.30E-04
14-C			9.13E-03	4.60E-04			1.11E-03	5.60E-05	1.29E-02	6.45E-04
54-MN	8.43E-04	5.60E-04	4.26E-03	2.13E-04	5.23E-04	3.00E-05	5.09E-04	1.20E-04	<6.0E-07	
55-FE										
58-CO	3.39E-02	2.90E-03	1.96E-02	9.80E-04	2.20E-03	1.10E-04	1.17E-03	3.10E-04	5.36E-05	2.70E-06
60-CO	2.17E-01	1.10E-02	7.20E-02	3.60E-03	9.26E-03	4.63E-04	1.56E-02	7.80E-04	1.47E-06	2.00E-07
59-NI			<4.1E-04				<2.7E-04		<4.4E-03	
63-NI			1.87E-02	7.40E-04			7.52E-03	3.80E-04	2.59E-03	5.70E-04
90-SR	1.59E-05	1.00E-06	4.80E-05	6.70E-06			1.01E-04	5.05E-06	1.05E-03	1.37E-04
95-ZR	8.48E-03	5.20E-03	5.57E-03	3.00E-03	2.54E-04	1.20E-04	<3.0E-04		3.89E-06	2.70E-06
94-NB			<6.5E-05				<2.2E-05		<4.7E-04	
99-Tc			<1.3E-05				<2.7E-04		<5.7E-04	
106-RU			3.56E-03	1.90E-04	1.31E-04	4.90E-05				
110M-AG			1.26E-03	2.90E-04	8.16E-05	2.10E-05	3.29E-04	1.20E-04		
125-SB	2.75E-03	1.20E-03	4.10E-02	2.10E-03	5.46E-05	2.40E-05			<5.0E-06	
129-I			<9.1E-06				<1.1E-06		<1.5E-04	
134-CS			2.53E-03	1.30E-04	6.46E-03	3.23E-04	8.97E-02	4.50E-03	1.12E-03	5.60E-05
135-CS										
137-CS	3.96E-01	2.00E-02	3.19E-03	2.10E-04	1.81E-02	9.05E-04	4.34E-01	2.20E-02	2.20E-03	1.10E-04
141-CE	<1.9E-02		<3.6E-04		<1.1E-04		<2.1E-03		<2.6E-06	
144-CE			4.54E-03	6.20E-04	1.95E-04	1.20E-04	1.90E-03	1.20E-03		
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	3.20E-03	2.00E-04	6.60E-05	4.00E-06	1.65E-05	8.25E-07	7.80E-06	4.00E-07	<4.4E-10	
239-PU	2.10E-03	1.05E-04	7.20E-05	4.00E-06	1.10E-05	6.00E-07	1.24E-05	6.20E-07	<4.4E-10	
241-PU			3.04E-03	4.62E-04			3.80E-03	1.10E-03	<4.4E-07	
241-AM			1.50E-05	1.00E-06	1.10E-05	2.00E-06	1.34E-05	1.30E-06	9.60E-09	3.00E-09
242-CM			1.03E-04	5.15E-06	5.00E-05	1.00E-05	9.69E-06	1.70E-06	7.10E-09	3.00E-09
244-CM			1.50E-05	1.00E-06	8.50E-06	2.00E-06	4.60E-06	7.60E-07	2.40E-09	1.00E-09

RADIOACTIVE WASTE SAMPLE LISTING  
SAD DATABASE

PLANT NAME:			YANKEE ROWE	YANKEE ROWE	YANKEE ROWE
UNIT NUMBER:	1	2	0	0	0
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-70	01-OCT-72	01-JUN-61	01-JUN-61	01-JUN-61
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	PRIMARY	PRIMARY
SAMPLING DATE:	21-NOV-77	07-NOV-77	11-MAY-77	23-JUL-76	08-AUG-75
SAMPLE NUMBER:	6846	6844	T097	T043	6854

Concentrations in microcuries/gram

A-106

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H									1.10E-03	5.00E-04
14-C									5.11E-02	2.60E-03
54-MN	4.20E-06	4.00E-07	6.50E-01	3.25E-02	6.20E-05	3.10E-06			2.20E+01	1.10E+00
55-FE										
58-CO	2.10E-06	1.00E-06	2.20E+00	1.00E+00	1.15E-05	5.75E-07			8.10E+00	4.05E-01
60-CD	9.20E-06	2.00E-06	2.70E+00	1.35E-01	9.10E-06	4.55E-07			1.11E+01	5.55E-01
59-NI									5.60E-02	9.00E-03
63-NI									7.80E+00	4.00E-01
90-SR									4.00E-01	2.00E-02
95-ZR	1.10E-06	1.00E-07	2.30E-01	1.10E-01	<4.4E-08					
94-NB									<3.1E-04	
99-TC									<2.4E-04	
106-RU										
110M-AG			2.50E-02	6.00E-03					1.10E-01	2.00E-02
125-SB	3.20E-06	6.60E-07	1.18E+00	1.40E-01	<4.0E-07					
129-I									<6.8E-05	
134-CS	9.00E-05	4.50E-06			7.20E-06	4.00E-07			4.80E-01	3.00E-02
135-CS										
137-CS	1.10E-04	6.00E-06			1.83E-05	9.15E-07			6.70E-01	3.35E-02
141-CE	4.50E-06	9.00E-07			<6.8E-08					
144-CE	1.30E-05	4.00E-06	1.70E-02	5.00E-03					6.30E-01	2.60E-01
152-EU										
154-EU									6.60E-03	1.00E-03
155-EU									3.50E-03	6.00E-04
235-U					<4.0E-11				<3.0E-06	
238-U					<4.0E-11				<3.0E-06	
238-PU			1.30E-04	2.20E-05	5.20E-10	2.00E-10			5.20E-05	6.00E-06
239-PU			1.19E-04	2.20E-05	<2.4E-10				5.30E-05	5.00E-06
241-PU									6.70E-03	2.20E-03
241-AM			4.21E-05	8.60E-06	<4.0E-11				4.80E-05	6.00E-06
242-CM			9.18E-04	6.50E-05	3.10E-10	4.00E-11			6.40E-04	8.00E-05
244-CM			1.30E-04	2.20E-05	1.00E-10	2.00E-11			2.10E-05	3.00E-06



RADIOACTIVE WASTE SAMPLE LISTING  
SAJ DATABASE

PLANT NAME:	CONNECTICUT YANKEE	CONNECTICUT YANKEE	CONNECTICUT YANKEE	CONNECTICUT YANKEE	CONNECTICUT YANKEE
UNIT NUMBER:	0	0	0	0	0
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-JAN-68	01-JAN-68	01-JAN-68	01-JAN-68	01-JAN-68
SAMPLE TYPE:	RESIN	RESIN	RESIN	REACTOR COOLANT	RESIN
SAMPLE SUB-TYPE:	FUEL POOL	FUEL POOL	PRIMARY	SOLID	PRIMARY
SAMPLING DATE:	18-JUL-78	23-OCT-78	11-OCT-78	24-OCT-78	06-MAR-79
SAMPLE NUMBER:	7439	7591	7593	7592	8003

Concentrations in microcuries/gram

A-107

	<u>Value</u>	<u>Unc.</u>		<u>Value</u>	<u>Unc.</u>		<u>Value</u>	<u>Unc.</u>		<u>Value</u>	<u>Unc.</u>
3-H							<2.9E-03			7.34E-05	3.67E-06
14-C							5.90E-03	1.10E-03		3.14E-06	2.51E-07
54-MN	3.82E-06	1.91E-07	4.85E-03	1.73E-03	3.49E-01	1.74E-02	<3.1E-05			2.22E-02	1.50E-03
55-FE											
58-CD	9.91E-06	4.95E-07	2.75E-02	3.60E-03	2.93E+00	1.50E-01	<6.4E-05			2.07E-01	1.04E-02
60-CD	9.45E-05	4.73E-06	6.01E-02	9.50E-03	1.34E+00	7.00E-02	<1.2E-05			2.85E-01	1.43E-02
59-NI					2.10E-02	7.80E-03	<2.9E-06			<5.5E-04	
63-NI					4.93E-01	2.50E-02	9.79E-06	2.84E-06		1.05E-01	5.25E-03
90-SR	1.53E-08	8.00E-10			6.56E-04	3.30E-05				9.05E-03	4.52E-04
95-ZR	<9.9E-08		1.97E-02	9.90E-03	1.49E-02	7.80E-03	6.79E-04	2.37E-04		6.14E-01	5.10E-02
94-NB					<1.7E-03		<7.7E-07			<1.2E-04	
99-TC					<3.5E-04					<6.1E-05	
106-RU	1.35E-06	7.00E-08			2.68E-02	5.00E-03				2.77E-01	1.40E-02
110M-AG					1.00E-02	4.20E-03					
125-SB	<4.7E-08									6.71E-03	2.82E-03
129-I							<2.3E-05			<3.5E-05	
134-CS	3.53E-07	2.90E-08	2.87E+00	1.44E-01	1.18E+00	6.00E-02	1.27E-01	6.57E-03		7.90E-02	3.95E-03
135-CS											
137-CS	8.80E-07	7.90E-08	2.79E+00	1.40E-01	1.28E+00	6.40E-02	1.16E-01	5.77E-03		1.37E-01	7.00E-03
141-CE	<4.6E-08		<9.3E-03		<6.1E-03		<3.5E-04			2.49E-01	5.30E-02
144-CE	2.53E-06	2.10E-07	3.12E-02	1.80E-02	9.11E-02	1.13E-02				1.01E+00	5.05E-02
152-EU											
154-EU											
155-EU											
235-U											
238-U											
238-PU	6.88E-08	2.10E-08	1.92E-03	1.00E-04	2.07E-03	1.50E-04	3.34E-06	1.67E-07		2.41E-03	1.21E-04
239-PU	1.76E-08	8.00E-09	6.39E-04	3.20E-05	8.80E-04	8.80E-05	1.20E-06	6.02E-08		7.15E-04	3.60E-05
241-PU					<5.3E-01		<4.6E-05			1.40E-01	7.00E-03
241-AM			9.21E-04	1.57E-04	1.74E-03	2.70E-04	1.73E-06	2.07E-07		3.91E-04	1.95E-05
242-CM			3.79E-03	6.40E-04	4.45E-01	5.30E-02	2.14E-05	2.16E-06		2.88E-02	1.44E-03
244-CM			8.02E-04	1.44E-04	1.93E-02	2.30E-03	1.91E-06	2.24E-07		2.05E-03	1.03E-04

# RADIOACTIVE WASTE SAMPLE LISTING

NAI DATABASE

PLANT NAME:					
UNIT NUMBER:	1	1	1	2	2
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-70	01-DEC-70	01-DEC-70	01-OCT-72	01-OCT-72
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	PRIMARY	PRIMARY
SAMPLING DATE:	28-JUN-78	20-DEC-78	07-MAR-79	20-DEC-78	07-MAR-79
SAMPLE NUMBER:	7444	7697	8037	7696	8029

Concentrations in microcuries/gram

A-108

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	1.25E-02	1.01E-03	1.67E-03	8.34E-04						
14-C	1.05E-02	5.25E-04	1.28E-03	8.96E-05						
54-MN	1.29E-03	5.60E-04	<1.6E-04		6.57E-04	3.51E-04	1.34E-03	4.60E-04	<7.0E-04	
55-FE										
58-CO	6.75E-02	3.38E-03	1.99E-01	1.00E-02	3.01E-02	3.00E-03	2.64E-02	1.60E-03	<4.4E-03	
60-CO	5.54E-03	3.20E-04	3.57E-03	1.03E-03	1.49E-03	2.80E-04	1.94E-03	5.50E-04	<9.1E-04	
59-NI	<5.5E-03		<1.5E-03							
63-NI	4.04E-03	6.46E-04	7.52E-03	7.50E-04						
90-SR	4.65E-04	9.30E-05	1.08E-03	1.30E-04						
95-ZR	<9.0E-04		<4.9E-04		<2.2E-03		<1.1E-03		4.40E-02	2.97E-02
94-NB	<2.7E-04		<6.7E-04							
99-TC	<1.1E-04		<2.0E-04							
106-RU										
110M-AG	<1.8E-03		1.25E-03	3.80E-04						
125-SB	9.46E-03	2.32E-03	1.03E-02	1.40E-03						
129-I	<1.8E-04		<1.8E-04							
134-CS	6.44E-01	3.22E-02	1.81E-01	9.05E-03	2.01E-01	1.00E-02	4.75E-01	2.40E-02	1.16E+00	6.00E-02
135-CS										
137-CS	1.87E+00	9.35E-02	4.46E-01	2.23E-02	7.43E-01	3.71E-02	8.07E-01	4.04E-02	1.13E+00	6.00E-02
141-CE	<1.9E-03		<1.2E-03		<3.9E-02		<3.4E-03		<1.7E-01	
144-CE										
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	2.93E-06	6.30E-07	1.35E-05	2.40E-06	6.30E-04	3.15E-05	1.22E-03	6.10E-05	1.05E-03	9.00E-07
239-PU	9.99E-07	3.69E-07	6.72E-06	1.65E-06	7.48E-04	3.74E-05	1.84E-03	9.20E-05	3.31E-06	6.60E-07
241-PU	<1.3E-03		<4.5E-03							
241-AM	5.06E-06	3.50E-07	1.16E-04	7.00E-06	6.47E-06	9.20E-07	1.88E-03	3.90E-04	1.75E-06	3.10E-07
242-CM	3.07E-06	4.90E-07	1.50E-05	2.90E-06	4.41E-06	1.38E-06	2.05E-04	1.14E-04	7.38E-06	7.40E-07
244-CM	3.55E-06	2.90E-07	4.38E-06	1.14E-06	8.86E-07	3.41E-07	<8.0E-05		1.94E-06	2.30E-07

RADIOACTIVE WASTE SAMPLE LISTING  
(S A ) D A T A B A S E

PLANT NAME:	1	DCONEE	DCONEE	DCONEE	DCONEE
UNIT NUMBER:	1	1	2	2	2
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-70	01-JUL-73	01-SEP-74	01-SEP-74	01-SEP-74
SAMPLE TYPE:	RESIN	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE
SAMPLE SUB-TYPE:	PRIMARY	SECONDARY	SECONDARY	SECONDARY	SECONDARY
SAMPLING DATE:	12-APR-78	15-APR-79	15-JUL-78	22-DEC-78	14-DEC-78
SAMPLE NUMBER:	7447	7922	7602	7692	7693

Concentrations in microcuries/gram

A-109

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H			3.60E-04	1.20E-04	<3.5E-04		<3.6E-04			
14-C			8.00E-05	8.00E-06	3.96E-04	2.00E-05	3.17E-04	2.20E-05		
54-MN	7.94E+00	4.00E-01	1.02E-05	1.10E-06			9.05E-05	4.40E-05	<6.0E-06	
55-FE					2.08E-04	4.50E-05	<4.2E-05		6.06E-05	3.26E-05
58-CO	1.01E+01	5.05E-01	<5.8E-06		3.20E-05	5.30E-06	3.45E-04	5.20E-05	3.69E-05	1.46E-05
60-CO	1.96E+01	1.00E+00	1.25E-05	2.90E-06	<1.7E-04		<1.8E-03			
59-NI			<2.6E-04		2.92E-04	2.30E-05	<5.3E-04			
63-NI			<2.6E-04		7.20E-05	3.50E-05	1.30E-04	4.40E-05		
90-SR			<2.8E-05		<3.0E-05		<9.9E-05		<3.1E-05	
95-ZR	<1.6E-01		<1.0E-05		<5.5E-04		<1.3E-04			
94-NB			<4.6E-05		<7.3E-05		<2.5E-05			
99-TC			<2.9E-05							
106-RU										
110M-AG										
125-SB										
129-I			<5.0E-05		<1.7E-05		<1.8E-05			
134-CS	3.73E+01	1.90E+00	2.16E-04	1.10E-05	1.45E-03	9.00E-05	3.97E-02	2.00E-03	7.77E-03	3.90E-04
135-CS										
137-CS	4.25E+01	2.13E+00	5.82E-04	2.91E-05	2.95E-03	1.50E-04	7.73E-02	3.90E-03	1.54E-02	7.70E-04
141-CE	<6.8E+01		<7.7E-05		<1.3E-04		<3.6E-04		<1.0E-04	
144-CE										
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	8.68E-05	5.20E-06	2.70E-06	2.70E-07	6.83E-06	3.41E-06	1.31E-05	2.20E-06	9.67E-05	1.84E-06
239-PU	8.12E-05	4.90E-06	1.03E-06	1.50E-07	7.51E-06	3.75E-06	5.28E-06	1.38E-06	1.09E-05	8.00E-07
241-PU			<1.7E-05		<1.6E-03		<1.4E-03			
241-AM			1.04E-06	3.80E-07	2.44E-05	2.50E-06	4.84E-04	2.42E-05	2.01E-04	1.30E-05
242-CM			4.87E-06	1.51E-06	<3.1E-06		3.61E-04	1.80E-05	1.58E-05	7.10E-06
244-CM			8.78E-07	1.84E-07	1.53E-04	7.65E-06	2.45E-04	5.80E-05	8.92E-06	2.84E-06

# RADIOACTIVE WASTE SAMPLE LISTING

SAJ DATABASE

PLANT NAME:	OCONEE	OCONEE	OCONEE	OCONEE	OCONEE
UNIT NUMBER:	2	2	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-SEP-74	01-SEP-74	01-JUL-73	01-JUL-73	01-JUL-73
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	RESIN
SAMPLE SUB-TYPE:	SECONDARY	SECONDARY	SECONDARY	SECONDARY	PRIMARY
SAMPLING DATE:	10-DEC-78	27-FEB-79	06-JUL-78	19-OCT-78	28-NOV-78
SAMPLE NUMBER:	7685	8016	7598	7684	7691

Concentrations in microcuries/gram

A-110

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H							3.04E-04	1.34E-04	2.60E-04	9.60E-05
14-C							1.61E-04	8.05E-06	2.00E-04	1.40E-05
54-MN			<3.4E-06		6.12E-05	1.02E-05	1.08E-04	1.40E-05	1.95E-04	2.10E-05
55-FE										
58-CO	<2.6E-06		<1.5E-05		9.46E-04	5.60E-05	2.25E-04	4.10E-05	5.81E-04	5.10E-05
60-CO	1.86E-05	9.30E-07	5.53E-06	2.44E-06	3.78E-04	1.90E-05	1.96E-04	1.00E-05	4.81E-04	2.40E-05
59-NI							<1.6E-04		<1.3E-03	
63-NI							<1.6E-04		<3.0E-04	
90-SR							2.20E-05	5.30E-06	2.00E-04	3.20E-05
95-ZR	<3.6E-06		<3.9E-05		<2.5E-05		<3.6E-05		<2.5E-05	
94-NB							<3.8E-05		<4.9E-05	
99-TC							<1.9E-05		<5.7E-08	
106-RU										
110M-AG					1.58E-05	8.80E-06	2.61E-05	1.51E-05		
125-SB										
129-I							<2.4E-05		<8.2E-07	
134-CS	1.71E-05	2.30E-06	1.27E-03	6.35E-05	4.09E-04	2.04E-05	5.16E-03	2.60E-04	7.97E-04	5.40E-05
135-CS										
137-CS	3.39E-05	3.90E-06	3.06E-03	1.53E-04	8.81E-04	4.41E-05	1.12E-02	6.00E-04	1.83E-03	9.15E-05
141-CE	<6.4E-06		<4.2E-04		<9.0E-05		<2.1E-04		<6.0E-05	
144-CE									1.21E-03	7.10E-04
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	2.28E-06	4.10E-07	5.08E-06	2.90E-07	6.21E-04	4.30E-05	1.40E-05	2.90E-06	6.62E-06	1.72E-06
239-PU	1.14E-06	2.90E-07	2.05E-06	1.90E-07	5.28E-04	3.70E-05	8.25E-06	2.14E-06	1.74E-05	2.70E-06
241-PU							1.25E-04	6.20E-05	<8.8E-03	
241-AM			1.61E-06	1.50E-07	6.95E-04	4.90E-05	1.17E-05	3.50E-06	9.57E-06	2.49E-06
242-CM			1.42E-05	7.10E-07	1.67E-03	1.20E-04	<3.7E-06		<1.2E-06	
244-CM			1.72E-06	1.20E-07	5.91E-04	4.10E-05	<1.2E-06		<5.6E-07	

# RADIOACTIVE WASTE SAMPLE LISTING

S A I   D A T A B A S E

PLANT NAME:	OCONEE	OCONEE	OCONEE	OCONEE	OCONEE
UNIT NUMBER:	1	1	1	3	3
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-JUL-73	01-JUL-73	01-JUL-73	01-DEC-74	01-DEC-74
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE
SAMPLE SUB-TYPE:	SECONDARY	SECONDARY	SECONDARY	SECONDARY	SECONDARY
SAMPLING DATE:	05-FEB-79	19-FEB-79	11-APR-79	21-FEB-79	18-APR-79
SAMPLE NUMBER:	B015	B017	7920	B020	7918

Concentrations in microcuries/gram

A-111

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	1.30E-05	3.90E-06	5.62E-05	7.10E-06	3.61E-05	6.90E-06	3.86E-04	2.50E-05	7.33E-06	3.67E-06
55-FE										
58-CO	7.11E-05	2.08E-05	1.39E-04	3.70E-05	<1.4E-05		1.50E-04	7.30E-05		
60-CO	2.61E-05	2.40E-06	7.86E-05	3.93E-06	6.56E-05	7.40E-06	2.96E-04	1.50E-05	9.59E-06	1.15E-06
59-NI										
63-NI										
90-SR										
95-ZR	<1.8E-05		<2.9E-05		<2.1E-05		2.18E-04	1.43E-04	3.48E-05	1.97E-05
94-NB										
99-TC										
106-RU										
110M-AQ							7.43E-05	4.11E-05		
125-SB					1.29E-04	8.30E-05				
129-I										
134-CS	3.26E-04	1.63E-05	4.04E-04	2.02E-05	4.96E-04	2.50E-05	2.36E-04	1.20E-05	2.23E-05	1.40E-06
135-CS										
137-CS	8.30E-04	4.15E-05	1.05E-03	5.25E-05	1.37E-03	7.00E-05	2.56E-04	1.70E-05	5.40E-05	4.90E-06
141-CE	<2.1E-04		<2.0E-04		<1.5E-04		<4.7E-04		<3.7E-05	
144-CE							8.11E-05	4.16E-05		
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	1.04E-05	6.00E-07	1.60E-06	1.20E-07	2.14E-06	2.10E-07	1.65E-06	1.70E-07	5.33E-06	3.70E-07
239-PU	3.61E-06	3.70E-07	6.53E-07	7.50E-08	7.07E-07	1.10E-07	6.31E-07	1.07E-07	1.90E-06	2.10E-07
241-PU										
241-AM	4.74E-06	6.20E-07	5.65E-07	4.30E-08	3.19E-06	2.20E-07	1.18E-06	1.50E-07	1.57E-06	5.50E-07
242-CM	2.87E-05	2.80E-06	4.58E-06	2.29E-07	1.24E-05	6.20E-07	3.42E-06	4.40E-07	6.09E-06	9.10E-07
244-CM	2.84E-06	4.80E-07	4.46E-07	3.90E-08	2.96E-06	1.80E-07	1.22E-06	1.20E-07	1.80E-06	3.10E-07

# RADIOACTIVE WASTE SAMPLE LISTING

SAI DATABASE

PLANT NAME:	OCONEE	OCONEE	OCONEE
UNIT NUMBER:	3	.	1
PLANT TYPE:	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-74	01-JUL-73	01-JUL-73
SAMPLE TYPE:	FILTER SLUDGE	RESIN	RESIN
SAMPLE SUB-TYPE:	SECONDARY	PRIMARY	PRIMARY
SAMPLING DATE:	19-APR-79	14-JUL-78	02-DEC-79
SAMPLE NUMBER:	7923	7586	7676
			7583
			8030

Concentrations in microcuries/gram

A-112

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	5.16E-06	3.04E-06	5.93E-02	2.96E-03	4.81E-03	4.00E-04	3.12E-01	9.30E-02	1.26E+01	6.30E-01
55-FE										
58-CO	<4.1E-06		1.40E+00	7.00E-02	5.00E-01	2.50E-02	1.60E+01	8.00E-01	6.61E+01	3.31E+00
60-CD	5.99E-06	1.07E-06	4.90E-01	2.45E-02	3.39E-02	1.70E-03	2.79E+01	1.40E+00	1.37E+02	7.00E+00
59-NI										
63-NI										
90-SR			4.57E-04	2.30E-05						
95-ZR	<4.5E-06		1.82E-02	1.08E-02	3.02E-02	1.80E-03	<1.7E-01		<2.2E+00	
94-NB										
99-TC										
106-RU										
110M-AG			2.89E-02	6.10E-03	1.08E-02	1.60E-03				
125-SB			<2.5E-03		5.89E-04	3.40E-04			2.28E+00	7.10E-01
129-I										
134-CS	8.95E-06	1.64E-06	1.10E-02	4.10E-03	3.62E-03	1.81E-04	1.72E+00	1.30E-01	1.38E+01	7.00E-01
135-CS										
137-CS	2.32E-03	1.16E-04	<4.5E-04		<3.2E-04		2.54E+00	1.30E-01	3.14E+01	1.60E+00
141-CE			<7.6E-03		<1.0E-03		<2.3E-01		<1.5E+01	
144-CE	<3.2E-05		1.00E-02	3.30E-03	1.26E-02	1.90E-03				
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	3.88E-06	1.94E-07	2.62E-05	4.20E-06	5.64E-05	1.13E-05	3.22E-03	1.61E-04	1.65E-02	1.10E-03
239-PU	1.19E-06	1.10E-07	2.76E-05	4.40E-06	5.54E-05	1.16E-05	1.07E-03	5.35E-05	2.48E-02	1.60E-03
241-PU										
241-AM	1.55E-06	1.30E-07	1.42E-05	2.40E-06			2.91E-04	6.80E-05	7.55E-03	1.51E-03
242-CM	7.02E-06	4.30E-07	5.23E-05	9.20E-06			1.65E-03	1.80E-04	8.54E-03	1.71E-03
244-CM	1.37E-06	1.20E-07	4.90E-06	1.37E-06			1.75E-04	3.90E-05	3.54E-03	7.10E-04

# RADIOACTIVE WASTE SAMPLE LISTING

## S A I D A T A B A S E

PLANT NAME:	1	1	1	1	DCONEE
UNIT NUMBER:	1	1	1	1	2
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-70	01-DEC-70	01-DEC-70	01-DEC-70	01-SEP-74
SAMPLE TYPE:	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	FILTER SLUDGE
SAMPLE SUB-TYPE:	SOLID	SOLID	SOLID	SOLID	SECONDARY
SAMPLING DATE:	29-JUN-78	08-JAN-79	13-MAR-79	14-MAR-79	19-FEB-79
SAMPLE NUMBER:	7455	7677	8038	8028	8018

Concentrations in microcuries/gram

A-113

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	1.35E+00	7.00E-02	1.26E-01	2.30E-02	9.08E-01	4.54E-02	<2.4E-01		1.95E-05	1.19E-05
55-FE										
58-CO	1.34E+01	7.00E-01	2.01E+00	1.01E-01	4.01E+00	2.00E-01	1.07E+00	8.00E-02	<3.1E-05	
60-CD	1.01E+01	5.05E-01	1.86E+00	9.30E-02	1.46E+01	7.30E-01	3.72E+00	1.90E-01	2.69E-05	4.20E-06
59-NI										
63-NI										
90-SR										
73-ZR	3.95E-01	1.60E-01	2.01E-01	7.10E-02	1.04E+00	1.70E-01	2.54E+00	1.27E-01	<8.3E-05	
74-NB										
99-TC										
106-RU	<1.5E-01		1.80E-01	4.40E-02	1.84E+00	9.20E-02	3.75E-01	3.20E-02		
110M-AG	1.57E+00	2.00E-01	4.23E-01	3.20E-02	5.57E+00	2.90E-01	4.83E-01	4.00E-02		
125-SB	<1.5E-01		7.11E-02	3.26E-02	8.21E-01	1.42E-01	2.17E-01	5.20E-02		
129-I										
134-CS	2.83E-01	1.03E-01	<8.5E-03		8.60E-02	3.03E-02	<6.0E-03		1.81E-03	1.00E-04
135-CS										
137-CS	<3.0E-02		<1.0E-02		<1.3E-02		<6.5E-03		4.31E-03	2.15E-04
141-CE	<6.3E-02		<1.6E-02		<4.0E-01		<1.5E-01		<8.6E-04	
144-CE	<2.0E-01		<2.0E-01		2.10E+00	1.50E-01	6.92E-01	6.20E-02		
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	1.58E-03	8.00E-05	8.32E-04	1.00E-04	2.80E-02	1.40E-03	1.42E-02	1.20E-03	4.38E-06	8.70E-07
239-PU	2.43E-03	1.22E-04	1.52E-03	1.60E-04	4.62E-02	2.31E-03	2.29E-02	2.00E-03	2.08E-06	4.20E-07
241-PU										
241-AM	6.41E-04	3.70E-05	6.87E-05	1.30E-05	1.49E-02	1.50E-03	1.11E-02	2.20E-03	1.09E-06	2.50E-07
242-CM	1.90E-03	1.10E-04	9.49E-05	1.99E-05	6.63E-02	6.60E-03	3.75E-02	7.50E-03	8.05E-06	1.22E-06
244-CM	2.73E-04	1.90E-05	1.54E-05	4.80E-06	1.24E-02	1.20E-03	8.45E-03	1.69E-03	6.57E-07	1.98E-07

# RADIOACTIVE WASTE SAMPLE LISTING

S A J D A T A B A S E

PLANT NAME:	OCONEE	OCONEE	OCONEE	OCONEE	OCONEE
UNIT NUMBER:	2	2	3	3	3
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-SEP-74	01-SEP-74	01-DEC-74	01-DEC-74	01-DEC-74
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE
SAMPLE SUB-TYPE:	SECONDARY	SECONDARY	SECONDARY	SECONDARY	SECONDARY
SAMPLING DATE:	17-APR-79	16-APR-79	14-JUL-78	29-NOV-78	05-MAR-79
SAMPLE NUMBER:	7925	7926	7600	7683	8019

Concentrations in microcuries/gram

A-114

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H			<1.6E-04							
14-C			1.39E-04	1.10E-05						
54-MN	<6.5E-06		<1.1E-06		6.17E-05	1.16E-05	5.98E-06	2.50E-06	2.58E-04	1.70E-05
55-FE										
58-CO	<2.5E-05		<2.5E-06		5.14E-05	3.02E-05	<5.1E-06		1.15E-04	4.50E-05
60-CO			3.30E-06	1.45E-06	3.48E-05	1.80E-06	4.02E-06	1.50E-06	2.41E-04	1.70E-05
59-NI			<2.4E-04							
63-NI			<1.6E-04							
90-SR			1.20E-04	1.30E-05						
95-ZR	<5.3E-05		<5.3E-06		<2.2E-05		<1.0E-05		1.87E-04	7.70E-05
94-NB			<7.7E-05							
99-TC			<9.5E-05							
106-RU					1.27E-04	7.70E-05				
110M-AG									3.90E-04	1.67E-04
125-SB										
129-I			<3.8E-05							
134-CS	1.34E-03	7.00E-05	1.05E-05	1.10E-06	7.07E-04	4.00E-05	1.41E-05	2.80E-06	1.40E-05	7.00E-07
135-CS										
137-CS	3.04E-03	1.52E-04	2.50E-05	2.80E-06	1.51E-03	7.55E-05	3.16E-05	2.70E-06	1.64E-04	1.30E-05
141-CE	<4.8E-06		<2.4E-05		<9.8E-05		<1.0E-04		<1.8E-04	
144-CE										
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	2.46E-06	1.50E-07	3.15E-06	3.50E-07	6.41E-05	3.20E-06	5.13E-06	5.40E-07	1.63E-05	8.15E-07
239-PU	6.91E-07	1.42E-07	9.77E-07	1.46E-07	3.45E-05	1.72E-06	9.95E-06	7.60E-07	8.25E-06	4.12E-07
241-PU			<4.7E-04							
241-AM	6.26E-06	8.80E-07	7.45E-07	1.56E-07	2.11E-04	3.60E-05			6.04E-05	3.02E-06
242-CM	2.79E-06	8.90E-07	2.26E-06	2.00E-07	2.88E-03	3.50E-04			1.80E-04	9.00E-06
244-CM	7.40E-07	3.02E-07	5.31E-07	6.90E-08	1.45E-04	2.70E-05			2.17E-05	2.40E-06



# RADIOACTIVE WASTE SAMPLE LISTING

S A I   D A T A B A S E

PLANT NAME:	GINNA	GINNA	YANKEE ROWE	YANKEE ROWE	YANKEE ROWE
UNIT NUMBER:	0	0	0	0	0
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-MAR-70	01-MAR-70	01-JUN-61	01-JUN-61	01-JUN-61
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	RESIN	RESIN	RESIN
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	PRIMARY	PRIMARY
SAMPLING DATE:	04-APR-78	04-APR-78	12-MAY-78	12-SEP-78	06-FEB-79
SAMPLE NUMBER:	7397	7398	7495	7605	8001

Concentrations in microcuries/gram

A-115

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H					9.20E-04	3.50E-04	1.96E-03	1.44E-04		
14-C					3.10E-04	1.20E-04	9.41E-03	4.71E-04		
54-MN	4.99E-05	1.03E-05	2.12E-03	1.10E-04	3.97E-02	2.00E-03	1.57E-02	8.00E-04	1.54E-02	8.00E-04
55-FE										
58-CO	6.65E-05	2.90E-05	1.65E-02	8.25E-04	8.67E-03	4.34E-04	4.38E-03	2.90E-04	3.17E-03	2.50E-04
60-CO	5.26E-04	2.63E-05	1.82E-02	9.10E-04	6.58E-03	3.80E-04	2.51E-03	5.80E-04	3.21E-03	1.60E-04
59-NI					<2.8E-04		<6.8E-04			
63-NI					1.20E-03	1.70E-04	1.46E-03	1.02E-04		
90-SR					1.70E-03	9.00E-05	2.36E-03	1.13E-04		
95-ZR	<1.8E-05		3.33E-04	2.22E-04	<2.7E-04		<1.8E-04		<2.0E-04	
94-NB					<1.8E-04		<7.4E-05			
99-TC					<3.7E-05		<5.3E-06			
106-RU										
110M-AG									2.00E-04	7.90E-05
125-SB			<2.1E-05		3.10E-04	1.00E-04			5.14E-04	4.60E-05
129-I					<5.7E-05		<2.2E-05			
134-CS	7.91E-04	3.95E-05	<4.7E-05		6.25E-02	3.13E-03	4.90E-02	3.60E-03	9.19E-04	7.10E-05
135-CS										
137-CS	1.17E-03	9.00E-05	6.15E-05	3.10E-05	7.78E-02	3.90E-03	4.95E-02	2.50E-03	3.32E-03	1.70E-04
141-CE	<4.5E-05		<1.0E-04		<1.6E-03		<3.9E-04		<1.4E-03	
144-CE	<4.6E-04		1.61E-04	5.00E-05						
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	1.07E-04	1.10E-05	2.40E-06	3.10E-07	1.01E-05	7.00E-07	1.25E-05	1.30E-06	2.83E-04	1.42E-05
239-PU	7.29E-05	3.65E-06	3.86E-06	3.90E-07	6.14E-06	6.10E-07	9.04E-06	6.40E-07	1.70E-04	8.50E-06
241-PU					<3.1E-03		<1.0E-04			
241-AM	1.89E-04	9.45E-06	6.18E-06	1.57E-06	2.14E-05	2.60E-06	2.36E-04	5.20E-05	8.89E-05	4.44E-06
242-CM	5.51E-04	2.76E-05	1.80E-06	1.20E-06	5.47E-06	2.75E-06	1.53E-03	7.50E-04	9.02E-04	4.51E-05
244-CM	9.57E-05	4.80E-06	2.29E-06	9.50E-07	1.67E-06	8.40E-07	<1.1E-05		9.51E-05	4.76E-06

RADIOACTIVE WASTE SAMPLE LISTING  
G A J D A T A B A S E

PLANT NAME:	YANKEE ROWE	GINNA	GINNA	CALVERT CLIFFS
UNIT NUMBER:	0	0	0	1
PLANT TYPE:	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	SEACOAST
START-UP DATE:	01-JUN-61	01-MAR-70	01-MAR-70	01-OCT-72
SAMPLE TYPE:	FILTER CARTRIDGE	RESIN	FILTER CARTRIDGE	RESIN
SAMPLE SUB-TYPE:	FUEL POOL	SECONDARY	RADWASTE	PRIMARY
SAMPLING DATE:	18-JAN-78	24-JAN-78	07-SEP-77	16-NOV-77
SAMPLE NUMBER:	7594	7187	T102	6850

Concentrations in microcuries/gram

A-116

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<3.1E-04									
14-C	1.48E-03	7.40E-05								
54-MN	4.32E-02	2.20E-03	3.66E-04	1.40E-04	2.40E-01	1.20E-02	<7.7E-07		2.36E-01	1.20E-02
55-FE										
58-CO	<1.3E-03		1.57E-03	3.90E-04	8.41E-01	4.21E-02	5.10E-05	3.00E-06	3.30E+00	1.70E-01
60-CO	3.69E-01	1.84E-02	1.57E-02	7.85E-04	5.94E+00	3.00E-01	1.90E-05	3.00E-06	1.01E+00	5.05E-02
59-NI	<7.6E-04									
63-NI	8.45E-02	4.22E-03								
90-SR	8.37E-04	8.37E-05								
95-ZR	<2.2E-03		<3.7E-04		9.02E-02	2.80E-02	1.47E-05	7.35E-07	1.05E+00	5.25E-02
94-NB	<2.8E-04									
99-TC										
106-RU			<1.7E-03		1.17E-01	6.00E-03			2.90E-02	7.60E-03
110M-AG	1.33E-02	8.00E-04	<3.2E-04		9.97E-02	1.10E-02				
125-SB					<2.0E-02					
129-I	<3.3E-05									
134-CS	3.00E-01	1.50E-02	8.83E-02	4.41E-03	7.43E-01	3.71E-02	2.40E-03	1.20E-04	<2.0E-03	
135-CS										
137-CS	4.48E-01	2.24E-02	4.26E-01	2.13E-02	4.60E+00	2.30E-01	3.10E-03	2.00E-04	<1.7E-03	
141-CE	<4.6E-04		<2.4E-03				<6.5E-06		1.12E-01	6.00E-03
144-CE					2.20E-01	1.10E-02			2.67E-01	3.30E-02
152-EU										
154-EU										
155-EU										
235-U									<6.0E-07	
238-U									<6.0E-07	
238-PU	8.85E-06	6.00E-07	8.00E-06	1.00E-06	3.70E-03	2.00E-04			7.10E-05	4.00E-05
239-PU	1.09E-05	7.00E-07	9.20E-06	1.00E-06	8.30E-03	6.00E-04			2.00E-04	8.00E-05
241-PU	<3.7E-04									
241-AM			4.20E-06	5.00E-07	6.00E-03	3.00E-04			<3.0E-06	
242-CM			8.60E-05	1.00E-05	3.40E-03	2.00E-04			2.10E-03	2.00E-04
244-CM			1.61E-06	3.00E-07	9.40E-04	7.00E-05			<3.0E-06	

# RADIOACTIVE WASTE SAMPLE LISTING

## S A I D A T A B A S E

PLANT NAME:	CALVERT CLIFFS	CALVERT CLIFFS	CALVERT CLIFFS	GINNA	SURRY
UNIT NUMBER:	1	1	J	0	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	SEACOAST	SEACOAST	SEACOAST	INLAND	INLAND
START-UP DATE:	01-MAY-75	01-MAY-75	01-MAY-75	01-MAR-70	01-DEC-72
SAMPLE TYPE:	SMEAR	SMEAR	SMEAR	SMEAR	CRUD
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	PRIMARY	PRIMARY
SAMPLING DATE:	10-FEB-77	10-FEB-77	18-JAN-77	08-JUL-77	12-MAY-78
SAMPLE NUMBER:	TOB2	TOB3	TOB4	6727	7198

Concentrations in microcuries/gram

A-117

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	5.89E-02	2.95E-03	1.34E+00	7.00E-02	3.61E+00	1.81E-01	1.07E-01	5.35E-03	1.50E+00	7.50E-02
55-FE										
58-CO	5.74E-01	2.90E-02	2.09E+00	1.00E+00	4.11E+01	2.10E+00	1.23E+00	6.15E-02	4.55E+00	2.30E-01
60-CO	2.84E-01	1.42E-02	7.26E+00	3.63E-01	1.57E+01	8.00E-01	9.00E-01	4.50E-02	6.42E+00	3.21E-01
59-NI										
63-NI										
90-SR										
95-ZR	6.27E-02	5.50E-03	4.37E+00	2.30E-01	9.09E+00	3.00E-01	8.32E-01	4.70E-02	7.53E-02	2.30E-02
94-NB										
99-Tc										
106-RU	5.76E-03	1.30E-03	2.48E-01	1.10E-01	1.02E+00	5.10E-02	6.90E-02	3.50E-03		
110M-Ag									3.25E-02	2.10E-02
125-SB	<2.0E-03		<3.4E-02		1.24E-01	2.00E-02	2.16E-03	1.10E-04		
129-I										
134-CS	<3.4E-04		<8.2E-03		<1.8E-02		1.93E-03	1.10E-03	<4.3E-03	
135-CS										
137-CS	<2.9E-04		<7.3E-03		<1.6E-02		5.92E-03	8.90E-04	<4.6E-03	
141-CE	3.76E-02	1.90E-03	1.64E+00	8.20E-02	1.68E+00	8.40E-02	8.28E-02	7.70E-03		
144-CE	8.86E-02	4.43E-03	1.67E+00	8.35E-02	1.41E+01	7.05E-01	1.38E-01	7.00E-03		
152-EU										
154-EU										
155-EU										
235-U	<6.0E-07		<5.0E-08							
238-U	<6.0E-07		<5.0E-08							
238-PU	1.30E-05	2.00E-06	4.50E-04	4.00E-05	2.00E-03	2.00E-04	1.50E-04	1.00E-05	4.20E-05	2.10E-06
239-PU	4.00E-06	4.00E-07	1.70E-03	2.00E-04	4.70E-03	3.00E-04	2.30E-04	1.15E-05	4.20E-05	2.10E-06
241-PU			<1.0E+00		1.50E-02	1.00E-02				
241-AM	4.30E-06	5.00E-07	9.50E-05	1.20E-05	3.80E-04	4.00E-05	8.40E-05	5.00E-06	5.30E-06	4.00E-07
242-CM	6.70E-05	6.00E-06	3.00E-03	4.00E-04	3.70E-03	5.00E-04	2.30E-03	1.15E-04	1.19E-04	6.00E-06
244-CM	<2.0E-06		1.30E-04	2.00E-05	1.10E-04	2.00E-05	1.30E-04	1.00E-05	5.80E-06	5.00E-07

# RADIOACTIVE WASTE SAMPLE LISTING

## S A I D A T A B A S E

PLANT NAME:	SURRY	YANKEE ROWE	YANKEE ROWE	GINNA	YANKEE ROWE
UNIT NUMBER:	1	0	0	0	0
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-72	01-JUN-61	01-JUN-61	01-MAR-70	01-JUN-61
SAMPLE TYPE:	CRUD	CRUD	CRUD	CRUD	SMEAR
SAMPLE SUB-TYPE:	SECONDARY	PRIMARY	PRIMARY	PRIMARY	PRIMARY
SAMPLING DATE:	12-MAY-78	20-JUL-76	26-JUL-76	01-APR-78	05-DEC-78
SAMPLE NUMBER:	7196	T044	T045	7388	8067

Concentrations in microcuries/gram

A-118

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<6. 0E-04									
14-C	3. 30E-03	3. 30E-04								
54-MN	2. 19E+01	1. 10E+00	1. 09E+02	5. 45E+00	8. 80E+01	4. 40E+00	8. 84E-06	4. 42E-07	1. 30E+00	6. 50E-02
55-FE										
58-CO	5. 60E+01	2. 80E+00	4. 60E+01	2. 30E+00	7. 10E+01	3. 55E+00	3. 95E-04	2. 00E-05	2. 97E+00	1. 48E-01
60-CO	6. 36E+01	3. 20E+00	4. 70E+02	2. 35E+01	1. 74E+02	9. 00E+00	1. 23E-04	6. 20E-06	1. 25E+00	6. 25E-02
59-NI	9. 16E-02	8. 20E-03								
63-NI	6. 53E+00	3. 30E-01								
90-SR	2. 07E-03	1. 40E-04								
95-ZR	9. 44E-01	1. 90E-01	7. 10E+00	1. 20E+00	1. 40E+01	2. 00E+00	1. 17E-04	1. 60E-05	2. 72E-01	1. 65E-01
94-NB	<7. 0E-04									
99-TC	<2. 7E-04									
106-RU	<2. 1E+00									
110M-AG			8. 30E-01	8. 00E-02	3. 20E+00	2. 00E-01	3. 47E-05	1. 73E-06	5. 54E-06	1. 20E-06
125-SB			1. 50E+00	7. 00E-01	8. 00E-01	3. 00E-01	6. 76E-06	3. 60E-07		
129-I	<1. 8E-03									
134-CS	<4. 9E-02									
135-CS							6. 54E-06	5. 30E-07	<1. 9E-03	
137-CS	<5. 1E-02									
141-CE	<6. 0E-02						4. 37E-06	4. 50E-07	<1. 5E-03	
144-CE			1. 20E+01	3. 00E+00	2. 10E+00	9. 00E-01	3. 23E-05	3. 60E-06	<1. 1E+00	
152-EU			4. 50E-02	6. 00E-03	6. 20E-03	8. 00E-04	<5. 8E-05			
154-EU			1. 10E-01	2. 00E-02	1. 00E-02	2. 00E-03				
155-EU			9. 30E-02	4. 65E-03	1. 20E-02	2. 00E-03				
235-U			<3. 0E-06		<3. 0E-06					
238-U			<3. 0E-06		<3. 0E-06					
238-PU	1. 30E-04	1. 00E-05	2. 20E-02	2. 00E-03	2. 80E-03	4. 00E-04	5. 60E-08	3. 00E-09	2. 70E-05	1. 35E-06
239-PU	1. 60E-04	1. 00E-05	4. 80E-02	6. 00E-03	5. 90E-03	7. 00E-04	6. 20E-08	3. 10E-09	3. 66E-05	1. 83E-06
241-PU	3. 93E-02	2. 40E-03	1. 80E+00	1. 00E+00	3. 90E-01	2. 00E-01				
241-AM	1. 60E-05	2. 00E-06	3. 30E-03	5. 00E-04	7. 70E-04	1. 10E-04	6. 60E-08	3. 30E-09	9. 94E-06	1. 29E-06
242-CM	4. 90E-04	2. 50E-05	2. 30E-02	3. 00E-03	5. 70E-03	5. 00E-04	2. 00E-06	1. 00E-07	2. 02E-04	1. 01E-05
244-CM	2. 30E-05	3. 00E-06	6. 20E-04	8. 00E-05	<2. 3E-04		1. 60E-07	1. 00E-08	8. 26E-06	7. 40E-07

# RADIOACTIVE WASTE SAMPLE LISTING

## SAI DATABASE

PLANT NAME:		CONNECTICUT YANKEE	CONNECTICUT YANKEE	CONNECTICUT YANKEE	CONNECTICUT YANKEE
UNIT NUMBER:	1	0	0	0	0
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-70	01-JAN-68	01-JAN-68	01-JAN-68	01-JAN-68
SAMPLE TYPE:	EVAPORATOR BOTTOMS	FUEL POOL	FUEL POOL	SMEAR	SMEAR
SAMPLE SUB-TYPE:	PRIMARY	SOLID	SOLID	PRIMARY	PRIMARY
SAMPLING DATE:	10-JAN-79	07-MAR-77	07-MAR-79	16-FEB-79	20-FEB-79
SAMPLE NUMBER:	7694	7893	7894	C001	C002

Concentrations in microcuries/gram

A-119

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<2.3E-03									
14-C	<6.1E-03									
54-MN	2.56E-01	3.40E-02	1.91E-05	1.60E-06	5.66E-05	2.83E-06	2.54E-09	1.30E-10	3.02E-09	2.20E-10
55-FE										
58-CO	4.16E+00	2.10E-01	2.47E-04	1.24E-05	4.37E-04	2.20E-05	7.99E-09	4.00E-10	6.19E-08	3.10E-09
60-CO	3.53E+00	1.80E-01	2.28E-04	1.14E-05	6.25E-04	3.13E-05	2.25E-09	1.13E-10	1.03E-08	5.15E-10
59-NI	<2.9E-02									
63-NI	3.29E-01	1.65E-02								
90-SR	1.10E-03	4.10E-04					5.53E-09	2.76E-10	5.91E-10	2.96E-11
95-ZR	4.67E-01	1.60E-01	8.47E-04	7.90E-05	8.46E-04	7.70E-05	1.24E-08	1.30E-09	4.19E-08	2.60E-09
94-NB	<2.3E-03									
99-TC	<5.1E-03									
106-RU	3.63E-01	2.27E-01	5.96E-04	3.00E-05	3.66E-04	1.83E-05	1.18E-09	1.00E-10	1.45E-08	1.20E-09
110M-AG	7.35E-01	1.12E-01	1.31E-05	5.80E-06	3.33E-06	1.62E-06	6.26E-11	3.00E-11		
125-SB	7.38E-02	3.70E-03	1.27E-05	3.20E-06	<1.0E-05				3.45E-10	2.15E-10
129-I	<2.4E-03									
134-CS	2.74E-01	2.70E-02	2.48E-05	1.24E-06	<5.8E-07		3.11E-09	1.56E-10	<1.3E-10	
135-CS										
137-CS	<2.7E-02		1.72E-05	1.30E-06	<5.5E-07		2.38E-09	1.20E-10	<1.2E-10	
141-CE	<3.4E-02		5.32E-04	2.70E-05	8.15E-05	1.53E-05	1.92E-08	1.00E-09	1.04E-08	5.20E-10
144-CE	3.38E-01	1.00E-01	2.63E-03	1.31E-04	4.58E-04	2.30E-05	4.94E-08	2.50E-09	1.80E-08	3.20E-09
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	4.25E-03	2.13E-04	1.59E-05	8.00E-07	1.12E-05	8.00E-07	2.37E-10	1.19E-11	1.86E-11	9.30E-13
239-PU	5.72E-03	2.90E-04	4.63E-06	2.31E-07	3.35E-06	2.30E-07	6.69E-11	3.35E-12	6.37E-11	1.08E-11
241-PU	4.10E-01	1.20E-01								
241-AM	5.72E-03	5.00E-04	1.67E-06	8.35E-08	8.26E-07	4.13E-08	1.06E-10	1.60E-11	1.42E-10	2.00E-11
242-CM	1.19E-02	9.00E-04	1.47E-04	7.35E-06	3.63E-05	1.82E-06	8.59E-10	6.00E-11	7.70E-10	6.90E-11
244-CM	1.80E-03	2.30E-04	9.77E-06	4.90E-07	2.91E-06	1.50E-07	1.02E-10	9.00E-12	3.83E-10	1.91E-11

RADIOACTIVE WASTE SAMPLE LISTING  
S A I   D A T A B A S E

PLANT NAME:				
UNIT NUMBER:	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-70	01-DEC-70	01-DEC-70	01-DEC-70
SAMPLE TYPE:	ABRASIVE	SMEAR	SMEAR	RESIN
SAMPLE SUB-TYPE:	SAND	PRIMARY	PRIMARY	PRIMARY
SAMPLING DATE:	16-APR-83	07-APR-83	07-APR-83	12-OCT-82
SAMPLE NUMBER:	10090	10083	10082	10056

Concentrations in microcuries/gram

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	
A-120	3-H						2.00E-03	4.00E-04	3.00E-03	4.00E-04	
	14-C						5.77E-03	2.89E-04	7.03E-03	3.51E-04	
	54-MN	1.00E-01	2.00E-02	1.50E-02	3.00E-03	4.74E-02	3.80E-03	6.30E-01	1.10E-01	<4.6E-02	
	55-FE										
	58-CO	1.46E+00	7.30E-02	2.72E-01	1.36E-02	7.76E-01	3.88E-02	3.97E+00	2.50E-01	3.77E+00	4.00E-01
	60-CD	1.79E+00	8.95E-02	2.98E-01	1.49E-02	6.69E-01	3.34E-02	2.90E+01	1.45E+00	3.72E+01	1.86E+00
	59-NI										
	63-NI							5.55E+00	2.78E-01	9.08E+00	4.54E-01
	90-SR							7.07E-02	3.53E-03	2.36E-02	1.18E-03
	95-ZR	8.00E-02	4.30E-02	9.16E-01	4.58E-02	1.50E+00	7.50E-02				
	94-NB										
	99-TC							2.50E-03	4.00E-04	1.30E-02	2.00E-03
	106-RU	<6.7E-02		<2.9E-01		3.30E-01	4.00E-02	<2.2E-01		<3.4E-01	
	110M-AG	<1.2E-02		<1.2E-03		<1.8E-03		1.93E-01	9.65E-03	<8.0E-02	
	125-SB	<5.5E-02		<4.1E-02		<1.3E-02		4.20E-01	1.70E-01	4.60E-01	2.50E-01
	129-I										
	134-CS	<8.0E-03		<1.1E-03		<1.6E-03		8.68E+00	4.34E-01	7.35E+00	3.68E-01
	135-CS										
	137-CS	<7.6E-03		<1.1E-03		<1.5E-03		1.39E+01	6.95E-01	1.13E+01	5.65E-01
	141-CE	7.76E-02	3.88E-03	1.18E-01	5.90E-03	4.37E-01	2.18E-02	<1.3E-04		<7.6E-04	
144-CE	8.87E-02	6.20E-03	5.30E-01	2.65E-02	6.93E-01	3.47E-02	1.87E-02	9.35E-04	2.08E-02	1.04E-03	
152-EU											
154-EU											
155-EU											
235-U											
238-U											
238-PU	5.62E-05	2.81E-06	4.79E-04	2.40E-05	4.74E-04	2.37E-05	5.74E-04	2.87E-05	8.81E-04	4.41E-05	
239-PU	7.79E-05	3.90E-06	6.74E-04	3.37E-05	7.15E-04	3.57E-05	4.37E-04	2.19E-05	3.63E-04	1.81E-05	
241-PU											
241-AM	2.40E-05	2.00E-06	3.80E-05	5.00E-06	4.15E-05	4.40E-06	1.85E-04	9.25E-06	2.71E-04	1.50E-05	
242-CM	2.29E-04	1.14E-05	2.31E-03	1.15E-04	3.42E-03	1.71E-04	5.02E-04	2.51E-05	8.68E-04	4.40E-05	
244-CM	1.56E-05	1.60E-06	7.10E-05	7.00E-06	1.19E-04	8.00E-06	3.13E-04	1.56E-05	5.38E-04	2.69E-05	

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:			
UNIT NUMBER:	1	2	1
PLANT TYPE:	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-70	01-DEC-70	01-DEC-70
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLE SUB-TYPE:	TOTAL	TOTAL	SOLID
SAMPLING DATE:	20-OCT-82	20-OCT-82	17-DEC-82
SAMPLE NUMBER:	10058	10059	10063

Concentrations in microcuries/gram

A-121

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H					2.10E-03	5.00E-04				
14-C					7.64E-03	3.82E-04				
54-MN	9.36E-07	4.68E-08	1.28E-06	6.40E-08	5.13E+00	4.20E-01	5.16E-07	5.10E-08	<3.0E-03	
55-FE										
58-CO	9.21E-05	4.53E-06	3.49E-05	1.74E-06	4.20E+01	5.00E+00	4.18E-06	2.09E-07	7.10E-02	9.00E-03
60-CO	5.82E-06	2.91E-07	8.77E-06	1.49E-06	7.36E+01	3.68E+00	2.23E-05	1.12E-06	1.11E+00	5.55E-02
59-NI										
63-NI					8.98E+00	4.49E-01				
90-SR	1.25E-07	4.42E-09	3.33E-08	2.96E-09	1.25E+00	6.25E-02	2.03E-07	1.01E-08	6.71E-04	3.36E-05
95-ZR	9.31E-06	4.65E-07	6.68E-06	3.34E-07			1.60E-06	4.00E-07		
94-NB										
99-TC					4.20E-02	7.00E-03				
106-RU	8.80E-07	4.00E-07	2.10E-06	4.00E-07	<1.1E+00		1.90E-06	4.00E-07	<2.3E-02	
110M-AG	1.46E-06	7.30E-08	1.58E-07	1.60E-08	<2.4E-01		1.50E-06	4.00E-07	<4.4E-03	
125-SB	4.10E-07	5.00E-08	<1.0E-07		<7.3E-01		3.70E-07	1.10E-07	<1.9E-02	
129-I					1.90E-05	7.00E-06				
134-CS	9.22E-05	4.22E-06	2.69E-03	1.34E-04	3.71E+01	1.86E+00	6.96E-07	3.48E-08	1.18E-01	6.00E-03
135-CS										
137-CS	1.32E-04	6.17E-06	3.29E-03	1.64E-04	5.61E+02	2.80E+01	<1.5E-08		1.74E-01	1.00E-02
141-CE	2.50E-06	5.00E-07	1.10E-06	5.00E-07	<1.8E-02		<1.3E-07		6.40E-05	2.90E-05
144-CE	1.37E-06	1.30E-07	9.68E-07	1.60E-07	6.18E-02	3.09E-03	8.20E-07	1.20E-07	9.00E-04	1.10E-04
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	1.43E-09	1.12E-10	3.16E-09	2.23E-10	8.88E-04	4.50E-05	7.69E-09	3.84E-10	2.78E-05	1.80E-06
239-PU	1.91E-09	1.42E-10	2.07E-09	1.73E-10	8.70E-04	4.60E-05	9.71E-09	4.85E-10	1.12E-05	1.10E-06
241-PU										
241-AM	7.62E-10	8.73E-11	3.70E-08	2.51E-09	4.24E-04	2.12E-05	1.49E-08	7.45E-10	1.22E-05	9.00E-07
242-CM	1.28E-08	6.09E-10	7.82E-08	3.80E-09	2.06E-03	1.03E-04	8.32E-08	4.16E-09	5.62E-05	2.81E-06
244-CM	1.76E-09	1.30E-10	7.84E-09	7.97E-10	4.94E-04	2.47E-05	2.37E-08	1.18E-09	1.72E-05	1.10E-06

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	1	2	3	4	3
UNIT NUMBER:					
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	SEACOAST	SEACOAST	SEACOAST
START-UP DATE:	01-DEC-70	01-OCT-72	01-DEC-72	01-JUL-79	01-DEC-72
SAMPLE TYPE:	EVAPORATOR BOTTOMS	RESIN	ABRASIVE	ABRASIVE	ABRASIVE
SAMPLE SUB-TYPE:	SOLID	PRIMARY	ALUMINUM OXIDE	ALUMINUM OXIDE	ALUMINUM OXIDE
SAMPLING DATE:	05-JAN-83	20-JAN-83	03-DEC-82	03-DEC-82	08-DEC-82
SAMPLE NUMBER:	10065	10066	10013	10014	10015

Concentrations in microcuries/gram

A-122

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	7.80E-02	3.90E-03	4.70E-03	3.10E-04	<4.5E-05		3.40E-05	1.50E-05	<1.1E-04	
14-C	2.52E-03	1.90E-04	5.42E-03	2.71E-04	<8.6E-06		3.10E-05	7.00E-06	<1.1E-04	
54-MN	3.50E-03	5.00E-04	2.90E-01	6.00E-02	3.60E-02	5.00E-03	2.90E-02	3.00E-03	2.30E-02	3.00E-03
55-FE										
58-CO	1.85E-01	9.25E-03	3.12E+01	1.56E+00	4.77E-01	2.38E-02	4.22E-01	2.11E-02	2.66E-01	1.33E-02
60-CO	6.59E-02	3.29E-03	6.52E+01	3.26E+00	7.54E-01	3.77E-02	6.80E-01	3.40E-02	3.98E-01	1.99E-02
59-NI										
63-NI	1.07E+00	5.35E-02	4.54E-02	2.27E-03	7.86E-02	3.93E-03	8.47E-02	4.23E-03	3.20E-02	1.60E-03
90-SR	1.24E-04	7.00E-06	2.71E-02	1.35E-03	1.16E-04	6.00E-06	1.40E-04	7.00E-06	6.73E-05	3.90E-06
95-ZR	3.74E-02	1.87E-03	5.83E-01	4.60E-02	2.20E-02	1.20E-02	1.30E-02	2.00E-03	<1.9E-02	
94-NB										
99-TC	3.30E-03	5.00E-04	4.00E-03	6.00E-04	<8.9E-05		<6.5E-04		1.70E-04	2.00E-05
106-RU	2.10E-02	5.00E-03	<2.8E-01		<1.3E-02		<8.3E-03		<8.4E-03	
110M-AG	3.90E-03	4.00E-04	1.90E-01	9.00E-02	<2.5E-03		<1.6E-03		<1.6E-03	
125-SB	8.98E-03	8.50E-04	3.60E-01	2.50E-01	<9.3E-03		<7.9E-03		<6.0E-03	
129-I	<7.0E-06		<7.0E-06		<4.1E-05		<3.2E-05		<1.6E-05	
134-CS	4.67E-02	2.34E-03	1.79E+01	8.95E-01	<1.3E-03		<8.3E-04		<8.3E-04	
135-CS										
137-CS	6.39E-02	3.20E-03	2.30E+01	1.15E+00	<1.3E-03		<8.6E-04		<8.6E-04	
141-CE			7.94E-03	3.97E-04	2.07E-03	1.04E-04	3.20E-03	1.60E-04	1.70E-03	2.00E-04
144-CE			2.90E-02	1.60E-03	4.28E-03	2.14E-04	8.04E-03	4.02E-04	3.53E-03	2.70E-04
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	2.02E-05	1.01E-06	2.45E-04	1.30E-05	1.07E-05	6.00E-07	1.16E-05	5.80E-07	7.80E-06	6.80E-07
239-PU	1.84E-05	9.20E-07	2.01E-04	1.01E-05	1.04E-05	5.20E-07	1.30E-05	6.50E-07	5.30E-06	6.00E-07
241-PU										
241-AM	1.22E-05	6.10E-07	1.09E-04	5.45E-06	1.35E-04	1.30E-05	4.39E-05	2.19E-06	2.98E-05	1.49E-06
242-CM	2.50E-04	1.25E-05	2.09E-03	1.05E-04	1.00E-05	1.00E-06	9.25E-06	4.62E-07	6.50E-06	7.00E-07
244-CM	2.10E-05	1.05E-06	2.07E-04	1.03E-05	2.90E-06	4.00E-07	5.97E-06	2.98E-07	1.20E-06	2.00E-07



# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:		OYSTER CREEK	OYSTER CREEK	OYSTER CREEK	DUANE ARNOLD
UNIT NUMBER:	4	0	0	0	0
PLANT TYPE:	PWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	SEACOAST	SEACOAST	SEACOAST	SEACOAST	INLAND
START-UP DATE:	01-JUL-79	01-DEC-69	01-DEC-69	01-DEC-69	01-MAY-74
SAMPLE TYPE:	ABRASIVE	FILTER SLUDGE	FILTER SLUDGE	EVAPORATOR BOTTOMS	RESIN
SAMPLE SUB-TYPE:	ALUMINUM OXIDE	SECONDARY	SECONDARY	SOLID	PRIMARY
SAMPLING DATE:	08-DEC-82	03-JAN-83	03-JAN-83	10-JAN-83	13-NOV-82
SAMPLE NUMBER:	10016	10029	10030	10031	9997

Concentrations in microcuries/gram

A-123

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<6.4E-05									
14-C	<5.1E-05									
54-MN	1.80E-02	2.00E-03	3.80E-02	5.00E-03	2.12E-02	1.10E-03	4.33E-02	2.16E-03	6.36E-01	3.18E-02
55-FE										
58-CO	2.38E-01	1.19E-02	1.40E-02	6.00E-03	2.20E-03	1.20E-03	<4.5E-04		3.53E-01	2.20E-02
60-CO	3.38E-01	1.69E-02	3.78E-01	1.89E-02	1.71E-01	8.55E-03	1.53E-01	7.65E-03	2.79E+00	1.40E-01
59-NI										
63-NI	2.75E-02	1.37E-03							1.54E-02	2.00E-03
90-SR	5.65E-05	3.70E-06	1.79E-03	8.95E-05	2.37E-03	1.19E-04	2.01E-03	1.01E-04	5.22E-04	5.10E-05
95-ZR										
94-NB										
99-TC	5.60E-04	1.10E-04								
106-RU	<4.2E-01				<2.1E-03		<2.9E-03		<3.2E-02	
110M-AG	<1.0E-03		<2.4E-03				<5.4E-04		<6.2E-03	
125-SB	<8.4E-03		<8.8E-03		<1.4E-03		<2.1E-03		<2.1E-02	
129-I	<5.7E-05									
134-CS	<5.3E-04		<1.2E-03		<1.0E-03		7.70E-03	6.10E-04	<2.9E-03	
135-CS										
137-CS	<5.4E-04		8.70E-03	3.90E-03	5.50E-03	7.00E-04	5.84E-02	2.92E-03	3.20E-02	9.00E-03
141-CE	1.33E-03	8.00E-05	1.98E-03	1.00E-04	8.59E-04	7.40E-05	<2.3E-06		5.40E-04	8.00E-05
144-CE	2.54E-03	1.27E-04	5.72E-04	2.86E-05	4.30E-04	7.00E-05	3.70E-04	7.00E-05	1.20E-04	6.00E-05
152-EU										
154-EU										
155-EU										
235-U									<3.3E-07	
238-U									<9.3E-08	
238-PU	4.74E-06	3.30E-07	5.47E-05	2.73E-06	4.13E-05	2.06E-06	1.57E-05	8.00E-07	2.33E-06	2.10E-07
239-PU	3.72E-06	2.80E-07	2.09E-05	1.10E-06	1.20E-05	9.00E-07	6.26E-06	4.60E-07	8.20E-07	1.20E-07
241-PU										
241-AM	1.70E-06	2.00E-07	1.80E-05	9.00E-07	1.15E-05	1.00E-06	5.96E-06	4.20E-07	2.20E-06	2.00E-07
242-CM	4.19E-06	3.90E-07	3.63E-05	1.82E-06	1.70E-05	1.40E-06	2.08E-05	1.04E-06	5.60E-07	1.30E-07
244-CM	7.90E-07	1.40E-07	4.01E-05	2.00E-06	2.29E-05	1.40E-06	1.38E-05	7.00E-07	1.50E-07	6.00E-08

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	DUANE ARNOLD	DUANE ARNOLD	DUANE ARNOLD	DUANE ARNOLD	INDIAN POINT
UNIT NUMBER:	0	0	0	0	3
PLANT TYPE:	BWR	BWR	BWR	BWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-MAY-74	01-MAY-74	01-MAY-74	01-MAY-74	01-AUG-76
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	REACTOR COOLANT
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	PRIMARY	SOLID
SAMPLING DATE:	11-DEC-82	15-DEC-82	17-DEC-82	20-DEC-82	28-DEC-82
SAMPLE NUMBER:	9998	9999	10000	10001	9991

Concentrations in microcuries/gram

A-124

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	5.99E+00	2.99E-01	6.87E+00	3.43E-01	5.20E-01	2.60E-02	2.93E-01	1.47E-02	2.10E-03	3.00E-04
55-FE										
58-CO	1.90E+00	1.20E-01	2.05E+00	1.50E-01	9.20E-02	1.90E-02	<1.6E-03		7.15E-03	3.57E-04
60-CO	3.52E+01	1.76E+00	4.12E+01	2.06E+00	4.38E+00	2.19E-01	1.78E+00	8.90E-02	6.14E-02	3.07E-03
59-NI										
63-NI	1.57E-01	1.00E-02	2.31E-01	1.15E-02	8.26E-02	7.00E-03	1.52E-02	7.60E-04		
90-SR	5.72E-03	2.86E-04	6.16E-03	3.08E-04	1.46E-03	7.30E-05	1.20E-03	6.00E-05	6.64E-07	3.32E-08
95-ZR										
94-NB										
99-TC									4.50E-05	9.00E-06
106-RU	<2.1E-01		<2.9E-01		<3.9E-02		<1.0E-02		<6.7E-04	
110M-AG	2.50E-01	1.20E-01	<5.7E-02		<2.7E-02		<2.0E-03		<1.4E-04	
125-SB	<1.4E-02		<1.9E-01		<2.5E-02		<6.4E-03		<4.8E-04	
129-I									<1.3E-08	
134-CS	<2.0E-01		1.60E-01	2.00E-02	1.00E-01	2.00E-02	4.35E-02	2.18E-03	<6.5E-05	
135-CS										
137-CS	1.30E-01	7.00E-02	4.20E-01	9.00E-02	2.85E-01	1.43E-02	1.12E-01	5.60E-03	<7.6E-05	
141-CE	4.54E-03	2.27E-04	5.38E-03	2.69E-04	2.83E-03	1.42E-04	<6.6E-06		<5.4E-05	
144-CE	6.50E-04	9.00E-05	5.90E-04	1.00E-04	4.33E-04	2.16E-05	4.80E-05	2.60E-05	<1.8E-04	
152-EU										
154-EU										
155-EU										
235-U	<5.3E-07		<7.9E-07		<1.3E-06		<7.6E-07			
238-U	4.20E-07	1.50E-07	<3.2E-07		<7.6E-07		3.10E-07	9.00E-08		
238-PU	7.55E-06	7.00E-07	7.54E-06	5.80E-07	9.19E-06	8.60E-07	<2.7E-06		<5.3E-08	
239-PU	7.26E-06	6.80E-07	8.05E-06	6.00E-07	3.20E-06	5.00E-07	<1.2E-06		1.01E-07	6.00E-09
241-PU										
241-AM	9.30E-07	1.70E-07	9.70E-07	2.00E-07	1.80E-06	3.00E-07	4.10E-07	1.10E-07	5.60E-08	2.80E-09
242-CM	4.12E-06	3.50E-07	4.30E-06	4.00E-07	5.80E-07	1.70E-07	<1.8E-08		1.60E-07	2.00E-08
244-CM	3.20E-07	9.00E-08	4.50E-07	1.20E-07	1.80E-07	8.00E-08	3.60E-08	2.50E-08	4.80E-08	1.00E-08

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	INDIAN POINT		
UNIT NUMBER:	3	1	1
PLANT TYPE:	PWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND
START-UP DATE:	01-AUG-76	01-NOV-82	01-NOV-82
SAMPLE TYPE:	REACTOR COOLANT	RESIN	EVAPORATOR BOTTOMS
SAMPLE SUB-TYPE:	SOLID	PRIMARY	SOLID
SAMPLING DATE:	28-DEC-82	13-JAN-83	13-JAN-83
SAMPLE NUMBER:	9992	10003	10004

Concentrations in microcuries/gram

A-125

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H			<2. 0E-05		<2. 5E-05		<2. 5E-05		<2. 0E-05	
14-C			<2. 9E-05		<7. 7E-06		<1. 5E-05		<6. 9E-05	
54-MN	8. 10E-04	1. 20E-04	5. 26E-05	3. 40E-06	1. 90E-06	5. 00E-07	2. 57E-04	1. 28E-05	1. 32E-01	6. 60E-03
55-FE			<1. 4E-04		<3. 2E-05		4. 42E-04	3. 80E-05	1. 72E-02	1. 00E-03
58-CO	2. 53E-03	1. 40E-04	9. 48E-04	4. 74E-05	9. 80E-06	9. 00E-07	2. 25E-03	1. 12E-04	7. 91E-01	3. 95E-02
60-CO	2. 40E-02	1. 20E-03	3. 79E-05	1. 89E-06	6. 60E-07	2. 50E-07	1. 61E-04	8. 05E-06	5. 20E-02	2. 60E-03
59-NI										
63-NI										
90-SR	1. 03E-06	5. 15E-08	4. 70E-06	1. 10E-06	1. 30E-06	4. 00E-07	6. 59E-05	3. 29E-06	8. 50E-06	2. 90E-06
95-ZR										
94-NB										
99-TC	<4. 3E-06									
106-RU	<2. 9E-04		<1. 4E-05		<1. 5E-06		<2. 6E-05		<5. 6E-03	
110M-AC	<6. 3E-05		<8. 2E-07		<1. 8E-07		<2. 3E-06		<4. 8E-04	
125-SB	<2. 1E-04		<9. 9E-06		<1. 1E-06		<1. 7E-05		<3. 8E-03	
129-I	<1. 9E-08									
134-CS	<2. 9E-05		<1. 7E-06		<1. 4E-07		<3. 3E-06		<6. 5E-04	
135-CS										
137-CS	<3. 4E-05		<1. 4E-06		<2. 1E-07		<2. 5E-06		<5. 2E-04	
141-CE	<2. 4E-05		<1. 0E-06		8. 90E-07	4. 60E-07	<1. 3E-05		<4. 6E-04	
144-CE	<8. 0E-05		<4. 2E-06		<4. 8E-07		<7. 9E-06		<1. 7E-03	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	2. 60E-08	3. 00E-09	2. 80E-06	6. 00E-07	<5. 9E-07		<2. 6E-06		<5. 5E-06	
239-PU	4. 10E-08	3. 40E-09	4. 20E-07	9. 00E-08	<1. 2E-07		<5. 2E-07		<1. 1E-06	
241-PU										
241-AM	2. 10E-08	3. 00E-09	2. 80E-07	1. 40E-08	2. 60E-07	7. 00E-08	1. 80E-07	8. 00E-08	1. 60E-06	6. 00E-07
242-CM	2. 90E-08	4. 00E-09	8. 00E-08	3. 70E-08	<1. 1E-08		8. 10E-08	3. 60E-08	<2. 7E-07	
244-CM	1. 00E-08	2. 00E-09	5. 30E-08	2. 80E-08	<1. 7E-08		5. 20E-07	2. 60E-07	<1. 3E-07	

# RADIOACTIVE WASTE SAMPLE LISTING

SAJ DATABASE

PLANT NAME:	INDIAN POINT	INDIAN POINT	INDIAN POINT	OCONEE	OCONEE
UNIT NUMBER:	3	3	3	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-AUG-76	01-AUG-76	01-AUG-76	01-JUL-73	01-JUL-73
SAMPLE TYPE:	SMEAR	REACTOR COOLANT	REACTOR COOLANT	FILTER CARTRIDGE	FILTER CARTRIDGE
SAMPLE SUB-TYPE:	FUEL POOL	SOLID	SOLID	PRIMARY	FUEL POOL
SAMPLING DATE:	22-JUL-82	27-MAR-82	28-MAR-82	19-NOV-82	19-NOV-82
SAMPLE NUMBER:	9993	9994	9995	9974	9973

Concentrations in microcuries/gram

A-126

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	3.40E-03	1.60E-03	1.30E-05	2.00E-06	3.20E-05	4.00E-06	5.89E+01	2.94E+00	4.19E+00	2.09E-01
55-FE										
58-CO	1.90E-02	6.00E-03	2.30E-05	2.00E-06	9.38E-04	4.69E-05	8.80E+01	4.40E+00	3.93E+01	1.97E+00
60-CO	2.13E-02	1.50E-03	9.64E-05	4.82E-06	2.70E-04	1.35E-05	2.82E+02	1.41E+01	4.25E+01	2.13E+00
59-NI										
63-NI										
90-SR	<7.4E-06		9.20E-09	2.20E-09	4.68E-08	3.10E-09				
95-ZR										
94-NB										
99-TC	<6.2E-05		2.00E-07	4.00E-08	4.20E-07	9.00E-08			3.10E+00	1.60E+00
106-RU	<3.7E-03		<4.7E-06		<8.6E-06		<2.1E+00		4.57E+00	4.30E-01
110M-AG	<8.0E-04		<1.2E-06		<2.0E-06		7.63E+01	3.82E+00	9.90E-01	4.30E-01
125-SB	<2.8E-03		<2.8E-06		<4.6E-06		1.30E+01	3.00E+00		
129-I	<8.9E-06		<3.7E-09		<2.5E-09				3.50E-01	7.00E-02
134-CS	<3.0E-04		3.20E-06	4.00E-07	4.10E-06	2.00E-06	<1.9E-01			
135-CS										
137-CS	<3.4E-04		3.50E-06	1.10E-06	3.40E-06	1.70E-06	<4.6E-01		<7.9E-02	
141-CE	<7.5E-03		<6.5E-05		<1.0E-04		5.10E-02	6.00E-03	1.40E-02	1.00E-03
144-CE	<1.6E-03		<1.7E-06		<2.8E-06		5.50E+00	7.00E-01	6.01E-01	3.01E-02
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	4.50E-06	5.00E-07	2.50E-09	3.00E-10	3.03E-08	1.52E-09	6.24E-02	3.12E-03	3.02E-03	1.51E-04
239-PU	1.90E-06	4.00E-07	1.10E-09	2.00E-10	5.47E-09	3.50E-10	4.62E-02	2.31E-03	4.06E-03	2.03E-04
241-PU							4.50E+00	5.00E-01	5.50E-01	1.10E-01
241-AM	1.10E-06	6.00E-07	5.20E-10	2.10E-10	7.30E-09	8.00E-10	2.10E-02	4.00E-03	3.22E-03	1.61E-04
242-CM	2.60E-05	4.00E-06	1.50E-08	2.00E-09	5.70E-08	6.00E-09	6.10E-02	1.20E-02	1.88E-02	9.40E-04
244-CM	2.00E-06	5.00E-07	5.70E-10	1.60E-10	3.67E-09	1.84E-10	2.80E-02	6.00E-03	3.20E-03	1.60E-04

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:					
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-NOV-82	01-NOV-82	01-NOV-82	01-NOV-82	01-NOV-82
SAMPLE TYPE:	FILTER SLUDGE	RESIN	EVAPORATOR BOTTOMS	FILTER SLUDGE	REACTOR COOLANT
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	SOLID	RADWASTE	TOTAL
SAMPLING DATE:	14-APR-83	14-APR-83	14-APR-83	14-APR-83	31-MAR-83
SAMPLE NUMBER:	100B4	100B5	100B6	100B7	100B8

Concentrations in microcuries/gram

A-127

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<1.0E-04		1.00E-04	2.00E-05	1.00E-04	1.00E-05	1.00E-04	3.00E-05	3.09E-04	1.54E-05
14-C	<2.0E-04		1.00E-04	2.00E-05	<1.5E-04		<2.0E-04		<4.3E-05	
54-MN	4.50E-02	2.25E-03	1.41E-03	7.05E-05	8.82E-04	4.41E-05	2.11E-03	1.06E-04	1.34E-04	5.91E-06
55-FE										
58-CO	1.08E-01	5.40E-03	2.55E-03	1.27E-04	2.40E-03	1.20E-04	7.16E-03	3.58E-04	3.36E-04	1.38E-05
60-CO	1.47E-02	7.35E-04	1.90E-04	9.50E-06	2.59E-04	1.80E-05	1.36E-03	6.80E-05	3.47E-05	1.28E-06
59-NI	8.90E-05	4.40E-05	<8.5E-05		<1.9E-04		<2.8E-04		<8.3E-04	
63-NI	1.58E-03	7.90E-05	<7.2E-06		9.15E-04	4.57E-05	1.60E-04	1.20E-05	4.10E-04	2.05E-05
90-SR	1.80E-06	4.00E-07	9.00E-07	3.80E-07	<4.1E-07		1.10E-06	3.00E-07	1.00E-06	2.00E-07
95-ZR	1.30E-03	7.00E-04							9.70E-07	3.30E-07
94-NB	<7.0E-05		<3.7E-05		<1.6E-05		<7.7E-05		<1.3E-05	
99-TC	<8.6E-06		<2.4E-05		<3.5E-06		<5.5E-06		<1.0E-05	
106-RU	<1.2E-03		<6.3E-05		<7.3E-05		<1.3E-04		<4.4E-06	
110M-AG	<1.1E-04		<3.6E-05		<5.7E-06		<1.3E-05			
125-SB	<9.7E-02		<4.0E-05		<5.0E-05		<8.8E-05		<2.9E-06	
129-I	<3.4E-06		<5.8E-05		<4.8E-06		<7.5E-06		1.90E-08	9.00E-09
134-CS	<1.5E-04		<7.3E-06		<9.0E-06		<1.5E-05		<5.7E-07	
135-CS										
137-CS	<1.2E-04		2.30E-05	1.60E-05	<7.6E-06		<1.3E-05		<4.1E-07	
141-CE	<1.0E-04		<4.2E-06		<5.8E-06		<1.0E-05		<8.1E-07	
144-CE	<3.7E-04		<1.7E-05		<2.3E-05		<3.8E-05		<2.2E-06	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	2.70E-06	3.00E-07	<1.5E-06		1.60E-07	3.00E-08	<2.8E-07		1.90E-08	2.00E-09
239-PU	1.70E-06	2.00E-07	<4.4E-07		5.20E-08	1.60E-08	<2.3E-07		1.20E-08	2.00E-09
241-PU	<4.9E-06		<7.1E-07		<2.6E-06		<4.5E-07		<5.0E-08	
241-AM	1.20E-06	3.00E-07	<1.2E-06		<1.0E-06		8.10E-07	2.70E-07	1.64E-07	2.62E-08
242-CM	<7.6E-08		1.30E-06	4.00E-07	<7.7E-07		3.80E-07	1.30E-07	6.40E-08	1.75E-08
244-CM	<7.6E-08		<2.7E-07		<3.6E-07		1.30E-07	3.00E-08	4.90E-08	1.50E-08

# RADIOACTIVE WASTE SAMPLE LISTING

SAJ DATABASE

PLANT NAME:	1	V C SUMMER	V C SUMMER	OYSTER CREEK
UNIT NUMBER:	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	SEACAST
START-UP DATE:	01-DEC-70	01-DEC-70	01-DEC-80	01-DEC-69
SAMPLE TYPE:	DRY ACTIVE WASTE	DRY ACTIVE WASTE	REACTOR COOLANT	EVAPORATOR BOTTGMS
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	SOLID	SOLID
SAMPLING DATE:	15-FEB-83	15-FEB-83	20-JAN-83	10-OCT-82
SAMPLE NUMBER:	10026	10027	10012	9960

Concentrations in microcuries/gram

A-128

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	1.00E-02	2.00E-03	2.70E-02	2.70E-03			<1.1E-08		4.82E-01	2.41E-02
55-FE										
58-CO	1.40E-01	7.00E-03	4.14E-01	2.07E-02			<9.2E-09		<3.4E-03	
60-CD	6.09E-01	3.04E-02	1.79E+00	8.95E-02			7.60E-08	1.90E-08	1.28E+00	6.40E-02
59-NI										
63-NI										
90-SR									2.66E-03	1.33E-04
95-ZR	1.50E-02	2.00E-03	4.37E-02	2.19E-03			<1.9E-08		<5.7E-03	
94-NB										
99-TC										
106-RU	2.90E-02	1.10E-02	8.40E-02	2.00E-02					<1.8E-02	
110M-AG	<8.9E-04		<1.6E-03						<3.4E-03	
125-SB	<2.5E-03		<4.3E-03						<1.1E-02	
129-I										
134-CS	3.20E-03	1.60E-03	<6.3E-04				<1.1E-08		9.60E-03	4.60E-03
135-CS										
137-CS	<4.2E-04		<7.2E-04				<1.6E-08		5.00E-02	6.00E-03
141-CE	2.40E-03	8.00E-04	5.90E-03	1.40E-03			<1.5E-08		3.40E-04	4.00E-05
144-CE	1.20E-02	3.00E-03	3.20E-02	6.00E-03			<1.5E-07		5.80E-03	2.90E-04
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	1.23E-04	6.15E-06	4.41E-04	2.21E-05	2.60E-10	4.00E-11	<2.4E-08		1.56E-04	7.80E-06
239-PU	1.48E-04	7.40E-06	3.10E-04	2.55E-05	7.10E-11	2.00E-11	<9.4E-09		7.32E-05	3.66E-06
241-PU										
241-AM	9.55E-05	5.30E-06	3.71E-04	1.85E-05	2.80E-10	1.30E-10	1.10E-09	6.00E-10	4.55E-05	2.28E-06
242-CM	3.83E-04	1.92E-05	1.87E-03	9.35E-05	9.30E-11	5.00E-11	<3.2E-10		3.41E-04	1.71E-05
244-CM	7.85E-05	4.70E-06	2.58E-04	1.29E-05	1.00E-10	5.00E-11	6.20E-10	2.70E-10	1.48E-04	7.40E-06

# RADIOACTIVE WASTE SAMPLE LISTING

## SAI DATABASE

PLANT NAME:	OYSTER CREEK	TROJAN	MONTICELLO	OYSTER CREEK	OYSTER CREEK
UNIT NUMBER:	1		0	1	1
PLANT TYPE:	BWR	PWR	BWR	BWR	BWR
PLANT LOCATION:	SEACOAST	INLAND	INLAND	SEACOAST	SEACOAST
START-UP DATE:	01-DEC-69	01-MAY-76	01-JUL-71	01-DEC-69	01-DEC-69
SAMPLE TYPE:	FILTER SLUDGE	FILTER	FUEL POC.	REACTOR COOLANT	RESIN
SAMPLE SUB-TYPE:	SECONDARY	PRIMARY	SOLID	LIQUID	PRIMARY
SAMPLING DATE:	25-OCT-82	22-NOV-82	02-AUG-82	25-APR-83	08-APR-83
SAMPLE NUMBER:	9970	9963	9922	10124	10123

Concentrations in microcuries/gram

A-129

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H					6.75E-03	3.38E-04	2.04E-03	1.02E-04		
14-C										
54-MN	1.22E-01	6.10E-03	8.50E-03	1.70E-03	1.10E-05	2.00E-06	1.71E-06	8.60E-07	1.04E-02	2.50E-03
55-FE										
58-CO	<1.3E-03		2.49E-02	2.20E-03	<5.7E-07		<3.3E-07		<7.7E-04	
60-CO	4.30E-01	2.15E-02	2.24E-01	1.12E-02	1.85E-04	9.25E-06	5.44E-05	2.72E-06	3.36E-01	1.68E-02
59-NI										
63-NI			6.14E-02	3.07E-03						
90-SR	1.46E-03	7.30E-05	1.14E-03	5.70E-05	6.52E-07	3.80E-08				
95-ZR			1.90E-02	3.00E-03						
94-NB										
99-TC										
106-RU	<7.2E-03		2.70E-02	1.20E-02	<4.4E-06		<2.0E-06		<5.5E-03	
110M-AG	<1.5E-03				<8.3E-07		<4.5E-07		<2.8E-03	
125-SB	<4.6E-03		<3.0E-03		<4.5E-06		<1.4E-06		<4.0E-03	
129-I										
134-CS	<6.9E-04		1.60E-02	8.00E-04	1.65E-05	1.00E-06	<1.8E-07		<4.4E-02	
135-CS										
137-CS	<5.0E-03		2.87E-02	1.80E-03	1.71E-04	6.55E-06	<2.2E-07		2.03E-02	2.30E-03
141-CE	1.30E-02	3.00E-03	1.60E-03	1.00E-03	<5.8E-07		<3.2E-07		<1.6E-03	
144-CE	<2.0E-03		2.80E-02	1.50E-02	<1.3E-06		<7.0E-07		<1.6E-03	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	1.53E-04	7.65E-06	1.69E-06	8.45E-08	9.43E-06	4.71E-09				
239-PU	6.78E-05	4.20E-06	7.33E-06	3.66E-07	3.83E-09	2.60E-09				
241-PU										
241-AM	3.93E-05	1.96E-06	8.86E-07	5.00E-08	1.38E-07	6.90E-09				
242-CM	1.60E-04	8.00E-06	2.31E-06	1.16E-07	1.44E-07	7.20E-09				
244-CM	9.96E-05	4.98E-06	2.97E-07	2.80E-08	9.88E-08	5.10E-09				

# RADIOACTIVE WASTE SAMPLE LISTING

## SAI DATABASE

PLANT NAME:	FARLEY	FARLEY	FARLEY	FARLEY	MCGUIRE
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-77	01-DEC-77	01-DEC-77	01-DEC-77	01-JAN-80
SAMPLE TYPE:	CHARCOAL	CHARCOAL	RESIN	SMEAR	RESIN
SAMPLE SUB-TYPE:	RADWASTE	RADWASTE	PRIMARY	PRIMARY	PRIMARY
SAMPLING DATE:	25-MAR-83	25-MAR-83	25-MAR-83	25-MAR-83	06-APR-83
SAMPLE NUMBER:	10143	10144	10145	10146	10106

Concentrations in microcuries/gram

A-130

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN										
55-FE										
58-CO										
60-CO										
59-NI										
63-NI										
90-SR										
95-ZR										
94-NB										
99-TC										
106-RU										
110M-AG										
125-SB										
129-I										
134-CS										
135-CS										
137-CS										
141-CE	8.43E-02	3.30E-02	1.01E-03	5.05E-05	1.86E-02	3.60E-03	1.07E-04	5.10E-05	<1.9E-04	
144-CE	2.27E-01	2.20E-02	7.30E-03	3.65E-04	6.49E-02	3.25E-03	5.99E-04	1.50E-04	<2.4E-04	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	2.60E-05	1.30E-06	1.88E-06	2.00E-07	5.84E-06	5.90E-07	4.36E-06	6.90E-07	<6.2E-06	
239-PU	5.01E-04	2.50E-05	2.81E-05	1.41E-06	9.93E-05	4.96E-06	3.36E-06	6.60E-07	<5.2E-06	
241-PU										
241-AM	1.68E-05	3.40E-06	8.25E-07	1.20E-07	4.20E-06	4.50E-07	1.65E-06	4.80E-07	8.40E-05	7.00E-06
242-CM	3.23E-04	6.50E-05	1.36E-05	6.80E-07	7.40E-05	3.70E-06	7.07E-06	1.20E-06	2.10E-06	5.00E-07
244-CM	1.68E-05	3.40E-06	4.53E-07	8.60E-08	1.65E-06	2.80E-07	8.42E-07	3.40E-07	6.50E-07	2.80E-07
									<3.7E-07	



RADIOACTIVE WASTE SAMPLE LISTING  
S A I   D A T A B A S E

PLANT NAME:	NORTH ANNA				
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-JUN-78	01-AUG-74	01-AUG-74	01-AUG-74	01-AUG-74
SAMPLE TYPE:	REACTOR COOLANT	SMEAR	SMEAR	SMEAR	SMEAR
SAMPLE SUB-TYPE:	TOTAL	PRIMARY	PRIMARY	PRIMARY	PRIMARY
SAMPLING DATE:	09-MAY-83	27-MAY-83	27-MAY-83	27-MAY-83	27-MAY-83
SAMPLE NUMBER:	10121	10125	10126	10127	10128

Concentrations in microcuries/gram

A-131

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	5.12E-05	3.45E-06	2.00E-04	7.32E-05	2.70E-04	1.13E-04	<4.8E-05		3.30E-04	2.13E-04
55-FE										
58-CO	1.14E-03	4.34E-05	<2.4E-05		<3.7E-05		<1.8E-04		<7.8E-05	
60-CD	1.95E-04	1.17E-05	4.29E-03	2.15E-04	3.86E-03	6.30E-04			4.58E-03	2.63E-04
59-NI										
63-NI										
90-SR	6.53E-07	8.70E-08								
95-ZR	3.59E-04	1.70E-04	4.39E-03	2.19E-04	3.56E-02	2.19E-03	2.84E-02	1.66E-03	8.40E-02	4.20E-03
94-NB										
99-TC										
106-RU	<2.4E-06		5.48E-03	7.27E-04	4.21E-02	2.10E-03	2.09E-02	3.22E-03	8.90E-02	4.45E-03
110M-AG	<2.5E-07		<3.9E-05		<5.4E-05		<6.7E-05		<1.1E-04	
125-SB	<1.6E-06		5.97E-04	1.77E-04	1.20E-03	3.07E-04	2.21E-03	3.93E-04	1.43E-03	9.27E-04
129-I										
134-CS	2.22E-04	1.11E-05	<2.2E-05		<5.0E-05		<7.9E-05		<1.2E-04	
135-CS										
137-CS	5.02E-04	2.51E-05	<1.8E-05		<4.3E-05		<6.6E-05		<1.0E-04	
141-CE	6.85E-06	8.10E-07	6.48E-03	3.24E-04	2.39E-02	1.20E-03	2.03E-02	1.02E-03	3.35E-02	1.67E-03
144-CE	5.64E-06	2.20E-06	1.07E-02	5.35E-04	1.09E-01	5.45E-03	5.93E-02	2.96E-03	2.09E-01	1.04E-02
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	4.30E-09	2.60E-10	3.13E-05	2.20E-06	3.10E-04	1.55E-05	1.20E-04	6.30E-06	2.52E-04	1.70E-05
239-PU	4.31E-09	2.60E-10	1.77E-05	1.60E-06	1.68E-04	8.40E-06	6.46E-05	4.10E-06	1.22E-04	9.40E-06
241-PU										
241-AM	1.09E-09	2.10E-10	1.82E-05	1.90E-06	5.58E-05	3.70E-06	2.78E-05	2.80E-06	7.30E-05	7.80E-06
242-CM	6.27E-08	3.14E-09	1.39E-04	6.95E-06	1.57E-03	7.85E-05	1.81E-03	9.05E-05	2.19E-03	1.10E-04
244-CM	1.09E-09	2.10E-10	1.22E-05	1.50E-06	1.29E-04	6.45E-06	6.89E-05	4.80E-06	1.76E-04	1.40E-05

# RADIOACTIVE WASTE SAMPLE LISTING

## SAI DATABASE

PLANT NAME:	1	1	1	1	1
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-AUG-74	01-AUG-74	01-AUG-74	01-AUG-74	01-AUG-74
SAMPLE TYPE:	SMEAR	SMEAR	REACTOR COOLANT	FUEL POOL	FILTER SLUDGE
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	SOLID	SOLID	SECONDARY
SAMPLING DATE:	27-MAY-83	27-MAY-83	24-MAY-83	24-MAY-83	24-MAY-83
SAMPLE NUMBER:	10129	10130	10131	10132	10133

Concentrations in microcuries/gram

A-132

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	4.66E-04	1.75E-04	<8.9E-05		3.94E-05	1.97E-06	3.47E-06	1.20E-06	6.92E+00	4.08E-01
55-FE										
58-CO	3.22E-04	1.70E-04	4.81E-04	2.54E-04	2.41E-05	1.20E-06	<3.9E-07		4.53E+00	4.28E-01
60-CO	2.35E-02	1.17E-03	3.58E-02	1.79E-03	2.88E-04	1.44E-05	1.08E-05	1.22E-06	5.46E+01	3.72E+00
59-NI										
63-NI										
90-SR										
95-ZR	1.80E-02	9.31E-04	4.91E-03	5.96E-04	3.55E-05	4.89E-06			1.14E+00	6.83E-01
94-NB										
99-TC										
106-RU	1.83E-02	9.15E-04	5.08E-03	1.55E-03	1.65E-05	5.63E-06	<2.8E-06		<1.3E+00	
110M-AG	<9.4E-05		<1.6E-04		<4.6E-07		<6.9E-07		1.26E+01	6.30E-01
125-SB	1.30E-03	4.37E-04	<3.4E-04		<1.7E-06		<2.5E-06		<1.2E+00	
129-I										
134-CS	<4.9E-05		3.06E-04	1.50E-04	1.93E-06	8.71E-07	1.57E-05	1.16E-06	1.02E+02	5.38E+00
135-CS										
137-CS	<4.8E-05		6.06E-04	1.89E-04	1.09E-06	6.54E-07	1.39E-05	1.52E-06	1.02E+02	5.10E+00
141-CE	1.31E-02	6.55E-04	8.61E-03	4.30E-04	2.41E-05	1.20E-06	<2.9E-07		1.26E+00	3.67E-01
144-CE	2.84E-02	1.42E-03	1.59E-02	7.95E-04	4.58E-05	2.29E-06	<1.0E-06		<4.8E-01	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	4.73E-05	2.94E-06	1.86E-05	1.26E-06	4.21E-08	2.10E-09	3.48E-09	1.74E-10	2.39E-04	1.20E-05
239-PU	2.41E-05	1.96E-06	8.89E-06	8.42E-07	1.93E-08	1.10E-09	7.58E-10	7.70E-11	1.87E-04	9.60E-06
241-PU										
241-AM	1.47E-05	1.46E-06	4.47E-06	5.72E-07	1.20E-08	7.50E-10	8.12E-10	1.20E-10	2.64E-05	2.50E-06
242-CM	8.20E-04	4.10E-05	4.15E-04	2.07E-05	1.45E-06	7.25E-08	6.88E-08	3.44E-09	2.47E-03	1.23E-04
244-CM	4.12E-05	2.55E-06	2.11E-05	1.28E-06	6.89E-08	3.45E-09	2.87E-09	2.30E-10	1.17E-04	6.00E-06

# RADIOACTIVE WASTE SAMPLE LISTING

## SAI DATABASE

PLANT NAME:	1	1	TROJAN	MCGUIRE
UNIT NUMBER:	1	1	1	1
PLANT TYPE:	BWR	BWR	BWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-AUG-74	01-AUG-74	01-AUG-74	01-MAY-76
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	REACTOR COOLANT
SAMPLE SUB-TYPE:	SECONDARY	SECONDARY	SECONDARY	SOLID
SAMPLING DATE:	24-MAY-83	24-MAY-83	24-MAY-83	17-FEB-83
SAMPLE NUMBER:	10134	10135	10136	10072

Concentrations in microcuries/gram

A-133

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	6.40E-01	4.41E-02	3.50E-02	6.90E-03	3.32E-02	1.10E-02	2.60E-05	1.30E-06		
55-FE										
58-CO	4.52E-01	4.60E-02	1.54E-02	6.75E-03	2.87E-02	1.09E-02	5.04E-04	2.52E-05		
60-CO	5.60E+00	3.07E-01	2.41E-01	1.37E-02	3.08E-01	1.88E-02	1.80E-04	9.00E-06		
59-NI							9.01E-05	4.51E-06		
63-NI							1.51E-07	7.55E-09		
90-SR							4.64E-04	2.32E-05		
95-ZR	1.18E-01	4.23E-02								
94-NB										
99-TC										
106-RU	<1.4E-01		<1.8E-02		<3.0E-02		2.02E-04	1.01E-05		
110M-AG	1.23E+00	6.15E-02	3.94E-02	5.18E-03	6.28E-02	1.19E-02	1.10E-06	3.00E-07		
125-SB	<1.3E-01		<1.9E-02		<3.0E-02		7.90E-06	4.00E-06		
129-I										
134-CS	1.08E+01	5.40E-01	2.70E-01	1.40E-02	3.24E-01	1.62E-02	<2.4E-07			
135-CS										
137-CS	1.07E+01	5.35E-01	2.67E-01	1.33E-02	3.43E-01	1.95E-02	<2.0E-07			
141-GE	1.39E-01	3.97E-02	<2.1E-03		<3.2E-03		7.39E-05	3.70E-06	1.00E-06	2.00E-07
144-CE	<5.2E-02		<7.7E-03		<1.2E-02		1.18E-04	5.90E-06	8.20E-06	7.00E-07
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-FU	2.14E-04	1.07E-05	1.15E-05	1.50E-06	1.53E-05	7.65E-07	7.96E-08	3.98E-09	1.90E-08	2.00E-09
239-FU	1.66E-04	8.30E-06	4.83E-06	9.50E-07	8.00E-06	8.10E-07	6.53E-07	3.27E-08	1.20E-08	1.00E-09
241-FU										
241-AM	2.19E-05	1.80E-06	1.51E-06	6.50E-07	4.25E-06	8.30E-07	3.45E-07	2.20E-08	7.60E-07	1.40E-07
242-CM	2.02E-03	1.01E-04	1.38E-04	7.70E-06	2.22E-04	1.11E-05	9.40E-06	4.70E-07	4.13E-06	3.70E-07
244-CM	8.98E-05	4.49E-06	7.64E-06	1.50E-06	1.23E-05	1.40E-06	3.42E-07	2.20E-08	8.80E-08	4.60E-08

# RADIOACTIVE WASTE SAMPLE LISTING

S A I   D A T A B A S E

PLANT NAME:	SURRY	SURRY	SURRY	SURRY	SURRY
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-72	01-DEC-72	01-DEC-72	01-DEC-72	01-DEC-72
SAMPLE TYPE:	FILTER CARTRIDGE	FUEL POOL	FILTER CARTRIDGE	FILTER CARTRIDGE	FILTER
SAMPLE SUB-TYPE:	PRIMARY	SOLID	PRIMARY	PRIMARY	RADWASTE
SAMPLING DATE:	30-MAR-83	30-MAR-83	30-MAR-83	30-MAR-83	30-MAR-83
SAMPLE NUMBER:	10074	10075	10076	10077	10078

Concentrations in microcuries/gram

A-134

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	7.29E-01	5.40E-02	4.08E+00	2.04E-01	6.80E-02	1.00E-02	7.55E-01	5.90E-02	8.74E-05	6.10E-06
55-FE										
58-CO	5.09E+01	2.55E+00	1.21E+02	6.05E+00	9.48E-01	4.74E-02	3.67E+01	1.84E+00	2.20E-03	1.10E-04
60-CO	2.35E+01	1.17E+00	2.66E+01	1.33E+00	3.00E-01	1.00E-01	1.59E+01	7.95E-01	6.76E-04	3.38E-05
59-NI										
63-NI										
90-SR	1.20E-03	1.00E-04	1.46E-02	7.30E-04	1.80E-03	1.00E-04	6.64E-03	3.32E-04	1.20E-09	7.00E-11
95-ZR	4.60E-01	1.70E-01	3.48E+00	2.60E-01			6.02E-01	3.01E-02	6.80E-05	1.30E-05
94-NB										
99-TC										
106-RU	<2.1E-01		<4.6E-01		<6.6E-02		<2.3E-01		<2.5E-05	
110M-AG	<7.2E-02		<4.5E-02		<4.4E-03		<2.9E-02		<2.7E-06	
125-SB	<6.8E-01		5.50E-01	3.20E-01	<8.5E-02		<1.7E-01		<1.9E-05	
129-I										
134-CS	<2.4E-02		<5.3E-02		6.17E+00	3.50E-01	1.20E-01	7.00E-02	1.80E-05	8.00E-06
135-CS										
137-CS	<2.2E-02		<3.2E-01		8.64E+00	4.32E-01	<1.7E-01		1.10E-05	7.00E-06
141-CE	2.60E-01	4.00E-02	9.79E-01	8.90E-02	<6.8E-03		2.50E-01	5.00E-02	2.00E-05	5.00E-06
144-CE	5.50E-01	1.70E-01	2.05E+00	1.02E-01	<2.9E-02		9.70E-01	6.10E-01	7.20E-05	2.00E-05
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-FU	5.63E-04	2.81E-05	3.58E-03	1.79E-04	2.03E-05	1.60E-06	8.57E-04	4.28E-05	8.38E-08	4.19E-09
239-FU	4.55E-04	2.28E-05	2.76E-03	1.38E-04	<1.4E-05		6.58E-04	3.29E-05	6.35E-08	3.18E-09
241-FU										
241-AM	7.79E-04	5.30E-05	2.86E-03	2.10E-04	1.24E-02	6.20E-04	1.24E-03	1.10E-04	1.79E-07	1.10E-08
242-CM	3.30E-02	1.65E-03	1.63E-01	8.15E-03	1.03E-03	7.00E-05	4.12E-02	2.06E-03	7.05E-06	3.52E-07
244-CM	2.02E-03	1.01E-04	1.21E-02	6.05E-04	2.66E-03	1.33E-04	3.35E-03	2.00E-04	4.16E-07	2.08E-08

# RADIOACTIVE WASTE SAMPLE LISTING

## S A I D A T A B A S E

PLANT NAME:	GINNA	GINNA	GINNA	GINNA	GINNA
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-MAR-70	01-MAR-70	01-MAR-70	01-MAR-70	01-MAR-70
SAMPLE TYPE:	RESIN	RESIN	FUEL POOL	FUEL POOL	REACTOR COOLANT
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	LIGUID	LIGUID	LIGUID
SAMPLING DATE:	03-JUN-83	06-JUN-83	13-APR-83	13-APR-83	14-APR-83
SAMPLE NUMBER:	10108	10109	10110	10111	10112

Concentrations in microcuries/gram

A-135

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	2.94E-01	1.47E-02	1.55E-01	7.75E-03	1.56E-01	7.80E-03	1.45E-01	7.25E-03	5.26E-01	2.33E-02
14-C	2.15E-02	1.08E-03	4.06E-01	2.03E-02	1.13E-03	5.65E-05	1.31E-03	6.55E-05	1.07E-04	2.50E-05
54-MN	2.95E-01	7.50E-02	3.09E-01	1.60E-01	9.31E-04	1.60E-04	5.16E-04	2.10E-04	<6.9E-06	
55-FE										
58-CO	1.36E+00	8.60E-02	<6.2E-02		3.47E-02	1.74E-03	2.31E-02	1.15E-03	1.59E-03	7.95E-05
60-CO	2.86E+01	1.43E+00	2.12E+01	1.06E+00	2.66E-02	1.33E-03	1.76E-02	8.80E-04	7.53E-04	4.20E-05
59-NI	9.39E-02	5.80E-03	1.51E-01	4.60E-02	4.41E-04	1.80E-04	<5.1E-04		<4.8E-04	
63-NI	8.24E+00	4.12E-01	6.22E+00	3.11E-01	5.20E-03	2.60E-04	5.08E-03	2.54E-04	2.20E-04	9.00E-05
90-SR	1.35E-02	1.00E-03	1.14E-01	1.00E-02	2.16E-04	1.08E-05	7.49E-05	3.90E-06	7.40E-06	1.00E-06
95-ZR					6.23E-04	3.60E-04				
94-NB	<2.6E-05		<3.7E-03		<2.6E-03		<4.1E-03		<1.2E-03	
99-TC	5.44E-05	1.60E-05	<4.2E-05		<2.5E-05		<1.1E-05		<1.2E-05	
106-RU	<2.1E-01		<4.2E-01		<6.1E-04		<7.4E-04		<8.9E-05	
110M-AG	<4.0E-02		<8.7E-02		<8.6E-05		<1.1E-04		<1.0E-05	
125-SB	<1.9E-01		<3.5E-01		3.43E-03	4.40E-04	2.10E-03	2.10E-04	<4.8E-04	
129-I	9.91E-06	4.70E-06	<6.9E-05		<6.5E-06		<2.1E-06		<2.0E-05	
134-CS	4.32E+00	2.16E-01	1.34E+00	6.90E-02	1.37E-02	2.50E-03	8.93E-03	1.60E-03	4.08E-03	9.30E-04
135-CS										
137-CS	1.72E+01	8.60E-01	6.63E+00	3.31E-01	2.11E-02	1.06E-03	1.42E-02	7.10E-04	3.28E-03	1.64E-04
141-CE	<9.8E-06		<3.6E-05		1.87E-04	1.30E-05	1.56E-04	1.80E-05	<3.9E-06	
144-CE	8.87E-03	4.44E-04	<1.0E-03		2.27E-04	3.70E-05	1.74E-04	2.60E-05	<6.7E-06	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	6.63E-04	3.32E-05	3.22E-06	1.80E-07	5.06E-06	2.60E-07	3.72E-06	3.00E-07	2.67E-07	4.10E-08
239-PU	5.88E-04	2.94E-05	3.15E-06	1.70E-07	6.02E-06	3.01E-07	5.21E-06	3.70E-07	2.73E-07	4.20E-08
241-PU	5.23E-02	2.61E-03	4.03E-04	2.02E-05	7.31E-04	3.65E-05	5.78E-04	2.89E-05	4.47E-05	1.90E-05
241-AM	3.59E-04	1.80E-05	2.93E-06	1.70E-07	4.59E-06	2.40E-07	4.33E-06	3.70E-07	2.46E-07	5.90E-08
242-CM	1.08E-04	5.60E-06	9.56E-07	1.00E-07	9.09E-06	4.54E-07	8.35E-06	5.90E-07	6.78E-07	1.10E-07
244-CM	2.03E-04	1.01E-05	3.13E-06	1.80E-07	3.72E-06	2.10E-07	2.95E-05	1.47E-06	8.33E-08	3.40E-08

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	GINNA	GINNA	GINNA	GINNA	GINNA
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-MAR-70	01-MAR-83	01-MAR-70	01-MAR-70	01-MAR-70
SAMPLE TYPE:	RESIN	RESIN	FILTER CARTRIDGE	SMEAR	SMEAR
SAMPLE SUB-TYPE:	SECONDARY	PRIMARY	PRIMARY	PRIMARY	PRIMARY
SAMPLING DATE:	25-MAR-83	27-MAR-83	21-APR-83	19-APR-83	19-APR-83
SAMPLE NUMBER:	10113	10114	10115	10116	10117

Concentrations in microcuries/gram

A-136

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	5.29E-02	2.64E-03	1.64E-01	8.20E-03	3.04E-02	1.52E-03	<3.2E-04		<3.2E-04	
14-C	9.63E-03	6.30E-04	1.86E-01	9.30E-03	1.77E-01	8.85E-03	1.07E-03	2.40E-04	3.53E-03	3.30E-04
54-MN	3.04E-02	1.52E-03	<4.6E-02		1.99E+00	9.93E-02	4.40E-04	9.50E-05	5.72E-04	3.80E-05
55-FE										
58-CO	8.43E-03	1.30E-03	1.02E+00	1.80E-01	2.08E+00	1.04E-01	7.62E-03	3.81E-04	4.32E-03	2.16E-04
60-CO	6.28E-02	3.14E-03	2.61E+01	1.30E+00	1.91E+01	9.55E-01	1.52E-03	1.60E-04	1.94E-02	9.70E-04
59-NI	<9.9E-02		4.03E-02	1.50E-02	2.39E-02	7.60E-03	<5.3E-03		<5.7E-03	
63-NI	3.27E-02	9.00E-03	5.19E+00	2.59E-01	2.39E+00	1.19E-01	<1.2E-03		<1.1E-03	
90-SR	4.60E-04	5.00E-05	2.91E-02	1.46E-03	1.79E-02	1.00E-03	1.90E-04	3.00E-05	<3.0E-05	
95-ZR					1.14E+00	7.98E-02	8.12E-04	2.30E-04	8.92E-04	4.46E-05
94-NB	<2.9E-04		<2.8E-04		2.03E-03	2.03E-04	<1.6E-04		<2.4E-04	
99-TC	<2.8E-05		3.40E-03	1.00E-03	<5.3E-04		<2.0E-05		<6.4E-05	
106-RU	<2.2E-03				7.56E-01	5.00E-01	<9.7E-04		8.54E-04	2.30E-04
110M-AG	<3.8E-04		<7.0E-02		2.08E-01	1.70E-02	1.38E-04	9.00E-05	<1.9E-05	
125-SB	2.34E-03	1.30E-03	<3.6E-01		8.89E-01	2.20E-01			2.39E-04	9.60E-05
129-I	<2.9E-04		<2.4E-05		<6.3E-05		<5.3E-05		<5.4E-05	
134-CS	<2.0E-04		6.07E+00	3.03E-01	<1.8E-02		4.62E-04	5.80E-05	1.67E-04	2.20E-05
135-CS										
137-CS	2.54E-03	6.90E-04	2.59E+01	1.29E+00	<2.0E-02		2.11E-03	1.10E-04	1.00E-03	5.00E-05
141-CE	<4.8E-05		<7.9E-05		3.20E-03	1.80E-04	4.82E-04	1.30E-04	<5.5E-05	
144-CE	2.87E-04	1.70E-04	8.82E-03	4.41E-04	5.30E-01	2.65E-02	1.07E-03	2.50E-04	<1.0E-04	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	5.37E-06	9.80E-07	7.83E-04	3.91E-05	6.69E-03	3.34E-04	1.60E-05	1.40E-06	<5.0E-06	
239-PU	3.70E-06	8.10E-07	7.13E-04	3.56E-05	5.21E-03	2.61E-04	1.36E-05	1.30E-06	3.66E-06	5.10E-07
241-PU	5.47E-04	7.00E-05	8.30E-02	4.15E-03	8.65E-01	4.32E-02	2.22E-03	2.30E-04	7.13E-04	2.70E-04
241-AM	4.47E-06	9.00E-07	6.51E-04	3.26E-05	2.71E-03	1.39E-04	1.16E-05	1.10E-06	5.61E-06	2.80E-07
242-CM	3.63E-06	9.40E-07	3.18E-04	1.59E-05	2.81E-02	1.40E-03	5.29E-05	2.70E-06	2.18E-06	7.20E-07
244-CM	1.74E-06	5.60E-07	5.03E-04	2.52E-05	1.00E-02	5.00E-04	1.87E-05	1.40E-06	1.26E-06	4.90E-07

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	GINNA	MAINE YANKEE	MAINE YANKEE	MAINE YANKEE	MAINE YANKEE
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	SEACOAST	SEACOAST	SEACOAST	SEACOAST
START-UP DATE:	01-MAR-70	01-DEC-72	01-DEC-72	01-DEC-72	01-DEC-72
SAMPLE TYPE:	SMEAR	EVAPORATOR BOTTOMS	SMEAR	CRUD	REACTOR COOLANT
SAMPLE SUB-TYPE:	PRIMARY	SOLID	PRIMARY	PRIMARY	TOTAL
SAMPLING DATE:	19-APR-83	19-MAY-83	19-MAY-83	19-MAY-83	19-MAY-83
SAMPLE NUMBER:	10118	10138	10139	10140	10137

Concentrations in microcuries/gram

A-137

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<3.3E-04		7.30E-03	3.65E-04	<9.0E-04		1.05E-02	6.90E-04	9.58E-02	4.79E-03
14-C	1.34E-04	7.80E-05	2.54E-04	1.27E-05	4.41E-04	1.20E-04	5.32E-03	3.00E-04	8.52E-05	4.24E-06
54-MN	2.79E-03	2.80E-04	1.84E-03	9.90E-05	2.64E-03	3.10E-04	3.23E-02	2.20E-02	1.39E-05	8.27E-07
55-FE										
58-CO	4.87E-02	2.43E-03	1.30E-02	6.50E-04	9.42E-03	4.71E-04	<8.4E-03		9.17E-04	3.24E-05
60-CO	8.80E-02	4.40E-03	1.74E-02	8.70E-04	3.81E-02	1.90E-03	1.60E+00	8.00E-02	5.74E-05	2.13E-06
59-NI	<7.4E-03		3.11E-04	2.20E-05	<3.4E-03		5.04E-02	2.52E-03	3.89E-07	1.90E-07
63-NI	2.93E-03	5.90E-04	1.94E-02	9.70E-04	9.73E-02	4.87E-03	3.00E+00	1.50E-01	1.79E-05	9.03E-07
90-SR	7.30E-05	2.60E-05	2.02E-05	1.01E-06	1.08E-04	3.50E-05	2.32E-04	2.50E-05	4.12E-07	6.70E-08
95-ZR	8.37E-04	2.00E-04			6.47E-04	4.30E-04			2.20E-05	4.30E-06
94-NB	<5.3E-04		<1.4E-06		<1.2E-04		<1.1E-04		<2.6E-07	
99-TC	<2.0E-05		<9.2E-07		<1.8E-04		<4.4E-04		3.30E-06	1.10E-06
106-RU	<6.0E-04		<2.0E-04		<6.5E-04		<5.7E-02		<4.1E-06	
110M-AG	<1.4E-04		2.94E-04	1.30E-04	1.07E-03	2.20E-04	<1.1E-02		2.21E-06	3.40E-07
125-SB			1.43E-03	1.00E-04	1.04E-02	1.50E-03				
129-I	<3.5E-05		<7.9E-06		<1.8E-05		<4.3E-05		<5.8E-06	
134-CS	<6.9E-05		1.48E-03	1.50E-04	4.89E-03	6.60E-04	<1.3E-01		3.53E-05	6.00E-06
135-CS										
137-CS	<6.8E-05		1.72E-02	8.60E-04	4.65E-02	2.33E-03	4.44E-01	2.90E-02	3.18E-04	1.59E-05
141-CE	1.26E-03	2.10E-04	3.80E-06	1.10E-06	<5.3E-05		<3.5E-05		5.50E-07	2.61E-07
144-CE	5.59E-04	3.50E-04	6.50E-05	3.40E-06	<8.9E-05		5.52E-03	3.70E-04	1.47E-07	4.50E-08
152-EU										
154-EU										
155-EU										
235-U			<1.4E-07		<1.8E-05		<9.5E-06		<1.2E-08	
238-U			<9.0E-09		<5.3E-06		<6.4E-07		<3.2E-09	
238-PU	1.24E-05	1.40E-06	4.11E-07	2.06E-08	2.87E-06	5.20E-07	5.53E-05	3.20E-06	2.83E-08	1.43E-09
239-PU	7.31E-06	1.10E-06	5.62E-07	2.81E-08	2.26E-06	4.60E-07	1.04E-04	5.20E-06	2.24E-08	1.14E-09
241-PU	1.29E-03	2.70E-04	5.09E-04	2.54E-05	5.25E-04	5.90E-05	8.70E-03	4.35E-04	4.34E-06	1.99E-07
241-AM	1.03E-05	1.40E-06	3.31E-07	1.90E-08	4.93E-06	7.60E-07	6.54E-05	3.27E-06	3.53E-08	1.75E-09
242-CM	6.54E-06	1.20E-06	9.22E-07	4.61E-08	2.08E-06	5.30E-07	6.93E-06	1.00E-06	6.88E-09	5.59E-10
244-CM	4.21E-06	9.00E-07	1.92E-07	1.40E-08	1.81E-06	4.60E-07	1.11E-05	1.20E-06	8.89E-09	5.19E-10

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	MCQUIRE	MCQUIRE	MCQUIRE	MCQUIRE	MCQUIRE
UNIT NUMBER:	1	2	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-DEC-81	01-JUN-83	01-DEC-81	01-DEC-81	01-DEC-81
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	FUEL POOL	RESIN	EVAPORATOR BOTTOMS
SAMPLE SUB-TYPE:	LIQUID	LIQUID	LIQUID	PRIMARY	PRIMARY
SAMPLING DATE:	14-JUN-83	14-JUN-83	14-JUN-83	14-JUN-83	14-JUN-83
SAMPLE NUMBER:	10149	10150	10151	10152	10153

Concentrations in microcuries/gram

A-138

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	9.72E-02	4.86E-03	3.99E-02	2.00E-03	5.69E-02	2.85E-03	<1.5E-05		5.34E-02	2.67E-03
14-C	4.60E-05	3.00E-06	1.20E-05	2.00E-06	<2.3E-06		8.50E-04	3.80E-04	1.20E-05	2.00E-06
54-MN	5.30E-05	2.65E-06	5.74E-06	3.80E-07	4.84E-06	2.42E-07	9.72E-03	3.40E-04	2.79E-04	1.39E-05
55-FE										
58-CO	1.30E-04	6.50E-06	2.39E-05	1.19E-06	2.50E-05	1.25E-06	1.36E-01	9.10E-03	1.60E-03	8.00E-05
60-CO	5.10E-05	2.55E-06	5.42E-07	8.70E-08	1.57E-05	7.85E-07	8.38E-02	4.19E-03	1.41E-03	7.05E-05
59-NI	<5.7E-06		<6.0E-06		<5.8E-06		<6.9E-03		<2.7E-05	
63-NI	1.20E-06	3.00E-07	<5.0E-07		<2.4E-07		3.00E-02	1.50E-03	4.50E-05	2.25E-06
90-SR	2.40E-07	7.00E-08	1.90E-07	9.50E-09	<8.1E-08		<1.2E-04		<2.7E-07	
95-ZR	2.50E-06	1.00E-06	<6.7E-08		1.49E-06	5.90E-07	1.12E-03	3.40E-04	8.20E-05	4.20E-05
94-NB	<6.5E-07		<7.5E-07		<7.3E-07		<1.0E-03		<1.1E-06	
99-TC	<2.6E-07		<5.9E-07		<2.9E-07		<1.1E-04		<1.1E-04	
106-RU	<3.0E-06		<8.7E-07		<2.3E-07		<1.1E-03		<1.8E-05	
110M-AG	<3.0E-07		<9.1E-08		3.65E-06	3.50E-07	6.39E-04	3.70E-05	5.30E-05	1.10E-05
125-SB	<2.6E-06		<7.4E-07		1.19E-06	1.20E-07	<7.8E-04		9.90E-05	1.90E-05
129-I	<2.2E-05		<1.7E-07		<8.6E-08		<1.2E-05		<3.0E-07	
134-CS	4.00E-05	2.00E-06	<9.5E-08		<4.3E-08		<1.3E-04		1.87E-05	6.50E-06
135-CS										
137-CS	9.40E-05	4.70E-06	<8.3E-08		<2.9E-08		<5.1E-04		<2.5E-06	
141-CE	<7.0E-07		<1.6E-07		<2.6E-08		<8.7E-05		<1.7E-06	
144-CE	<3.0E-06		<6.8E-07		<9.8E-08		<3.2E-04		<6.7E-06	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	8.70E-09	9.00E-10	6.20E-09	1.00E-09	<6.0E-09		8.50E-05	6.00E-06	2.60E-07	1.40E-08
239-PU	1.30E-08	1.00E-09	3.70E-09	7.00E-10	5.70E-09	1.30E-09	5.30E-05	5.00E-06	6.30E-08	6.00E-09
241-PU	1.70E-06	2.00E-07	2.70E-06	3.00E-07	9.60E-07	2.40E-07	1.07E-02	7.00E-04	5.90E-05	2.90E-05
241-AM	5.70E-09	1.10E-09	3.70E-09	1.10E-09	5.30E-09	2.00E-09	6.80E-06	2.60E-06	1.40E-08	4.00E-09
242-CM	1.60E-08	2.00E-09	5.20E-09	1.30E-09	<9.2E-10		<1.5E-06		6.40E-08	9.00E-09
244-CM	4.20E-09	9.00E-10	2.00E-09	8.00E-10	6.20E-09	2.10E-09	4.50E-06	2.30E-06	2.00E-08	5.00E-09



# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	OCONEE	OCONEE	OCONEE	OCONEE	OCONEE
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-JUL-73	01-JUL-73	01-JUL-73	01-JUL-73	01-JUL-73
SAMPLE TYPE:	EVAPORATOR BOTTOMS	FILTER SLUDGE	RESIN	REACTOR COOLANT	FILTER CARTRIDGE
SAMPLE SUB-TYPE:	LIQUID	PRIMARY	PRIMARY	LIQUID	FUEL POOL
SAMPLING DATE:	25-APR-83	14-MAY-83	23-MAY-83	23-MAY-83	31-MAY-83
SAMPLE NUMBER:	10155	10156	10157	10158	10159

Concentrations in microcuries/gram

A-139

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<2.4E-05		<8.5E-06		4.30E-03	1.20E-03	2.47E-01	1.24E-02	1.40E-02	2.00E-03
14-C	1.80E-04	1.40E-05	<7.8E-06		8.47E-03	4.90E-04	<1.2E-05		2.74E-01	1.37E-02
54-MN	6.23E-04	5.50E-05	1.30E-06	3.00E-07	3.75E-02	3.40E-03	3.99E-04	1.99E-05	7.19E+00	3.59E-01
55-FE										
58-CD	4.63E-03	2.32E-04	5.40E-06	6.00E-07	2.23E-01	7.00E-02	1.72E-02	1.00E-03	1.10E+00	1.00E-01
60-CD	1.30E-03	5.00E-04	1.10E-06	3.00E-07	2.40E-01	4.00E-02	3.20E-04	8.00E-05	4.81E+01	2.40E+00
59-NI										
63-NI	1.97E-03	9.85E-05	1.20E-05	5.00E-06	1.05E+00	5.00E-01	3.06E-04	1.53E-05	5.64E+01	2.82E+00
90-SR	5.28E-05	2.64E-06	6.50E-06	1.10E-06	7.17E-03	3.58E-04	1.10E-06	3.00E-07	2.06E-02	1.00E-02
95-ZR	<6.7E-05		<2.2E-07		<2.4E-03		2.90E-04	3.00E-05	<7.5E-02	
94-NB										
99-TC	1.70E-05	1.10E-05	<1.9E-05		<4.1E-04		<1.3E-06		<1.9E-04	
106-RU	<3.1E-04		<1.6E-06		<1.8E-02		<1.0E-04		<2.9E-01	
110M-AG	2.10E-04	4.00E-05			6.57E-03	3.28E-04	7.90E-05	1.0E-05	9.74E+00	7.10E-01
125-SB	<3.7E-04		<2.1E-06		<2.3E-02		<8.9E-05		2.01E+00	8.00E-01
129-I	<4.7E-07		<7.9E-06		<5.6E-05		<4.7E-07		<1.1E-04	
134-CS	5.31E-02	2.80E-03	6.49E-05	3.25E-06	2.09E+00	1.05E-01	4.54E-03	2.27E-04	4.60E-01	1.20E-01
135-CS										
137-CS	9.22E-02	4.61E-03	1.77E-04	8.85E-06	4.44E+00	2.22E-01	8.16E-03	4.08E-04	<4.8E-02	
141-CE	<5.5E-05		<6.8E-07		<4.6E-04		<4.0E-06		<3.7E-03	
144-CE	<3.0E-05		<1.2E-06		<5.3E-04		<5.3E-06		3.20E-01	7.00E-02
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	1.60E-07	2.00E-08	1.10E-07	2.00E-08	2.62E-05	2.30E-06	<8.9E-08		6.75E-03	3.40E-04
239-PU	1.10E-07	1.00E-08	4.70E-08	1.30E-08	1.00E-05	1.00E-06	<2.4E-08		3.53E-03	1.77E-04
241-PU	4.60E-05	6.00E-06	6.40E-05	9.00E-06	3.70E-03	8.00E-04	9.60E-06	1.90E-06	2.24E-01	1.12E-02
241-AM	9.00E-08	4.60E-08	<4.7E-07		5.20E-06	3.10E-06	3.40E-07	1.40E-07	2.00E-03	4.00E-04
242-CM	1.60E-07	8.00E-08	9.10E-07	5.00E-07	<6.0E-06		2.80E-07	1.40E-07	1.00E-03	3.00E-04
244-CM	1.40E-07	6.00E-08	1.00E-06	5.00E-07	5.20E-06	3.10E-06	2.10E-07	1.10E-07	7.50E-04	2.20E-04

# RADIOACTIVE WASTE SAMPLE LISTING

SAI DATABASE

PLANT NAME:	OCONEE	OYSTER CREEK	BRUNSWICK	BRUNSWICK	BRUNSWICK
UNIT NUMBER:	1	1	2	1	1
PLANT TYPE:	PWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	SEACOAST	SEACOAST	SEACOAST	SEACOAST
START-UP DATE:	01-JUL-73	01-DEC-69	01-NOV-75	01-MAR-77	01-MAR-77
SAMPLE TYPE:	SMEAR	RESIN	REACTOR COOLANT	REACTOR COOLANT	RESIN
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	LIQUID	LIQUID	PRIMARY
SAMPLING DATE:	23-MAY-83	22-JUN-83	28-JUN-83	22-JUN-83	28-JUN-83
SAMPLE NUMBER:	10161	10168	10162	10163	10164

Concentrations in microcuries/gram

A-140

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<4.9E-03				4.88E-02	2.44E-03	2.22E-02	1.11E-03	1.30E-03	3.00E-04
14-C	5.30E-04	1.70E-04			1.27E-04	1.30E-05	<6.3E-06		<7.0E-04	
54-MN	3.13E-03	2.80E-04	5.32E-01	9.40E-02	8.94E-03	9.00E-04	1.20E-04	6.00E-06	2.74E-02	1.37E-03
55-FE					<8.0E-06		1.70E-04	1.50E-05	1.14E-03	1.10E-04
58-CO	6.52E-03	3.90E-04	<3.1E-02		1.51E-02	2.00E-03	7.10E-06	1.30E-06	6.70E-03	8.00E-04
60-CO	5.95E-02	2.98E-03	2.24E+01	1.12E+00	3.72E-02	1.86E-03	2.77E-04	1.38E-05	1.09E-01	2.00E-02
59-NI					<2.4E-05		<4.2E-05		<9.9E-04	
63-NI	2.63E-04	2.40E-05			5.30E-04	1.90E-04	<6.6E-06		4.23E-03	2.11E-04
90-SR	1.40E-03	3.00E-04	8.34E-02	4.17E-03	6.76E-06	4.60E-07	9.90E-07	2.70E-07	2.08E-04	1.90E-05
95-ZR	<1.5E-04		<3.2E-02		<5.3E-05		<4.6E-07		<2.3E-04	
94-NB					<6.4E-06		<3.2E-06		<1.1E-04	
99-TC	<1.1E-03				<2.7E-05		<6.5E-07		<7.6E-06	
106-RU	<4.9E-03		<2.2E-01		<2.6E-04		<3.7E-06		<2.0E-03	
110M-AG	1.60E-03	3.00E-04			<4.9E-05		3.70E-06	9.00E-07	<3.5E-04	
125-SB	<1.9E-03		<1.7E-01		<1.7E-04		<2.4E-06		<1.7E-03	
129-I	<4.8E-06				<3.4E-06		<9.3E-07		2.30E-06	1.20E-06
134-CS	2.21E-02	1.11E-03	<2.2E-02		<2.6E-05		<3.6E-07		3.14E-02	1.57E-03
135-CS										
137-CS	9.05E-02	4.53E-03	3.21E-01	7.80E-02	<2.8E-05		4.90E-06	1.30E-06	5.92E-02	2.96E-03
141-CE	<1.3E-04		<1.8E-02		1.70E-05	3.00E-06	<2.7E-07		<1.7E-04	
144-CE	<2.5E-04		<6.7E-02		9.30E-06	5.30E-06	<9.9E-07		<6.2E-04	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	3.10E-05	5.00E-06	8.60E-04	4.30E-05	1.55E-07	2.50E-08	3.90E-08	1.40E-08	<8.9E-06	
239-PU	7.40E-06	2.60E-06	2.68E-04	1.40E-05	6.09E-08	1.60E-08	<2.2E-08		1.52E-06	3.00E-07
241-PU	9.40E-03	3.10E-03								
241-AM	1.40E-04	9.00E-05	1.45E-04	2.50E-05	3.60E-08	1.50E-08	<6.7E-07		<3.6E-06	
242-CM	3.40E-04	1.60E-04	1.32E-04	2.50E-05	1.11E-07	2.80E-08	<2.9E-07		<7.6E-06	
244-CM	<7.0E-06		2.38E-04	3.30E-05	1.57E-08	9.90E-09	8.80E-07	4.40E-07	<9.7E-06	

# RADIOACTIVE WASTE SAMPLE LISTING

SAI DATABASE

PLANT NAME:	BRUNSWICK	BRUNSWICK	BRUNSWICK	MCQUIRE	MCQUIRE
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	BWR	BWR	BWR	PWR	PWR
PLANT LOCATION:	SEACOAST	SEACOAST	SEACOAST	INLAND	INLAND
START-UP DATE:	01-MAR-77	01-MAR-77	01-NOV-75	01-DEC-81	01-DEC-81
SAMPLE TYPE:	DRY ACTIVE WASTE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE
SAMPLE SUB-TYPE:	SMEAR	PRIMARY	PRIMARY	LIQUID	LIQUID
SAMPLING DATE:	28-JUN-83	28-JUN-83	28-JUN-83	24-JUN-83	21-JUN-83
SAMPLE NUMBER:	10165	10166	10167	10169	10170

Concentrations in microcuries/gram

A-141

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<1.1E-03		2.30E-03	1.20E-03	6.40E-03	1.40E-03	1.45E-02	7.25E-04	5.10E-05	9.00E-06
14-C	<8.0E-04		<3.9E-04		<4.2E-04		7.60E-06	4.00E-06	<5.7E-06	
54-MN	4.78E-02	2.39E-03	4.75E+00	2.37E-01	2.59E+00	1.30E-01	4.21E-05	3.40E-06	4.09E-07	3.90E-08
55-FE	3.42E-01	1.71E-02	1.76E+01	9.00E-01	4.23E+01	2.12E+00				
58-CO	2.70E-03	4.00E-04	2.48E+00	1.24E-01	1.38E+00	6.90E-02	2.45E-03	1.23E-04	1.63E-06	8.15E-08
60-CO	1.73E-01	8.65E-03	1.64E+01	8.20E-01	9.00E+00	4.50E-01	5.00E-04	2.50E-05	1.50E-06	7.50E-08
59-NI	<7.1E-03		4.13E-03	9.90E-04	5.30E-03	3.20E-03	<4.3E-06		<5.0E-06	
63-NI	5.64E-04	2.82E-05	3.45E-01	1.72E-02	6.05E-01	3.02E-02	3.97E-05	2.00E-06	1.00E-06	4.00E-07
90-SR	4.90E-04	6.00E-05	2.31E-02	1.15E-03	3.86E-02	1.93E-03	2.50E-07	5.00E-08	7.36E-07	6.00E-08
95-ZR	<1.1E-04		<1.4E-02		<1.0E-02		<1.4E-06		<1.3E-08	
94-NB	<1.0E-03		<1.3E-03		<4.0E-03		<5.3E-07		<2.3E-07	
99-TC	<3.7E-05		<3.2E-04		<8.0E-04		<6.3E-09		<1.6E-08	
106-RU	<1.0E-03		<1.2E-01		<8.3E-02		<1.6E-05		<1.0E-07	
110M-AG			1.19E-01	8.00E-03	9.40E-02	1.80E-02	<1.6E-06		<1.1E-08	
125-SB	<7.7E-04		<8.4E-02		<6.2E-02		<1.3E-05		<8.1E-08	
129-I	<6.7E-05		<2.0E-04		<4.5E-04		<3.7E-08		<3.6E-08	
134-CS	1.27E-02	6.35E-04	1.40E-01	2.00E-02	5.71E-02	4.80E-03	<7.0E-05		<8.5E-08	
135-CS										
137-CS	2.37E-02	1.18E-03	3.40E-01	4.00E-02	2.40E-01	3.00E-02	<1.6E-06		<1.2E-08	
141-CE	<7.4E-03		2.75E-02	1.40E-03	<7.3E-03		<1.8E-06		<1.6E-08	
144-CE	<3.1E-04		1.20E-02	1.00E-03	<2.7E-02		<6.9E-06		<5.2E-07	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	<2.0E-05		1.98E-05	1.00E-06	1.62E-04	8.10E-06	2.10E-09	4.00E-10	1.10E-08	1.00E-09
239-PU	7.60E-06	1.10E-06	2.53E-05	1.30E-06	2.08E-04	1.04E-05	1.30E-09	3.00E-10	2.50E-09	6.00E-10
241-PU										
241-AM	8.00E-06	3.80E-06	1.21E-05	1.10E-06	1.79E-05	9.50E-06	<8.8E-10		1.70E-09	7.00E-10
242-CM	1.50E-05	6.00E-06	3.39E-04	1.70E-05	1.48E-03	1.00E-04	1.30E-09	6.00E-10	<1.1E-09	
244-CM	5.60E-06	3.20E-06	<2.3E-05		8.30E-05	2.10E-05	2.80E-09	8.00E-10	<7.7E-10	

# RADIOACTIVE WASTE SAMPLE LISTING

S A I   D A T A B A S E

PLANT NAME:	H. B. ROBINSON	H. B. ROBINSON	H. B. ROBINSON	H. B. ROBINSON
UNIT NUMBER:	2	2	2	2
PLANT TYPE:	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-MAR-71	01-MAR-71	01-MAR-71	01-MAR-71
SAMPLE TYPE:	FUEL POOL	REACTOR COOLANT	FUEL POOL	EVAPORATOR BOTTOMS
SAMPLE SUB-TYPE:	LIQUID	TOTAL	SOLID	SOLID
SAMPLING DATE:	09-JUN-83	08-JUN-83	10-JUN-83	22-APR-83
SAMPLE NUMBER:	10172	10171	10174	10175

Concentrations in microcuries/gram

A-142

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	3.73E-03	1.90E-04	4.14E-02	2.10E-03			1.82E-02	9.10E-04	4.47E-03	2.23E-04
14-C	<3.4E-06		1.50E-05	3.00E-06			4.50E-05	6.00E-06	4.30E-05	7.00E-06
54-MN	<4.9E-08		4.00E-07	1.00E-07	4.10E-08	2.60E-08	5.10E-05	1.60E-05	4.10E-05	1.40E-05
55-FE										
58-CO	7.70E-07	2.20E-07	4.41E-04	1.57E-05	7.96E-07	4.40E-08	1.24E-02	6.20E-04	9.29E-03	4.64E-04
60-CO	1.67E-05	8.35E-07	2.11E-05	4.04E-06	4.56E-06	2.30E-07	2.06E-03	1.03E-04	1.85E-03	9.25E-05
59-NI										
63-NI	9.90E-06	1.00E-06	5.40E-06	9.00E-07			5.63E-04	2.81E-05	8.46E-04	4.23E-05
90-SR	6.70E-07	8.00E-08	2.20E-07	8.00E-08			2.90E-04	7.00E-05	4.00E-04	5.00E-05
95-ZR	<1.1E-07		1.67E-05	4.62E-06	1.30E-07	4.00E-08	1.70E-04	7.00E-05	1.20E-04	3.00E-05
94-NB										
99-TC	<5.0E-07		<9.1E-08				<4.6E-06		<4.9E-06	
106-RU	<4.6E-07		<7.2E-06		<9.7E-08		<6.1E-05		<6.2E-05	
110M-AG	1.85E-06	9.25E-08	3.55E-06	5.08E-07	<3.6E-08		1.38E-04	7.00E-06	1.40E-04	1.40E-05
125-SB	5.05E-06	2.53E-07	<8.4E-06				5.34E-04	2.67E-05	1.90E-04	3.00E-05
129-I	<1.9E-08		<9.0E-08				<4.0E-07		<8.9E-07	
134-CS	1.00E-06	2.00E-07	7.57E-04	3.79E-05	<6.3E-09		4.53E-04	2.26E-05	6.88E-04	3.44E-05
135-CS										
137-CS	1.22E-05	6.10E-07	9.56E-04	4.78E-05	<6.8E-09		9.06E-04	4.53E-05	9.55E-04	4.77E-05
141-CE	<9.8E-08		<1.9E-06		<1.1E-08		<1.9E-05		<1.2E-05	
144-CE	<2.6E-07		<4.8E-06		<1.2E-08		<1.3E-05		<1.9E-05	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU			1.40E-10	3.00E-11	1.80E-10	3.00E-11	1.50E-06	2.00E-07	6.70E-07	6.00E-08
239-PU			7.00E-11	2.20E-11	7.50E-11	2.30E-11	3.50E-07	8.00E-08	1.30E-07	3.00E-08
241-PU			9.50E-08	1.10E-08	6.80E-08	1.40E-08	1.49E-04	3.00E-05	5.49E-05	1.10E-05
241-AM			1.10E-10	5.00E-11	1.60E-10	3.00E-11	1.70E-07	5.00E-08	3.34E-06	2.00E-07
242-CM			1.10E-09	2.00E-10	1.60E-10	4.00E-11	6.70E-08	3.80E-08	8.50E-08	4.00E-08
244-CM					1.60E-10	3.00E-11	6.10E-08	2.90E-08	4.20E-07	8.00E-08

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	H. B. ROBINSON	H. B. ROBINSON	DCONEE	DCONEE	VERMONT YANKEE
UNIT NUMBER:	2	2	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-MAR-71	01-MAR-71	01-JUL-73	01-JUL-73	1-NOV-72
SAMPLE TYPE:	EVAPORATOR BOTTOMS	DRY ACTIVE WASTE	DRY ACTIVE WASTE	FILTER SLUDGE	RESIN
SAMPLE SUB-TYPE:	SOLID	SMEAR	NOP HEAD	SECONDARY	SECONDARY
SAMPLING DATE:	22-APR-83	09-JUN-83	31-MAY-83	14-MAY-83	19-JUL-83
SAMPLE NUMBER:	10177	10178	10160	10156	10186

Concentrations in microcuries/gram

A-143

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	1.92E-02	1.00E-03	<1.8E-03		1.90E-04	6.00E-05	<8.5E-06		3.70E-03	1.90E-04
14-C	9.20E-05	1.00E-05	2.70E-03	3.00E-04	1.80E-05	1.00E-05	<7.8E-06		5.50E-04	2.30E-04
54-MN	2.90E-05	1.30E-05	3.86E-02	3.70E-03	4.85E-04	4.80E-05	1.30E-06	3.00E-07	7.45E-02	3.72E-03
55-FE										
58-CO	<6.5E-05		1.06E+00	5.30E-02	7.98E-04	6.40E-05	5.40E-06	6.00E-07	2.22E-02	2.40E-03
60-CO	1.76E-03	9.00E-04	1.67E+00	8.35E-02	2.60E-03	5.00E-04	1.10E-06	3.00E-07	7.29E-01	3.64E-02
59-NI									1.50E-03	5.00E-04
63-NI	5.71E-04	2.80E-04	6.11E-03	3.10E-04	3.23E-03	1.61E-04	1.20E-05	5.00E-06	5.75E-03	4.00E-04
90-SR	<6.7E-05		<8.3E-05		6.30E-05	7.00E-06	6.50E-06	1.10E-06	9.80E-05	2.60E-05
95-ZR	4.40E-05	1.90E-05	8.20E-02	1.00E-02	<2.8E-05		<2.2E-07		6.90E-03	2.70E-03
94-NB									<1.4E-04	
99-TC	<1.1E-05				<2.0E-05		<1.9E-05		<3.3E-06	
106-RU	<5.5E-05		<6.2E-03		<1.8E-04		<1.6E-06		<4.5E-03	
110M-AG	7.50E-05	2.00E-05	1.83E-02	9.15E-04	8.92E-04	4.46E-05			<9.7E-04	
125-SB	4.22E-04	3.10E-05	1.50E-02	6.00E-03	<2.1E-04		<2.1E-06		<3.5E-03	
129-I	<8.7E-07		<1.6E-05		<5.2E-06		<7.9E-06		<2.0E-05	
134-CS	4.27E-04	1.90E-04	<7.3E-04		<3.6E-02		6.49E-05	3.25E-06	1.35E-02	1.20E-03
135-CS										
137-CS	8.65E-04	4.32E-05	<6.5E-04		9.62E-02	4.81E-03	1.77E-04	8.85E-06	1.08E-01	5.40E-03
141-CE	<2.2E-05		<2.3E-04		<3.2E-05		<6.8E-07		<4.5E-05	
144-CE	<1.2E-05		<2.7E-04		<7.9E-05		<1.2E-06		<9.8E-05	
152-EU										
154-EU										
155-EU										
235-U									<5.6E-10	
238-U									<4.1E-10	
238-PU	<9.3E-07		1.54E-05	1.50E-06	<2.2E-05		1.10E-07	2.00E-08	2.20E-06	7.00E-07
239-PU	1.00E-07	4.00E-08	1.20E-05	1.00E-06	<7.6E-06		4.70E-08	1.30E-08	5.40E-06	1.10E-06
241-PU	1.00E-04	3.00E-05	3.35E-03	6.70E-04	3.10E-04	5.00E-05	6.40E-05	9.00E-06	6.80E-04	1.70E-04
241-AM	<1.6E-07		1.40E-05	2.00E-06	8.40E-07	1.20E-07	<4.7E-07		5.20E-07	3.00E-07
242-CM	<9.5E-08		2.00E-05	2.00E-06	4.40E-07	1.00E-07	9.10E-07	5.00E-07	<4.0E-07	
244-CM	1.30E-07	8.00E-08	1.10E-05	1.00E-06	8.00E-07	1.10E-07	1.00E-06	5.00E-07	<2.1E-07	

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	VERMONT YANKEE	VERMONT YANKEE	VERMONT YANKEE	NUCLEAR ONE	NUCLEAR ONE
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	BWR	BWR	BWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	01-NOV-72	1-NOV-72	1-NOV-72	1-DEC-74	1-DEC-74
SAMPLE TYPE:	REACTOR COOLANT	RESIN	DRY ACTIVE WASTE	RESIN	RESIN
SAMPLE SUB-TYPE:	TOTAL	PRIMARY	PRIMARY	PRIMARY	PRIMARY
SAMPLING DATE:	27-JUN-83	17-JUL-83	17-JUL-83	14-JUL-83	09-MAY-83
SAMPLE NUMBER:	10185	10188	10189	10207	10208

Concentrations in microcuries/gram

A-14A

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	6.26E-03	3.13E-04	<1.1E-03		<4.3E-04		7.70E-03	8.47E-04	6.10E-04	3.48E-04
14-C	<2.4E-06		<3.3E-04		<2.2E-04		1.37E-03	6.85E-05	4.30E-04	2.58E-05
54-MN	3.44E-05	1.92E-06	1.54E+01	8.00E-01	9.33E-03	4.70E-04	1.34E-01	6.68E-03	6.70E-02	3.35E-03
55-FE										
58-CO	9.90E-05	4.44E-06	3.53E+00	2.60E-01	1.45E-03	3.70E-04	4.92E-01	2.46E-02	1.17E-01	5.87E-03
60-CO	2.21E-04	8.11E-06	6.13E+01	3.10E+00	1.10E-01	6.00E-03	1.18E+00	5.90E-02	2.34E-01	1.64E-02
59-NI	5.00E-07	1.20E-07	2.40E-02	6.00E-03	<6.2E-03		4.05E-02	2.03E-03	4.39E-03	3.51E-04
63-NI	7.15E-07	4.30E-08	2.15E-01	1.10E-02	<2.5E-03		1.12E+00	5.60E-02	2.19E-01	1.09E-02
90-SR	1.70E-07	1.10E-07	5.46E-02	3.30E-03	<2.6E-04		1.08E+00	3.42E-02	8.28E-03	4.14E-04
95-ZR	1.67E-05	1.63E-06	1.18E+00	2.20E-01	1.11E-03	5.80E-04				
94-NB	<2.8E-07		<5.4E-04		<6.9E-04		<6.8E-05		<3.3E-05	
99-TC	<6.5E-07		<3.1E-04		<8.7E-05		<4.7E-05		3.30E-04	1.58E-04
106-RU	<2.5E-06		<6.1E-01		<8.4E-04		<1.8E-02		<1.4E-02	
110M-AG	2.31E-06	1.06E-07	<1.2E-01		<1.7E-04		<1.9E-03		<9.4E-03	
125-SB	7.64E-07	7.70E-08	<4.2E-01		<7.5E-04		8.00E-02	2.56E-02	6.29E-02	1.89E-02
129-I	<8.1E-08		<1.8E-05		<4.9E-05		<8.2E-06		<1.2E-05	
134-CS	<2.8E-07		<6.0E-02		8.78E-03	5.20E-04	3.55E+00	1.78E-01	2.36E+00	1.18E-01
135-CS										
137-CB	<2.7E-07		<6.9E-02		5.42E-02	2.71E-03	1.07E+01	5.35E-01	4.45E+00	2.22E-01
141-CE	2.65E-06	1.11E-06	4.40E-03	1.70E-03	<1.4E-03		<2.3E-04		<3.5E-04	
144-CE	<8.6E-07		3.20E-02	7.00E-03	<3.0E-03		6.90E-03	1.10E-03	2.86E-02	1.43E-03
152-EU										
154-EU										
155-EU										
235-U	<9.3E-10		<4.1E-06		<6.0E-06					
238-U	<3.7E-10		<1.0E-06		<3.3E-06					
238-Pu	3.81E-09	1.10E-09	1.90E-05	3.00E-06	5.24E-05	3.70E-06	9.87E-05	5.92E-06	5.13E-05	2.56E-06
239-Pu	8.84E-09	1.70E-09	4.20E-05	5.00E-06	4.90E-06	1.10E-06	7.70E-05	4.62E-06	6.36E-05	3.18E-06
241-Pu	9.59E-07	2.60E-07	5.50E-03	1.20E-03	1.60E-03	4.00E-04	7.60E-03	3.80E-04	8.93E-03	4.47E-04
241-AM	1.06E-09	4.75E-10	4.80E-05	8.00E-06	1.40E-05	2.00E-06	3.47E-05	3.47E-06	1.36E-05	1.63E-06
242-CM	3.80E-10	1.00E-10	2.56E-04	7.00E-05	<1.5E-06		4.66E-05	4.66E-06	8.62E-05	6.03E-06
244-CM	5.70E-11	3.60E-11	1.18E-04	1.20E-05	2.60E-05	1.00E-06	2.30E-05	2.77E-06	6.57E-06	1.12E-06

# RADIOACTIVE WASTE SAMPLE LISTING

## S A I D A T A B A S E

PLANT NAME:	NUCLEAR ONE	NUCLEAR ONE	NUCLEAR ONE	NUCLEAR ONE	NUCLEAR ONE
UNIT NUMBER:	1	1	2	1	2
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-DEC-74	1-DEC-74	1-MAR-80	1-DEC-74	1-MAR-80
SAMPLE TYPE:	RESIN	REACTOR COOLANT	REACTOR COOLANT	DRY ACTIVE WASTE	DRY ACTIVE WASTE
SAMPLE SUB-TYPE:	PRIMARY	TOTAL	TOTAL	SMEAR	SMEAR
SAMPLING DATE:	11-MAY-83	18-JUL-83	18-JUL-83	25-JUL-83	25-JUL-83
SAMPLE NUMBER:	10209	10206	10205	10212	10213

Concentrations in microcuries/gram

A-145

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	7.00E-02	3.50E-03	4.56E-02	2.28E-03	6.61E-02	3.31E-03	<1.4E-03		<1.3E-03	
14-C	3.90E-03	1.95E-04	1.58E-06	6.27E-07	7.81E-06	1.01E-06	<3.8E-05		1.20E-04	7.58E-05
54-MN	9.92E+00	4.96E-01	1.21E-03	6.04E-05	3.70E-07	5.92E-08	2.30E-03	1.84E-04	7.40E-04	7.40E-05
55-FE										
58-CO	1.77E+01	8.85E-01	3.12E-02	1.55E-03	2.55E-04	1.07E-05	3.63E-02	1.81E-03	9.75E-03	4.87E-04
60-CO	3.62E+01	1.81E+00	9.33E-03	4.62E-04	1.31E-05	2.97E-06	1.86E-02	9.30E-04	5.15E-03	3.09E-04
59-NI	2.49E-01	1.24E-02	1.16E-04	2.66E-05	1.26E-06	1.89E-07	<3.6E-03		<4.9E-03	
63-NI	2.05E+01	1.02E+00	6.06E-03	3.02E-04	1.55E-05	4.58E-06	1.10E-02	5.52E-04	4.65E-03	5.12E-04
90-SR	1.10E+01	5.48E-01	1.26E-05	6.30E-07	2.20E-06	4.40E-07	9.30E-05	3.35E-05	5.55E-05	2.94E-05
95-ZR	1.62E+00	3.56E-01			7.20E-06	1.37E-06	6.90E-04	2.97E-04	8.04E-04	5.63E-05
94-NB	3.00E-04	3.00E-05	<1.5E-06		<1.6E-06		<1.3E-06		<3.2E-07	
99-TC	4.50E-04	1.89E-04	<8.1E-06		<6.6E-06		<7.5E-05		<3.9E-05	
106-RU	<3.2E-01		<1.7E-04		<3.8E-05		<5.7E-04		<2.6E-04	
110M-AG	<4.4E-02		8.81E-05	5.02E-05	3.20E-07	9.28E-08	<6.3E-05		<2.6E-05	
125-SB	1.61E+00	8.03E-02	4.64E-04	1.79E-04			1.80E-03	5.94E-04	<2.9E-04	
129-I	<2.1E-05		<8.5E-06		1.74E-05	8.71E-07	<2.7E-05		4.61E-05	2.21E-05
134-CS	5.45E+01	2.72E+00	1.93E-02	9.62E-04	5.57E-03	2.78E-04	2.43E-02	1.22E-03	1.10E-03	5.50E-05
135-CS										
137-CS	7.85E+01	3.92E+00	2.77E-02	1.38E-03	1.26E-02	6.30E-04	4.12E-02	2.06E-03	2.59E-02	1.29E-03
141-CE	<1.9E-03		1.20E-06	3.96E-07	1.80E-07	5.94E-08	<7.8E-05		<5.5E-05	
144-CE	8.41E-02	4.21E-03	2.50E-06	7.00E-07	1.90E-07	3.99E-08	<1.4E-04		<9.4E-05	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	5.30E-04	2.65E-05	9.89E-08	1.78E-08	2.07E-08	7.05E-09	4.72E-06	7.55E-07	8.02E-06	9.63E-07
239-PU	3.95E-04	1.98E-05	8.58E-08	1.67E-08	1.76E-08	6.51E-09	4.57E-06	7.31E-07	1.67E-05	1.33E-06
241-PU	4.72E-02	2.36E-03	9.20E-06	1.32E-06	5.44E-06	1.27E-06	1.26E-03	1.64E-04	6.58E-04	1.71E-04
241-AM	1.39E-04	6.95E-06	4.14E-08	1.21E-08	2.14E-08	8.62E-09	<1.0E-07		5.25E-06	6.31E-07
242-CM	2.06E-03	1.03E-04	1.38E-07	2.09E-08	1.51E-08	7.30E-09	2.27E-06	4.76E-07	4.72E-06	7.08E-07
244-CM	2.75E-04	1.38E-05	2.42E-08	9.32E-09	2.15E-10	1.22E-10	2.17E-07	1.37E-07	1.44E-06	3.46E-07

RADIOACTIVE WASTE SAMPLE LISTING  
S A J D A T A B A S E

PLANT NAME:	V. C. SUMMER	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK
UNIT NUMBER:	1	2	1	1	2
PLANT TYPE:	PWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	SEACAST	SEACAST	SEACAST	SEACAST
START-UP DATE:	1-AUG-82	1-NOV-75	1-MAR-77	1-MAR-77	1-NOV-75
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLE SUB-TYPE:	LIQUID	TOTAL	TOTAL	TOTAL	TOTAL
SAMPLING DATE:	30-JUN-83	12-JUL-83	14-JUL-83	20-JUL-83	20-JUL-83
SAMPLE NUMBER:	10214	10192	10193	10194	10195

Concentrations in microcuries/gram

A-146

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	2.62E-01	1.31E-02	5.09E-03	2.54E-04	2.36E-03	1.18E-04	8.49E-05	1.53E-05	6.03E-03	3.01E-04
14-C	7.19E-06	5.76E-07	<5.0E-05		<6.2E-06		<5.2E-05		<6.4E-06	
54-MN	4.35E-05	2.17E-06	1.18E-06	1.73E-07	3.68E-06	1.86E-07	6.23E-04	2.88E-05	6.44E-04	2.94E-05
55-FE			8.28E-05	1.44E-05	2.28E-05	1.60E-06	6.81E-03	4.77E-04	4.53E-03	3.06E-04
58-CO	2.00E-04	1.00E-05	4.79E-07	1.54E-07	1.03E-07	1.54E-08	1.56E-05	4.33E-06	5.94E-04	2.96E-05
60-CO	1.60E-05	7.98E-07	5.34E-06	2.99E-07	5.89E-06	2.85E-07	9.04E-04	3.84E-05	2.12E-03	8.29E-05
59-NI	3.95E-06	2.14E-06	<1.0E-05		1.11E-06	5.98E-07	1.34E-04	7.39E-05	8.19E-06	5.73E-07
63-NI	3.00E-06	4.20E-07	<5.8E-06		1.79E-07	1.05E-07	3.29E-05	6.58E-06	4.80E-05	5.88E-06
90-SR	8.90E-08	2.89E-08	9.80E-08	1.90E-08	1.50E-08	1.00E-08	6.80E-08	1.02E-08	1.12E-06	3.96E-07
95-ZR	3.46E-06	1.42E-06								
94-NB	<3.0E-08									
99-TC	<9.3E-08		<1.2E-06		<1.1E-06		<5.4E-06		<1.0E-07	
106-RU	<2.8E-06		<3.5E-07		<1.8E-07		<1.8E-06		<1.4E-05	
110M-AG	<2.0E-07		5.72E-08	9.15E-09	<3.1E-08		<3.4E-07		<2.4E-06	
125-SB	<2.0E-06		<2.9E-07		5.60E-07	1.23E-07	<1.1E-06		<1.0E-05	
129-I	3.46E-08	1.00E-08	<4.0E-07		<4.0E-07		1.60E-05	1.60E-06	<2.2E-06	
134-CS	<3.0E-07		4.55E-07	1.44E-07	<2.0E-08		<1.7E-07		<1.4E-06	
135-CS										
137-CS	<1.8E-06		5.37E-07	1.90E-07	<2.6E-07		<2.0E-07		1.19E-05	5.10E-06
141-CE	<2.3E-07		1.20E-08	7.20E-09	<2.7E-08		<1.6E-07		3.08E-06	1.54E-07
144-CE	<2.4E-07		<1.9E-07		<7.7E-08		<5.3E-07		6.19E-06	3.71E-07
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	<3.1E-09		<5.1E-09		7.16E-09	1.53E-09	1.48E-07	2.82E-08	5.53E-09	4.98E-10
239-PU	<2.8E-09		<3.3E-09		1.44E-09	6.06E-10	3.76E-07	4.51E-08	2.20E-08	1.10E-09
241-PU	<2.1E-06		3.09E-06	7.64E-07	1.42E-06	3.32E-07	2.10E-05	3.97E-06	7.64E-06	1.63E-06
241-AM	1.48E-09	4.30E-10	1.09E-08	2.19E-09	2.87E-09	1.03E-09	1.05E-07	2.71E-08	2.98E-09	3.27E-10
242-CM	1.09E-09	4.35E-10	5.52E-09	1.77E-09	1.07E-10	5.65E-11	1.78E-10	5.15E-11	7.73E-08	3.87E-09
244-CM	4.61E-10	2.44E-10	1.68E-10	1.01E-10	<1.7E-09		3.60E-08	1.58E-08	1.01E-09	1.92E-10



RADIOACTIVE WASTE SAMPLE LISTING  
S A I D A T A B A S E

PLANT NAME:	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK
UNIT NUMBER:	1	1	1	2	1
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	SEACOAST	SEACOAST	SEACOAST	SEACOAST	SEACOAST
START-UP DATE:	1-MAR-77	1-MAR-77	1-MAR-77	1-NOV-75	1-MAR-77
SAMPLE TYPE:	RESIN	RESIN	RESIN	FILTER SLUDGE	DRY ACTIVE WASTE
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	PRIMARY	SMEAR
SAMPLING DATE:	19-JUL-83	19-JUL-83	19-JUL-83	19-JUL-83	20-JUL-83
SAMPLE NUMBER:	10200	10201	10202	10203	10204

Concentrations in microcuries/gram

A-147

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	1.34E-03	2.01E-04	1.49E-03	2.53E-04	2.92E-03	4.96E-04	2.16E-03	6.05E-04	<1.0E-03	
14-C	1.62E-04	7.78E-05	<2.4E-04		<4.2E-04		<4.4E-04		<6.8E-04	
54-MN	1.28E-01	6.41E-03	1.14E-01	5.72E-03	7.30E+00	3.65E-01	2.33E-01	1.17E-02	1.12E-01	5.59E-03
55-FE	2.17E-02	2.39E-03	1.79E-02	1.97E-03	6.81E+00	6.81E-01	4.90E-01	5.39E-02	8.34E-01	5.00E-02
58-CO	2.89E-02	4.34E-03	2.93E-02	2.64E-03	4.22E+00	2.11E-01	8.20E-02	6.56E-03	4.44E-03	3.10E-04
60-CD	5.08E-01	2.54E-02	4.60E-01	2.30E-02	2.60E+01	1.30E+00	1.57E+00	7.83E-02	2.93E-01	1.47E-02
59-NI	4.35E-04	1.96E-04	3.30E-04	2.05E-04	2.32E-03	1.62E-04	3.91E-03	5.86E-04	5.77E-03	2.65E-03
63-NI	1.25E-02	6.23E-04	1.22E-02	6.08E-04	1.03E-01	5.14E-03	2.01E-01	1.01E-02	4.66E-02	2.33E-03
90-SR	1.05E-02	5.25E-04	8.91E-03	4.45E-04	2.12E-02	1.06E-03	2.00E-03	1.00E-04	1.34E-03	6.70E-05
95-ZR										
94-NB										
99-TC	<7.4E-06		<6.0E-05		<7.0E-04		<7.0E-05		<6.0E-05	
106-RU	<1.1E-02		<7.2E-03		<2.3E-01		<1.7E-02		<8.1E-04	
110M-AG	<1.9E-03		<1.3E-03		2.11E-01	1.12E-01	<3.2E-03		1.24E-03	4.10E-04
125-SB	<8.6E-03		<5.7E-03		<1.6E-01		<1.4E-02		<5.5E-04	
129-I	<1.7E-05				1.73E-03	1.39E-04	5.70E-05	2.73E-05	<6.0E-05	
134-CS	5.33E-02	2.67E-03	4.95E-02	2.48E-03	2.09E-01	1.05E-02	2.32E-01	1.16E-02	2.67E-02	1.33E-03
135-CS										
137-CS	1.11E-01	5.56E-03	9.84E-02	4.92E-03	8.28E-01	7.46E-02	4.23E-01	2.12E-02	5.91E-02	2.96E-03
141-CE	<1.1E-03		8.85E-05	5.22E-05	3.30E-02	1.65E-03	2.60E-03	1.30E-04	<3.6E-05	
144-CE	<3.5E-03		<3.2E-05		8.65E-03	4.33E-04	<2.0E-03		<6.1E-05	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	9.44E-07	1.13E-07	1.66E-06	4.15E-07	3.10E-05	1.55E-06	4.21E-06	4.21E-07	2.73E-06	7.11E-07
239-PU	9.07E-07	1.18E-07	1.10E-06	3.29E-07	4.14E-05	2.07E-06	9.99E-06	6.00E-07	1.79E-06	5.73E-07
241-PU	1.30E-04	2.33E-05	4.32E-04	3.89E-05	4.30E-03	4.73E-04	7.50E-04	9.75E-05	5.20E-03	2.60E-04
241-AM	<2.3E-06		2.46E-07	5.41E-08	8.47E-05	4.23E-06	1.43E-06	1.86E-07	3.84E-06	8.06E-07
242-CM	1.03E-05	5.05E-06	3.04E-07	6.38E-08	1.56E-04	7.80E-06	9.61E-06	5.77E-07	3.68E-06	8.82E-07
244-CM	<4.5E-06		6.00E-08	2.64E-08	2.43E-05	1.21E-06	3.94E-07	1.02E-07	1.85E-06	5.74E-07

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	DCONEE	DCONEE	DCONEE	OYSTER CREEK	INDIAN POINT
UNIT NUMBER:	2	3	1	1	3
PLANT TYPE:	PWR	PWR	PWR	BWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	SEACCAST	INLAND
START-UP DATE:	1-SEP-74	1-DEC-74	1-JUL-73	1-DEC-69	1-AUG-76
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	FILTER CARTRIDGE	EVAPORATOR BOTTOMS	RESIN
SAMPLE SUB-TYPE:	LIQUID	LIQUID	PRIMARY	SOLID	PRIMARY
SAMPLING DATE:	08-AUG-83	08-AUG-83	01-NOV-82	02-AUG-83	19-AUG-83
SAMPLE NUMBER:	10248	10249	10250	10229	10246

Concentrations in microcuries/gram

		<u>Value</u>	<u>Unc.</u>		<u>Value</u>	<u>Unc.</u>		<u>Value</u>	<u>Unc.</u>		<u>Value</u>	<u>Unc.</u>
A-148	3-H	7.47E-02	3.74E-03		2.83E-01	1.41E-02		1.66E-02	8.28E-04		2.32E-03	1.35E-03
	14-C	5.49E-05	3.84E-06		6.96E-05	5.57E-06		5.49E+00	2.75E-01		5.28E-02	2.64E-03
	54-MN	3.74E-05	3.00E-06		3.40E-05	7.81E-06					2.59E-03	2.07E-04
	55-FE											
	58-CO	2.19E-03	1.10E-04		1.67E-03	8.35E-05					<6.6E-05	
	60-CO	4.16E-05	4.16E-06		7.42E-05	2.30E-05					5.76E-02	2.88E-03
	59-NI											
	63-NI	1.16E-04	5.78E-06		1.64E-05	3.45E-06		1.70E+02	8.49E+00		9.10E-04	9.10E-05
	90-SR	2.43E-06	4.12E-07		1.73E-06	3.97E-07		1.79E-01	8.94E-03		1.48E-03	7.39E-05
	95-ZR	1.47E-05	6.59E-06									
	94-NB											
	99-TC	9.88E-06	1.98E-06		6.27E-07	2.51E-07		1.03E-02	5.15E-04		<2.7E-05	
	106-RU											
	110M-Ag	<1.0E-06			7.32E-05	8.06E-06					<9.2E-05	
	125-SB				<6.0E-05						<7.7E-04	
	129-I	<3.6E-05			<3.4E-06			<1.1E-04			<8.8E-06	
	134-CS	1.60E-03	8.00E-05		3.18E-03	1.59E-04					2.05E-02	1.03E-03
	135-CS											
	137-CS	2.16E-03	1.08E-04		6.55E-03	3.28E-04					2.02E-01	1.01E-02
	141-CE	6.50E-06	3.64E-06		<4.6E-07						<7.4E-05	
	144-CE	<1.9E-06			<7.5E-07						<2.6E-04	
	152-EU											
	154-EU											
	155-EU											
	235-U											
238-U												
238-PU	8.38E-08	1.43E-08		<3.1E-08						<2.4E-05		
239-PU	4.13E-08	9.91E-09		<1.6E-08						<4.3E-06		
241-PU	2.70E-05	8.92E-06		1.24E-05	4.46E-06					3.62E-03	5.44E-04	
241-AM	3.06E-08	6.74E-09		1.46E-06	7.28E-08					3.05E-06	1.07E-06	
242-CM	7.17E-07	3.59E-08		1.54E-08	5.86E-09					8.04E-06	1.93E-06	
244-CM	3.93E-08	7.85E-09		8.92E-07	4.46E-08					6.30E-06	1.51E-06	

RADIOACTIVE WASTE SAMPLE LISTING  
SAI DATABASE

PLANT NAME:	INDIAN POINT	OYSTER CREEK	OYSTER CREEK	FARLEY	FARLEY
UNIT NUMBER:	3	1	2	1	1
PLANT TYPE:	PWR	BWR	BWR	PWR	PWR
PLANT LOCATION:	INLAND	SEACOAST	SEACOAST	INLAND	INLAND
START-UP DATE:	1-AUG-76	1-DEC-69		1-DEC-77	1-DEC-77
SAMPLE TYPE:	DRY ACTIVE WASTE	FILTER SLUDGE	DRY ACTIVE WASTE	REACTOR COOLANT	RESIN
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	LIQUID	PRIMARY
SAMPLING DATE:	19-AUG-83	05-JUL-83	20-JUL-83	15-JUN-83	08-AUG-83
SAMPLE NUMBER:	10247	10190	10191	10230	10231

Concentrations in microcuries/gram

A-149

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<2.1E-04						3.40E-01	1.70E-02	4.07E-03	4.48E-04
14-C	1.51E-02	7.53E-04					<1.3E-04		1.06E-03	1.49E-04
54-MN	1.01E-02	9.05E-04			3.59E-03	3.23E-04	8.54E-04	7.69E-05	7.62E-04	1.07E-04
55-FE	6.41E-01	3.20E-02					1.83E-03	9.13E-05	1.29E-02	6.47E-04
58-CO	2.79E-03	8.37E-04			<1.1E-04		2.81E-02	1.40E-03	1.45E-02	7.27E-04
60-CO	4.11E-01	2.06E-02			1.02E-01	5.09E-03	<9.3E-05		<1.0E-03	
59-NI	<2.4E-03						3.14E-04	1.88E-05	2.04E-02	1.02E-03
63-NI	1.65E-01	8.25E-03					8.60E-06	1.63E-06	7.73E-04	8.53E-05
90-SR	1.72E-04	6.70E-05	1.87E-05	9.35E-07	<5.5E-05		4.89E-08	9.29E-09	6.23E-03	3.11E-04
95-ZR							<2.0E-06		<4.3E-05	
94-NB	<1.5E-04						<5.3E-06		<2.9E-04	
99-TC	<9.7E-05									
106-RU										
110M-AG	<4.2E-04						3.13E-04	9.08E-05	5.56E-03	2.78E-04
125-SB	5.23E-03	2.20E-03			1.16E-03	4.52E-04	2.89E-04	1.19E-04	7.03E-04	3.30E-04
129-I	<4.1E-05						<9.8E-07		<8.9E-06	
134-CS	1.44E-03	3.74E-04			<6.4E-05		<1.9E-05		5.49E-04	7.14E-05
135-CS										
137-CS	6.25E-03	7.51E-04			<7.8E-05		2.64E-04	6.60E-05	<7.3E-05	
141-CE	<2.3E-05				<4.4E-05		8.80E-05	4.14E-05	<4.2E-05	
144-CE	<8.8E-05						1.20E-03	1.44E-04	8.68E-03	7.81E-04
152-EU										
154-EU										
155-EU										
235-U			<5.2E-06		<1.3E-06					
238-U			<1.7E-06		<6.3E-07					
238-PU	7.14E-06	1.93E-06	9.03E-05	4.52E-06	6.19E-05	4.33E-06	3.18E-07	4.45E-08	3.15E-04	1.57E-05
239-PU	2.10E-05	3.37E-06	3.89E-05	1.94E-06	3.85E-05	3.46E-06	9.27E-08	2.41E-08	1.16E-04	9.29E-06
241-PU	3.23E-03	9.35E-04	8.32E-03	4.16E-04	9.11E-03	2.28E-03	3.46E-05	7.96E-06	5.38E-03	4.84E-04
241-AM	9.96E-06	8.96E-07	4.55E-05	2.27E-06	5.20E-05	4.16E-06	<4.6E-07		1.03E-05	2.15E-06
242-CM	2.71E-06	5.42E-07	8.19E-05	4.10E-06	1.59E-06	8.44E-07	<7.2E-07		1.50E-05	2.70E-06
244-CM	5.77E-06	6.93E-07	8.26E-05	4.13E-06	1.86E-05	2.60E-06	8.66E-07	4.51E-07	2.65E-06	1.09E-06

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	FARLEY	FARLEY	FARLEY	FARLEY	FARLEY
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-DEC-77	1-DEC-77	1-DEC-77	1-DEC-77	1-DEC-77
SAMPLE TYPE:	DRY ACTIVE WASTE	FILTER SLUDGE	FILTER SLUDGE	FILTER CARTRIDGE	DRY ACTIVE WASTE
SAMPLE SUB-TYPE:	PRIMARY	RADWASTE	RADWASTE	RADWASTE	PRIMARY
SAMPLING DATE:	02-AUG-83	15-AUG-83	10-AUG-83	03-AUG-83	02-AUG-83
SAMPLE NUMBER:	10232	10233	10234	10235	10236

Concentrations in microcuries/gram

A-150

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<7.6E-05		1.49E-03	3.12E-04	4.60E-02	2.30E-03	<2.5E-04		<6.1E-05	
14-C	2.07E-04	7.88E-05	1.85E-03	1.48E-04	8.37E-03	4.18E-04	9.18E-04	9.18E-05	1.32E-04	8.33E-05
54-MN	1.75E-05	1.23E-06	3.20E-02	1.60E-03	2.88E-02	1.44E-03	5.80E-03	7.54E-04	1.81E-02	7.59E-03
55-FE										
58-CD	3.31E-05	1.66E-06	4.20E-01	2.10E-02	1.57E-01	7.85E-03	2.90E-02	1.45E-03	1.29E-02	7.08E-03
60-CD	2.86E-04	1.43E-05	7.33E-01	3.66E-02	1.01E+00	5.05E-02	1.26E-01	6.30E-03	1.55E-01	7.74E-03
59-NI	<3.5E-04		2.63E-03	4.47E-04	2.53E-03	1.52E-04	<3.1E-04		<1.1E-03	
63-NI	<4.9E-04		1.89E-01	9.45E-03	1.93E-01	9.63E-03	1.20E-02	5.99E-04	4.12E-03	2.06E-04
90-GR	<3.6E-05		1.23E-03	6.13E-05	1.47E-03	7.36E-05	2.16E-04	2.38E-05	1.07E-04	1.29E-05
95-ZR	2.50E-05	4.25E-06	2.47E-01	1.24E-02	8.58E-02	4.29E-03	1.20E-02	1.32E-03		
94-NB	<1.9E-05		8.65E-04	4.33E-05	8.95E-05	4.48E-06	<8.4E-05		<3.4E-05	
99-TC	<1.7E-05		<2.6E-05		6.02E-05	4.21E-06	2.74E-05	7.11E-06	<1.2E-05	
106-RU									<2.0E-02	
110M-AG	<3.2E-06		4.06E-02	3.65E-03	4.31E-02	2.16E-03	9.38E-03	8.44E-04	<3.9E-03	
125-SB			7.00E-03	3.43E-03	7.90E-03	1.66E-03	2.90E-03	1.31E-03	<1.8E-02	
127-SB	<1.2E-05		6.55E-06	3.47E-06	<1.6E-05		6.82E-05	5.46E-06	<3.9E-06	
130-SB	2.70E-06	1.19E-06	2.60E-03	1.53E-03	<4.9E-03		<2.1E-04		8.73E-02	4.36E-03
132-SB										
137-CS	<5.5E-07		<7.0E-04		<5.3E-04		<3.1E-04		1.42E-01	9.96E-03
141-GE	1.70E-06	8.67E-07	6.23E-03	1.25E-03	1.70E-03	7.48E-04	<9.8E-04		<1.9E-03	
144-CE	3.92E-05	3.14E-06	1.57E-01	7.85E-03	5.80E-02	2.90E-03	1.83E-02	1.46E-03	<7.4E-03	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	4.84E-06	5.32E-07	2.97E-05	1.49E-06	9.02E-06	4.51E-07	6.27E-06	1.07E-06	4.16E-06	9.15E-07
239-PU	3.04E-06	4.26E-07	4.51E-04	2.25E-05	1.72E-04	8.58E-06	2.06E-05	1.85E-06	7.42E-06	1.19E-06
241-PU	4.20E-04	1.30E-04	2.36E-02	1.18E-03	5.48E-03	2.74E-04	6.35E-04	5.08E-05	3.23E-04	8.39E-05
241-AM	1.60E-06	2.88E-07	2.00E-05	2.00E-06	6.80E-06	3.40E-07	2.20E-06	6.60E-07	2.10E-06	8.61E-07
242-CM	3.10E-07	1.36E-07	1.59E-04	7.97E-06	3.07E-05	1.53E-06	1.10E-05	1.54E-06	<6.4E-07	
244-CM	7.00E-07	1.96E-07	7.31E-06	1.24E-06	1.24E-06	1.61E-07	4.81E-06	9.62E-07	2.27E-06	9.10E-07

# RADIOACTIVE WASTE SAMPLE LISTING

S A I   D A T A B A S E

PLANT NAME:	FARLEY	FARLEY	V. C. SUMMER	V. C. SUMMER	V. C. SUMMER
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-DEC-77	1-DEC-77	1-AUG-82	1-AUG-82	1-AUG-82
SAMPLE TYPE:	RESIN	RESIN	REACTOR COOLANT	DRY ACTIVE WASTE	FILTER SLUDGE
SAMPLE SUB-TYPE:	SECONDARY	PRIMARY	SOLID	PRIMARY	SECONDARY
SAMPLING DATE:	09-AUG-84	03-AUG-83	29-JUN-83	30-JUN-83	30-JUN-83
SAMPLE NUMBER:	10237	10238	10222	10225	10227

Concentrations in microcuries/gram

A-151

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	5.71E-03	6.85E-04	8.77E-03	5.26E-04						
14-C	1.44E-02	8.63E-04	6.65E-02	3.33E-03	1.29E-08	3.21E-09	<1.1E-04			
54-MN	2.20E-01	5.06E-02	5.89E+00	2.94E-01	2.21E-06	1.10E-07	1.75E-03	8.75E-05	<3.1E-08	
55-FE										
58-CO	5.00E+00	2.50E-01	4.57E+01	2.29E+00	3.56E-05	1.78E-06	6.24E-02	3.12E-03	<4.6E-08	
60-CO	1.44E+01	7.20E-01	7.39E+01	3.69E+00	3.33E-06	1.66E-07	1.72E-02	8.60E-04	<3.8E-08	
59-NI	1.24E-01	6.21E-03	6.17E-01	3.09E-02	<2.4E-06		<9.7E-03			
63-NI	9.09E+00	4.55E-01	5.50E+01	2.75E+00	3.00E-06	4.21E-07	6.28E-03	1.26E-03		
90-SR	9.91E-02	4.95E-03	3.03E+00	1.51E-01	7.88E-08	4.73E-09	<1.2E-04		<1.3E-06	
95-ZR	7.31E-02	3.66E-03			7.73E-06	3.87E-07	2.30E-03	2.53E-04		
94-NB	2.90E-04	3.77E-05	<3.2E-04		<5.4E-09		<1.8E-04			
99-TC	7.31E-04	4.39E-05	5.27E-03	2.63E-04	<2.9E-08		<5.9E-05			
106-RU					<1.1E-07		<1.9E-04		<2.5E-07	
110M-A6			<8.3E-02		<9.8E-09		<2.9E-05		<4.4E-08	
125-SB	<2.4E-01		<4.6E-01		<1.6E-07		<6.3E-04		<2.0E-07	
129-I	<2.6E-05		2.19E-05	9.22E-06	<3.5E-09		<3.8E-05			
134-CS	4.50E-01	2.25E-02	2.15E+01	1.08E+00	<1.1E-08		<2.1E-05		<2.1E-08	
135-CS										
137-CS	1.00E+00	5.00E-02	5.21E+01	2.61E+00	<9.7E-09		<1.3E-04		<2.7E-08	
141-CE	4.17E-02	2.09E-03	2.43E-02	1.46E-03	<1.5E-08		<1.6E-06		<8.7E-08	
144-CE	1.30E+00	6.50E-02	6.77E-01	3.38E-02	2.30E-07	8.51E-08	<2.9E-06		<1.7E-07	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	5.64E-04	2.82E-05	1.57E-04	7.84E-06	1.88E-10	5.25E-11	4.71E-06	1.13E-06		
239-PU	1.11E-02	5.56E-04	2.99E-03	1.49E-04	8.81E-11	3.61E-11	3.57E-06	9.63E-07		
241-PU	1.66E-01	8.29E-03	5.05E-02	2.52E-03	3.11E-07	2.18E-08	5.37E-03	5.37E-04		
241-AM	2.17E-04	1.08E-05	1.22E-04	8.54E-06	6.36E-11	2.48E-11	4.82E-06	7.71E-07	<9.8E-08	
242-CM	8.36E-04	4.18E-05	1.22E-04	8.53E-06	<3.7E-11		1.74E-06	5.58E-07		
244-CM	7.14E-05	3.57E-06	6.13E-06	1.78E-06	<3.7E-11		8.55E-07	3.42E-07		

# RADIOACTIVE WASTE SAMPLE LISTING

## S A I D A T A B A S E

PLANT NAME:	EDWIN HATCH	EDWIN HATCH	EDWIN HATCH
UNIT NUMBER:	1	1	1
PLANT TYPE:	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND
START-UP DATE:	1-DEC-75	1-DEC-75	1-JUN-83
SAMPLE TYPE:	REACTOR COOLANT	DRY ACTIVE WASTE	REACTOR COOLANT
SAMPLE SUB-TYPE:	TOTAL	PRIMARY	TOTAL
SAMPLING DATE:	18-AUG-83	09-AUG-83	05-AUG-83
SAMPLE NUMBER:	10259	10261	10262

Concentrations in microcuries/gram

A-152

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	2.40E-03	1.20E-04	<1.2E-04		4.65E-04	2.33E-05	2.05E-04	9.86E-05	1.38E-04	7.45E-05
14-C	5.29E-06	1.64E-06	<8.3E-05		<9.0E-07		9.94E-04	4.97E-05	<5.8E-05	
54-MN	2.94E-05	3.01E-06	2.58E-02	1.29E-03	3.06E-04	1.45E-05	7.93E-02	3.97E-03	5.67E-03	2.84E-04
55-FE										
58-CO	6.80E-05	3.87E-06	6.74E-03	9.44E-04	5.11E-04	2.42E-05	8.43E-02	4.21E-03	6.24E-03	3.12E-04
60-CO	1.09E-04	7.46E-06	1.26E-01	6.30E-03	1.17E-04	5.51E-06	1.76E-02	8.82E-04	3.05E-03	2.14E-04
59-NI	<1.2E-05		<1.9E-03		<3.3E-06		<1.9E-05		2.37E-04	1.47E-04
63-NI	3.83E-06	1.61E-06	2.15E-03	3.86E-04	3.23E-07	3.55E-08	2.63E-03	1.32E-04	3.09E-04	2.47E-05
90-SR	1.29E-07	6.32E-08	1.10E-03	5.72E-04	6.38E-07	7.01E-08	1.92E-04	5.62E-05	<5.3E-05	
95-ZR	2.94E-05	1.47E-06	1.36E-02	2.72E-03	2.79E-05	4.93E-06				
94-NB	<1.7E-06		<1.6E-04		<1.2E-07		<6.2E-06		<5.9E-06	
99-TC	<1.1E-06		9.03E-06	3.43E-06	<2.6E-07		<2.2E-06		<3.4E-06	
106-RU					<4.3E-06		<9.2E-04		<2.7E-04	
110M-AG	4.23E-07	6.35E-08	<3.9E-04		1.51E-05	2.53E-06	<6.4E-05		<2.9E-05	
125-SB					<3.1E-06		<5.7E-04		<1.8E-04	
129-I	<1.8E-05		<1.8E-04		<4.7E-08		<8.8E-05		<8.7E-06	
134-CS	2.34E-04	1.16E-05	1.94E-02	9.70E-04	<5.5E-07		<9.6E-05		<3.1E-05	
135-CS										
137-CS	2.51E-04	1.25E-05	2.94E-02	1.47E-03	<4.1E-07		<8.4E-05		<2.5E-05	
141-CE	2.63E-06	1.32E-07	<1.9E-04		<1.0E-07		<4.9E-06		<2.7E-06	
144-CE	<9.4E-06		4.75E-04	2.99E-04	6.59E-08	2.04E-08	<1.0E-05		<4.7E-06	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	3.83E-08	1.89E-09	2.05E-04	1.03E-05	3.59E-09	8.41E-10	1.73E-07	6.24E-08	1.09E-07	2.82E-08
239-PU	5.81E-09	7.35E-10	5.48E-05	3.29E-06	1.73E-09	5.78E-10	3.64E-07	9.09E-08	1.42E-07	3.27E-08
241-PU	1.05E-06	1.73E-07	7.88E-04	1.81E-04	3.99E-07	1.08E-07	6.54E-05	1.57E-05	3.36E-05	1.01E-05
241-AM	1.05E-07	1.66E-08	3.15E-06	8.81E-07	2.80E-09	1.00E-09	<3.4E-08		8.86E-08	2.13E-08
242-CM	7.50E-10	3.00E-10	5.39E-06	1.29E-06	2.25E-10	5.17E-11	<3.6E-08		2.03E-08	1.12E-08
244-CM	8.55E-09	4.51E-09	1.23E-06	5.43E-07	1.77E-09	7.94E-10	<4.5E-08		4.11E-08	1.44E-08

# RADIOACTIVE WASTE SAMPLE LISTING

## SAI DATABASE

PLANT NAME:	FITZPATRICK	FITZPATRICK	FITZPATRICK	FITZPATRICK	FITZPATRICK
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-JUL-75	1-JUL-75	1-JUL-75	1-JUL-75	1-JUL-75
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	EVAPORATOR BOTTOMS
SAMPLE SUB-TYPE:	SOLID	SOLID	SOLID	PRIMARY	SOLID
SAMPLING DATE:	26-JAN-83	02-FEB-83	09-FEB-83	10-FEB-83	10-JAN-83
SAMPLE NUMBER:	10266	10267	10268	10269	10270

Concentrations in microcuries/gram

A-153

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<5.4E-08		<4.5E-08		<6.2E-09		4.34E-04	2.17E-05	<4.3E-04	
14-C	4.92E-08	1.38E-08	<1.6E-08		<1.3E-08		2.68E-02	1.34E-03	3.63E-03	1.82E-04
54-MN	4.24E-04	2.12E-05	1.06E-04	5.31E-06	5.87E-05	2.94E-06	1.90E-01	9.51E-03	4.20E-01	5.46E-02
55-FE	2.36E-03	5.90E-04	3.01E-04	7.52E-05	1.20E-04	6.00E-05	2.14E-01	5.35E-02	1.10E+00	2.75E-01
58-CO	1.70E-04	3.23E-05	4.93E-05	3.17E-06	2.00E-05	5.00E-06	6.38E-02	1.59E-02	<1.7E-01	
60-CO	6.87E-04	3.43E-05	1.71E-04	8.54E-06	9.76E-05	4.88E-06	5.95E-01	2.98E-02	5.38E+00	2.69E-01
59-NI	3.52E-06	2.82E-07	1.19E-06	4.76E-07	1.25E-06	4.76E-07	<4.2E-04		6.10E-04	2.93E-04
63-NI	1.36E-05	6.82E-07	1.48E-06	7.41E-08	2.15E-06	1.08E-07	5.35E-03	2.67E-04	5.21E-02	2.61E-03
90-SR	1.16E-08	3.83E-09	1.50E-08	4.80E-09	<3.8E-09		1.96E-02	9.80E-04	5.81E-04	2.90E-05
95-ZR			1.40E-05	4.20E-06						
94-NB	<1.9E-08		<4.2E-09		<1.2E-08		<2.8E-05		<3.6E-06	
99-TC	<2.4E-08		<3.5E-08		<1.9E-08		<5.9E-05		<1.2E-04	
106-RU	<1.7E-05		<1.7E-06		<2.9E-06		<8.8E-03		<1.1E-01	
110M-AG	<1.3E-05		<3.9E-07		<6.4E-07		<1.7E-03		<3.3E-02	
125-SB	<8.7E-06		1.49E-06	7.32E-07	<1.6E-06		<5.9E-03		<5.9E-02	
129-I	<4.6E-09		<6.8E-09		<3.5E-09		<1.1E-05		<4.9E-06	
134-CS	<5.8E-06		<1.5E-07		<2.5E-07		1.82E-01	9.09E-03	3.38E-01	2.37E-02
135-CS										
137-CS	<1.2E-06		<1.3E-07		<2.2E-07		1.79E-01	8.94E-03	5.76E-01	2.88E-02
141-CE	3.45E-08	2.24E-08	2.80E-08	1.71E-08	<2.9E-07		<1.6E-03		<7.3E-03	
144-CE	8.12E-07	4.06E-08	2.50E-07	4.00E-08	9.90E-08	3.07E-08	3.00E-04	1.80E-04	6.10E-04	9.15E-05
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	9.52E-10	2.76E-10	1.31E-09	1.70E-10	2.46E-09	1.72E-10	6.81E-06	8.85E-07	3.50E-06	3.85E-07
239-PU	4.47E-10	1.88E-10	1.23E-09	1.73E-10	1.77E-09	1.60E-10	6.56E-06	8.53E-07	6.19E-06	4.95E-07
241-PU	2.42E-07	1.69E-08	2.27E-07	2.04E-08	6.95E-08	1.18E-08	6.99E-04	4.90E-05	4.13E-03	2.07E-04
241-AM	6.36E-10	7.00E-11	5.70E-10	8.55E-11	3.01E-10	3.92E-11	1.76E-06	2.82E-07	1.10E-06	1.76E-07
242-CM	3.00E-08	1.50E-09	5.17E-09	4.65E-10	3.64E-10	7.27E-11	5.54E-06	8.31E-07	7.80E-06	7.80E-07
244-CM	6.23E-10	6.85E-11	5.60E-10	8.40E-11	3.42E-10	4.11E-11	1.85E-06	2.78E-07	7.90E-07	1.50E-07

# RADIODACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	FITZPATRICK	TROJAN	TROJAN	GINNA	GINNA
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	BWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-JUL-75	1-MAY-76	1-MAY-76	1-MAR-70	1-MAR-70
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	DRY ACTIVE WASTE	REACTOR COOLANT	RESIN
SAMPLE SUB-TYPE:	PRIMARY	SECONDARY	SMEAR	LIQUID	PRIMARY
SAMPLING DATE:	02-FEB-83	29-AUG-83	12-SEP-83	31-AUG-83	27-SEP-83
SAMPLE NUMBER:	10271	10273	10274	10285	10286

Concentrations in microcuries/gram

A-154

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<2. 1E-04		<1. 9E-04		<1. 6E-04		7. 79E-01	3. 90E-02	1. 66E-02	8. 31E-04
14-C	<2. 9E-04						1. 46E-05	3. 06E-06	1. 19E-01	5. 96E-03
54-MN	5. 23E-01	5. 23E-02	4. 10E-08	2. 09E-08	1. 16E-02	6. 94E-04	<7. 4E-06		7. 14E-01	9. 99E-02
55-FE	3. 38E+00	1. 69E-01	3. 74E-04	1. 57E-04	2. 74E-01	6. 85E-02				
58-CD	<8. 4E-02		7. 68E-07	3. 84E-08	5. 47E-02	2. 73E-03	4. 79E-05	2. 78E-05	8. 47E-01	1. 02E-01
60-CD	3. 22E+00	1. 61E-01	3. 22E-06	1. 61E-07	2. 48E-01	1. 24E-02	1. 72E-05	1. 15E-05	4. 07E+01	2. 04E+00
59-NI	4. 33E-02	2. 16E-03					<3. 1E-05		7. 13E-02	3. 60E-03
63-NI	1. 02E-01	5. 10E-03	<9. 7E-05		8. 89E-02	4. 44E-03	5. 70E-06	1. 82E-06	6. 21E+00	3. 10E-01
90-SR	1. 26E-01	6. 28E-03	2. 12E-05	8. 47E-06	8. 48E-04	4. 24E-05	4. 16E-07	2. 08E-08	1. 20E-01	6. 00E-03
95-ZR			1. 29E-07	5. 18E-08	7. 94E-03	6. 35E-04			8. 64E-03	4. 32E-04
94-NB	<8. 4E-06						<2. 3E-07		1. 09E-04	3. 27E-05
99-TC	<1. 1E-04		<9. 5E-06		<9. 1E-05		<1. 0E-05		7. 79E-04	2. 73E-04
106-RU	<1. 2E-01		<4. 7E-08		<2. 1E-03		<2. 2E-04		<3. 0E-01	
110M-AG	<2. 6E-02		7. 56E-08	1. 36E-08	<3. 8E-04		<1. 0E-05		<5. 4E-02	
125-SB	<7. 7E-02		2. 52E-07	4. 54E-08	5. 60E-03	1. 74E-03	<2. 9E-04		3. 70E-01	2. 48E-01
129-I	<9. 8E-06		<2. 5E-05		<8. 5E-05		5. 38E-07	2. 69E-07	<3. 6E-05	
134-CS	4. 91E-01	2. 45E-02	<6. 5E-09		4. 57E-02	2. 28E-03	2. 09E-02	1. 05E-03	1. 34E+01	6. 68E-01
135-CS										
137-CS	6. 55E-01	3. 27E-02	<6. 9E-09		1. 15E-01	5. 75E-03	2. 47E-02	1. 24E-03	2. 29E+01	1. 14E+00
141-CE	8. 04E-03	4. 42E-03	<5. 5E-09		<9. 8E-05		<6. 5E-05		2. 78E-03	1. 56E-03
144-CE	1. 01E-04	1. 62E-05	<1. 3E-08		3. 83E-02	3. 45E-03	<6. 3E-05		3. 53E-02	1. 45E-02
152-EU										
154-EU										
155-EU										
235-U										
238-U			<8. 9E-07							
238-PU	2. 82E-06	2. 82E-07	1. 04E-06	1. 76E-07	7. 37E-05	5. 16E-06	2. 94E-08	4. 70E-09	6. 60E-04	3. 30E-05
239-PU	3. 27E-06	2. 94E-07	2. 97E-07	9. 50E-08	3. 66E-04	1. 83E-05	2. 40E-08	4. 32E-09	8. 49E-04	4. 24E-05
241-PU	5. 92E-04	5. 33E-05	9. 90E-04	4. 95E-05	2. 75E-02	1. 37E-03	4. 12E-06	1. 11E-06	1. 46E-01	7. 28E-03
241-AM	6. 65E-07	9. 98E-08	4. 56E-07	8. 22E-08	5. 51E-05	3. 86E-06	4. 76E-07	2. 00E-07	2. 94E-04	1. 47E-05
242-CM	1. 71E-05	8. 57E-07	1. 39E-07	5. 02E-08	7. 21E-05	4. 33E-06	1. 96E-06	4. 70E-07	5. 22E-04	2. 61E-05
244-CM	5. 54E-07	9. 41E-08	1. 48E-07	4. 60E-08	1. 80E-05	2. 16E-06	8. 48E-07	2. 63E-07	3. 02E-04	1. 51E-05



# RADIOACTIVE WASTE SAMPLE LISTING

S A I   D A T A B A S E

PLANT NAME:	GINNA	GINNA	NUCLEAR ONE	NUCLEAR ONE	NUCLEAR ONE
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-MAR-70	1-MAR-70	1-DEC-74	1-DEC-74	1-DEC-74
SAMPLE TYPE:	RESIN	DRY ACTIVE WASTE	REACTOR COOLANT	REACTOR COOLANT	RESIN
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	TOTAL	TOTAL	RADWASTE
SAMPLING DATE:	27-SEP-83	27-SEP-83	26-SEP-83	27-SEP-83	26-SEP-83
SAMPLE NUMBER:	10287	10287	10307	10308	10311

Concentrations in microcuries/gram

A-155

	Value	Unc.	Value	Unc.	Value	Unc.	Value	Unc.	Value	Unc.
3-H	5.93E-02	2.97E-03	9.52E-04	9.52E-05	1.20E-01	5.98E-03	3.13E-02	1.56E-03	5.19E-04	1.24E-04
14-C	6.69E-02	3.35E-03	1.30E-04	2.47E-05	8.49E-05	5.09E-06	2.43E-05	3.95E-06	1.53E-03	7.64E-05
54-MN	6.24E-01	1.18E-01	<1.4E-05		<4.6E-06		6.00E-03	3.00E-04	1.87E-02	4.29E-03
55-FE										
58-CO	1.68E+00	1.34E-01	5.90E-04	4.72E-05	3.95E-04	2.85E-05	1.60E-02	7.37E-04	1.73E-02	7.10E-03
60-CO	2.72E+01	1.36E+00	6.25E-03	3.13E-04	8.99E-05	3.47E-05	1.29E-03	2.02E-04	5.15E-02	1.18E-02
59-NI	5.44E-02	2.72E-03	5.10E-04	2.20E-04	<5.4E-05		<7.5E-05		<1.6E-03	
63-NI	3.91E+00	1.96E-01	1.39E-03	6.95E-05	7.64E-06	3.82E-07	7.03E-04	3.11E-05	6.29E-02	3.14E-03
90-SR	8.53E-02	4.27E-03	<4.5E-06		3.35E-06	9.05E-07	1.52E-04	7.59E-06	1.59E-01	7.95E-03
95-ZR					8.60E-06	3.01E-06	6.59E-05	2.31E-05		
94-NB	<9.8E-05		<1.5E-05		<1.9E-06		<9.8E-07		<2.6E-05	
99-TC	<2.5E-04		<6.8E-05		<7.2E-06		<5.8E-06		<3.8E-04	
106-RU	<3.7E-01		<1.2E-04		<8.8E-05		<2.7E-04		<2.8E-02	
110M-AG	<6.3E-02		9.49E-05	9.49E-06	<5.2E-06		<2.2E-03		<1.9E-03	
125-SB	<3.5E-01		3.18E-04	1.05E-04	<1.1E-04		2.31E-05	9.24E-06	<3.6E-02	
129-I	<5.5E-05		<1.4E-05		2.02E-05	1.01E-06	<3.7E-06		<1.7E-05	
134-CS	1.73E+01	8.64E-01	3.33E-03	1.67E-04	2.82E-03	1.41E-04	7.59E-03	3.80E-04	9.44E-01	4.72E-02
135-CS										
137-CS	2.59E+01	1.30E+00	6.34E-03	3.17E-04	6.44E-03	3.22E-04	1.65E-02	8.26E-04	2.02E+00	1.01E-01
141-CE	1.09E-03	7.63E-05	<2.1E-05		1.44E-05	1.87E-06	1.95E-06	9.75E-08	8.34E-04	4.25E-04
144-CE	4.96E-02	2.48E-03	<1.4E-04		4.34E-07	2.34E-07	8.61E-05	1.75E-05	4.04E-02	2.02E-03
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	5.63E-04	2.81E-05	9.51E-07	1.14E-07	6.33E-10	1.27E-10	3.16E-08	1.38E-08	4.55E-05	2.27E-06
239-PU	8.68E-04	4.34E-05	1.22E-06	1.35E-07	2.53E-10	8.11E-11	5.65E-09	7.90E-10	3.83E-05	1.91E-06
241-PU	5.99E-02	3.00E-03	1.88E-04	2.45E-05	3.13E-05	1.24E-05	1.22E-05	2.97E-06	6.00E-03	1.50E-03
241-AM	5.45E-04	1.09E-04	8.64E-07	1.47E-07	1.95E-08	1.03E-08	6.98E-08	2.76E-08	1.04E-05	5.20E-07
242-CM	1.82E-03	3.64E-04	7.40E-07	1.48E-07	2.37E-09	4.98E-10	6.49E-08	2.27E-08	1.25E-04	6.26E-06
244-CM	4.33E-04	8.66E-05	6.80E-07	1.70E-07	2.14E-08	1.07E-08	4.14E-09	2.48E-10	1.17E-05	5.87E-07

# RADIOACTIVE WASTE SAMPLE LISTING

## SAI DATABASE

PLANT NAME:	NUCLEAR ONE	NUCLEAR ONE	NUCLEAR ONE
UNIT NUMBER:	1	1	2
PLANT TYPE:	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND
START-UP DATE:	1-DEC-74	1-DEC-74	1-MAR-80
SAMPLE TYPE:	RESIN	DRY ACTIVE WASTE	DRY ACTIVE WASTE
SAMPLE SUB-TYPE:	RADWASTE	PRIMARY	PRIMARY
SAMPLING DATE:	25-JUL-83	27-SEP-83	27-SEP-83
SAMPLE NUMBER:	10312	10313	10314

1	PWR	SEACAST	1-DEC-72
1	PWR	SEACAST	1-DEC-72
1	PWR	SEACAST	1-DEC-72
1	PWR	SEACAST	1-DEC-72
1	PWR	SEACAST	1-DEC-72
1	PWR	SEACAST	1-DEC-72
1	PWR	SEACAST	1-DEC-72
1	PWR	SEACAST	1-DEC-72
1	PWR	SEACAST	1-DEC-72
1	PWR	SEACAST	1-DEC-72

Concentrations in microcuries/gram

A-156

	<u>Value</u>	<u>Unc.</u>		<u>Value</u>	<u>Unc.</u>		<u>Value</u>	<u>Unc.</u>		<u>Value</u>	<u>Unc.</u>
3-H	6.93E-03	3.47E-04	<1.2E-04	<1.6E-03		1.27E-02	1.78E-03	9.75E-04	2.24E-04		
14-C	3.56E-02	1.78E-03	5.50E-04	1.92E-04	4.90E-04	2.60E-04	8.47E-02	4.23E-03	5.05E-03	2.52E-04	
54-MN	1.80E-01	9.00E-03	2.13E-04	5.54E-05	7.97E-04	9.56E-05	4.79E+00	1.20E+00	2.01E-02	1.01E-03	
55-FE											
58-CO	5.86E-01	2.93E-02	4.68E-04	7.02E-05	2.08E-03	1.25E-04	3.90E+00	1.79E+00	1.15E-01	5.74E-03	
60-CO	1.77E+00	8.85E-02	2.01E-03	1.81E-04	3.81E-03	1.90E-04	1.95E+01	1.17E+00	2.70E-01	1.33E-02	
59-NI	4.96E-04	5.95E-05	<1.8E-05	<6.9E-03			6.13E-02	3.68E-03	<2.0E-04		
63-NI	2.99E-02	1.50E-03	2.63E-05	1.13E-05	6.14E-03	6.14E-04	4.97E+00	2.98E-01	2.44E-02	1.22E-03	
90-SR	2.80E-01	1.40E-02	5.97E-04	1.61E-04	<1.4E-04		1.31E-01	6.55E-03	8.08E-04	4.04E-05	
95-ZR	<3.8E-02										
94-NB	<1.0E-04		<2.0E-04				<7.6E-04		<2.9E-05		
99-TC	<2.1E-04		<1.8E-05		<3.0E-04		<1.8E-03		<2.0E-04		
106-RU	<3.6E-02		<1.3E-04		<3.6E-04		<4.8E+00		<1.8E-03		
110M-AG	<3.9E-03		<2.3E-05		<3.2E-05		<5.8E-01		3.72E-03	5.58E-04	
125-SB	1.13E-01	4.51E-02	<1.2E-04		<4.7E-04		<5.6E+00				
129-I	1.87E-04	1.12E-05	<2.7E-05		1.18E-04	2.60E-05	<2.1E-04		<3.7E-05		
134-CS	3.98E+00	1.99E-01	7.20E-04	3.60E-05	2.17E-02	1.08E-03	7.28E+01	3.64E+00	1.22E-01	6.12E-03	
135-CS											
137-CS	1.21E+01	6.04E-01	2.18E-03	1.09E-04	4.98E-02	2.49E-03	1.45E+02	7.23E+00	1.81E-01	9.04E-03	
141-CE	<2.3E-04		<1.5E-05		<4.6E-05		<8.8E-03		<2.1E-04		
144-CE	5.77E-03	2.89E-04	<4.0E-05		1.30E-03	4.94E-04	1.88E-01	4.89E-02	<8.0E-04		
152-EU											
154-EU											
155-EU											
235-U											
238-U											
238-PU	7.42E-05	1.26E-05	7.06E-06	1.06E-06	4.18E-06	7.95E-07	1.14E-04	8.01E-06	1.66E-06	1.66E-07	
239-PU	5.06E-05	9.60E-06	2.91E-06	6.98E-07	2.43E-06	6.09E-07	9.25E-05	6.48E-06	1.93E-06	1.93E-07	
241-PU	1.03E-02	2.78E-03	9.38E-04	2.34E-04	1.30E-03	5.12E-04	1.30E-02	9.11E-04	2.58E-04	4.90E-05	
241-AM	2.04E-05	1.02E-06	1.57E-06	4.39E-07	2.56E-06	4.87E-07	1.63E-04	5.38E-05	3.93E-06	2.08E-06	
242-CM	3.85E-05	1.93E-06	1.36E-06	4.63E-07	3.21E-06	6.10E-07	3.23E-04	8.40E-05	<3.9E-06		
244-CM	4.60E-05	2.30E-06	1.37E-06	4.12E-07	1.08E-06	3.24E-07	6.17E-05	3.27E-05	6.46E-06	2.71E-06	

# RADIOACTIVE WASTE SAMPLE LISTING

S A I   D A T A B A S E

PLANT NAME:	1	1	1	1	1
UNIT NUMBER:					
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	SEACAST	SEACAST	SEACAST	SEACAST	SEACAST
START-UP DATE:	1-DEC-72	1-DEC-72	1-DEC-72	1-DEC-72	1-DEC-72
SAMPLE TYPE:	FILTER CARTRIDGE	RESIN	RESIN	FILTER CARTRIDGE	DRY ACTIVE WASTE
SAMPLE SUB-TYPE:	SECONDARY	SECONDARY	SECONDARY	PRIMARY	SECONDARY
SAMPLING DATE:	12-SEP-83	20-SEP-83	20-SEP-83	21-SEP-83	21-SEP-83
SAMPLE NUMBER:	10295	10296	10297	10298	10299

Concentrations in microcuries/gram

A-157

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<2.9E-04		<4.8E-05		<4.5E-04		8.79E-03	2.11E-03		
14-C	1.20E-03	1.08E-04	<7.7E-05		<7.0E-05		1.12E-01	5.60E-03	<3.8E-04	
54-MN	2.78E-02	4.45E-03	<1.3E-07		<5.2E-08		5.34E+00	2.67E-01	1.19E-04	4.65E-05
55-FE	3.67E-01	3.30E-02	1.68E-03	1.01E-04	2.20E-02	2.20E-03	4.90E+02	2.45E+01	1.75E-01	1.23E-02
58-CO	2.40E+00	1.20E-01	<1.4E-07		<6.1E-08		2.15E+01	1.08E+00	1.59E-03	1.11E-04
60-CO	1.54E+00	7.71E-02	3.27E-06	1.63E-07	4.13E-06	3.30E-07	7.31E+01	3.65E+00	1.78E-03	1.25E-04
59-NI							1.99E-01	9.95E-03		
63-NI	2.49E-01	1.25E-02	1.51E-04	1.21E-05	2.33E-04	1.16E-05	2.25E+01	1.13E+00	1.62E-02	8.10E-04
90-SR	5.02E-04	2.51E-05	<8.4E-06		<5.0E-06		2.95E-03	1.48E-04	<1.2E-04	
93-ZR	2.96E-02	1.16E-02					2.41E+00	1.21E-01		
94-NB							5.05E-02	2.53E-03		
99-TC	<3.9E-05		<2.7E-05		<4.4E-04		1.32E-03	3.30E-04	<1.0E-04	
106-RU	<1.5E-02		<1.1E-06		<5.4E-07		<4.6E-01		<1.4E-04	
110M-AG	4.49E-02	5.84E-03	<1.9E-07		<9.5E-08		3.33E-01	1.80E-01	<2.2E-05	
125-SB	2.14E-02	1.33E-02	<2.1E-06		<4.2E-07		2.30E+00	5.29E-01	<1.0E-04	
129-I	<1.6E-05		<5.7E-05		<1.1E-05		<5.3E-05		<9.7E-05	
134-CS	1.16E-02	5.23E-03	<7.7E-07		8.96E-07	5.37E-08	<5.0E-02		3.28E-04	2.62E-05
135-CS										
137-CS	<1.7E-03		1.81E-06	6.34E-07	1.65E-06	3.46E-07	<3.5E-01		6.29E-04	7.55E-05
141-CE	<2.3E-04		<1.6E-07		<6.8E-08		<3.8E-02		<1.3E-05	
144-CE	1.69E-02	1.35E-03	<6.1E-07		<2.4E-07		2.24E+00	4.03E-01	<4.5E-05	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	1.91E-05	9.53E-07	8.48E-07	1.27E-07	3.42E-07	3.77E-08	4.41E-03	2.21E-04	4.96E-06	2.88E-06
239-PU	1.76E-05	8.82E-07	6.29E-07	1.13E-07	3.65E-07	4.01E-08	3.97E-03	1.99E-04	7.46E-06	3.51E-06
241-PU	1.83E-03	9.14E-05	1.25E-04	3.99E-05	6.35E-05	1.52E-05	2.90E-01	1.45E-02	3.90E-03	3.51E-04
241-AM	6.81E-05	6.13E-06	5.20E-06	1.56E-06	7.43E-07	4.09E-07	8.78E-03	4.39E-04	1.03E-05	2.99E-06
242-CM	7.59E-05	7.59E-06	1.72E-05	1.89E-06	2.35E-06	8.22E-07	3.76E-02	1.88E-03	5.28E-05	7.39E-06
244-CM	2.59E-05	3.88E-06	6.10E-07	3.23E-07	7.43E-07	4.09E-07	1.90E-03	9.50E-05	1.34E-05	3.35E-06

# RADIOACTIVE WASTE SAMPLE LISTING

SAI DATABASE

PLANT NAME:		QUAD CITIES		QUAD CITIES		QUAD CITIES		PEACH BOTTOM
UNIT NUMBER:	1	1		1		1		3
PLANT TYPE:	PWR	BWR		BWR		BWR		BWR
PLANT LOCATION:	SEACOAST	INLAND		INLAND		INLAND		INLAND
START-UP DATE:	1-DEC-72	1-AUG-72		1-AUG-72		1-AUG-72		1-DEC-74
SAMPLE TYPE:	DRY ACTIVE WASTE	RESIN		RESIN		DRY ACTIVE WASTE		REACTOR COOLANT
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY		PRIMARY		PRIMARY		TOTAL
SAMPLING DATE:	21-SEP-83	25-AUG-83		26-AUG-83		26-AUG-83		30-SEP-83
SAMPLE NUMBER:	10300	10318		10319		10320		10345

Concentrations in microcuries/gram

A-158

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H									3.77E-04	5.28E-05
14-C	<6.4E-04		<9.7E-05		<6.3E-04		<2.2E-05		<3.4E-05	
54-MN	4.32E-03	2.59E-04	1.42E-03	2.98E-04	1.96E-02	4.70E-03	1.83E+00	9.17E-02	2.50E-06	3.25E-07
55-FE	9.21E-02	4.61E-03							7.44E-06	8.18E-07
58-CO	5.36E-02	2.68E-03	6.63E-04	3.98E-04	<2.3E-03		4.01E-02	9.63E-03	2.51E-06	3.51E-07
60-CO	7.34E-02	3.67E-03	5.00E-02	2.50E-03	3.75E-01	1.88E-02	3.96E+00	1.98E-01	3.37E-04	1.64E-05
59-NI			<1.0E-03		<4.2E-04				<4.7E-05	
63-NI	1.64E-02	1.15E-03	4.82E-04	8.20E-05	4.74E-03	2.37E-04	1.29E-03	6.46E-05	6.71E-06	3.42E-06
90-SR	<1.0E-04		2.13E-04	1.07E-05	3.01E-03	1.50E-04	4.64E-05	4.64E-06	2.98E-06	4.77E-07
95-ZR	1.55E-03	5.58E-04								
94-NB					<3.3E-05				<1.6E-06	
99-TC	<1.8E-04		<1.0E-05		<6.5E-05		<2.1E-04		<3.1E-06	
106-RU	<6.9E-04		<7.5E-04		<1.5E-02		<2.0E-02		<2.3E-05	
110M-AG	1.06E-03	2.96E-04	<1.6E-04				<3.8E-03		4.76E-07	2.86E-07
125-SB			<6.0E-04				<1.2E-02		<1.7E-05	
129-I	<1.3E-04		<2.4E-05		1.73E-05	4.32E-06	<9.8E-05		<3.0E-07	
134-CS	8.82E-03	4.41E-04	3.20E-03	1.92E-04	1.81E-01	9.04E-03	3.13E-02	3.76E-03	3.81E-05	1.89E-06
135-CS										
137-CS	1.75E-02	8.74E-04	2.34E-02	1.17E-03	7.45E-01	3.72E-02	2.29E-01	1.14E-02	3.31E-05	8.94E-06
141-CE	<1.6E-04		<1.4E-04		5.98E-02	2.99E-03	1.44E-02	3.02E-03	<4.1E-06	
144-CE	1.99E-03	7.56E-04	2.03E-04	7.51E-05	9.24E-04	4.53E-04	6.88E-03	4.61E-03	<4.7E-06	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	6.30E-06	2.52E-06	6.99E-06	1.40E-06	3.22E-05	1.61E-06	1.54E-05	7.69E-07	3.07E-08	9.37E-09
239-PU	3.28E-06	1.80E-06	7.32E-06	1.46E-06	1.04E-05	6.22E-07	6.13E-06	3.68E-07	2.99E-08	9.43E-09
241-PU	1.69E-03	4.39E-04	7.98E-03	2.55E-03	1.51E-03	2.27E-04	1.04E-03	1.04E-04	8.26E-06	2.76E-06
241-AM	1.17E-05	2.46E-06	1.37E-06	1.92E-07	1.04E-05	1.25E-06	5.38E-06	3.23E-07	1.95E-08	7.04E-09
242-CM	2.74E-05	4.11E-06	1.49E-06	2.38E-07	2.14E-05	2.14E-06	2.16E-06	2.37E-07	1.10E-09	6.60E-10
244-CM	2.69E-05	3.77E-06	6.09E-06	4.27E-07	2.69E-05	2.15E-06	1.32E-05	6.58E-07	<9.8E-09	

# RADIOACTIVE WASTE SAMPLE LISTING

S A I   D A T A B A S E

PLANT NAME:	PEACH BOTTOM	PEACH BOTTOM	DRESDEN
UNIT NUMBER:	3	3	2
PLANT TYPE:	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND
START-UP DATE:	1-DEC-74	1-DEC-74	1-AUG-83
SAMPLE TYPE:	RESIN	DRY ACTIVE WASTE	DRY ACTIVE WASTE
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	TOTAL
SAMPLING DATE:	12-OCT-83	07-OCT-83	19-OCT-83
SAMPLE NUMBER:	10347	10348	10390

Concentrations in microcuries/gram

A-159

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	2.10E-04	1.01E-04	<9.6E-03		1.92E-02	9.60E-04			7.24E-04	3.62E-05
14-C	4.37E-04	6.55E-05	<2.9E-03		3.30E-04	1.65E-05	2.04E-03	3.27E-04	<4.7E-06	
54-MN	9.66E-03	2.90E-03	3.57E-02	1.50E-02	1.88E-04	8.81E-06	4.25E-03	4.25E-04	2.41E-05	1.45E-06
55-FE	4.05E-02	2.83E-03	1.56E+00	1.87E-01	1.75E-04	1.23E-05			7.83E-06	4.70E-06
58-CO	1.52E-02	2.88E-03	8.86E-02	1.60E-02	1.06E-02	4.90E-04	3.82E-01	1.91E-02	1.06E-04	5.30E-06
60-CO	4.95E-01	2.48E-02	2.72E+00	1.36E-01	5.03E-04	2.32E-05	2.49E-02	1.49E-03	3.07E-04	1.53E-05
59-NI	1.28E-03	3.85E-04	<1.1E-01		<1.1E-05				<1.4E-05	
63-NI	5.61E-02	2.80E-03	3.85E-02	6.16E-03	4.50E-05	2.25E-06	1.69E-02	1.01E-03	<4.0E-06	
90-SR	2.49E-04	1.49E-05	1.01E-03	5.35E-04	2.82E-07	1.49E-07	1.41E-03	8.46E-05	2.04E-07	9.60E-08
95-ZR			5.79E-02	2.66E-02	4.78E-04	2.16E-05	2.43E-02	1.22E-03	1.98E-10	7.94E-11
94-NB	<3.1E-05		<1.5E-03							
99-TC	<1.4E-04		<4.4E-04		<1.5E-06		<3.4E-05		<2.2E-07	
106-RU	<6.9E-03		<3.7E-02		<2.9E-05		<2.2E-03		<3.1E-06	
110M-AG	8.69E-03	1.65E-03	5.54E-02	2.77E-03	<2.2E-06		<1.5E-04		<5.9E-07	
125-SB	<5.7E-03		<3.2E-02				<1.5E-03		<2.3E-06	
129-I	<1.2E-05		<2.8E-04		<1.2E-07		<8.1E-05		<1.1E-07	
134-CS	2.26E-01	1.13E-02	7.02E-01	3.51E-02	<3.3E-06		<2.5E-04		<3.7E-07	
135-CS										
137-CS	4.58E-01	2.29E-02	8.60E-01	4.30E-02	<2.6E-06		<2.0E-04		<3.5E-07	
141-CE	<1.4E-05		<3.9E-03		1.12E-07	4.03E-08	<2.2E-04		1.56E-05	6.08E-06
144-CE	<1.9E-05		<1.4E-03		2.13E-07	5.54E-08	<2.8E-04		<2.8E-04	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	3.53E-06	3.88E-07	2.00E-04	4.40E-05			9.25E-06	1.85E-06	4.55E-08	8.85E-09
239-PU	1.47E-06	2.49E-07	7.02E-05	2.60E-05			4.16E-06	1.25E-06	4.91E-10	1.52E-10
241-PU	1.60E-04	4.80E-05	3.08E-02	7.08E-03			1.76E-03	3.17E-04	1.43E-05	2.49E-06
241-AM	1.30E-06	2.48E-07	4.40E-05	1.58E-05	2.95E-10	5.60E-11	3.64E-06	1.06E-06	5.62E-09	1.31E-09
242-CM	1.80E-06	3.41E-07	<2.4E-05				<1.3E-06		3.70E-09	9.62E-10
244-CM	1.39E-06	2.65E-07	<2.2E-05		1.26E-10	3.64E-11	8.90E-07	5.34E-07	1.80E-09	7.07E-10

# RADIOACTIVE WASTE SAMPLE LISTING

## SAI DATABASE

PLANT NAME:	DRESDEN	DRESDEN	DRESDEN	V. C. SUMMER	V. C. SUMMER
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	BWR	BWR	BWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-AUG-60	1-AUG-60	1-AUG-60	1-AUG-82	1-AUG-82
SAMPLE TYPE:	RESIN	EVAPORATOR BOTTOMS	FILTER SLUDGE	DRY ACTIVE WASTE	REACTOR COOLANT
SAMPLE SUB-TYPE:	RADWASTE	SOLID	PRIMARY	PRIMARY	TOTAL
SAMPLING DATE:	15-SEP-83	16-SEP-83	05-SEP-83	18-OCT-83	12-SEP-83
SAMPLE NUMBER:	103B4	103B5	103B6	10366	10364

Concentrations in microcuries/gram

A-160

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	7.84E-04	2.20E-04	9.55E-04	6.69E-05	1.27E-03	6.35E-05				
14-C	1.02E-03	1.02E-04	9.09E-04	4.54E-05	1.95E-05	7.99E-06	<1.9E-04		3.79E-06	3.03E-07
54-MN	5.82E-01	2.91E-02	4.62E-02	4.16E-03	8.29E-04	4.14E-05	7.17E-02	3.59E-03	1.61E-03	8.01E-05
55-FE	3.61E+00	2.89E-01	6.02E-01	1.08E-01	2.14E-02	5.78E-03				
58-CD	5.12E-02	3.33E-02	<1.8E-03		<2.0E-05		7.34E-01	3.67E-02	7.56E-03	3.63E-04
60-CD	9.57E+00	4.78E-01	1.01E+00	5.05E-02	1.7E-02	5.97E-04	1.38E-01	6.89E-03	5.48E-04	2.67E-05
59-NI	<7.4E-03		1.21E-02	1.09E-03	<5.5E-04		<6.2E-04		<1.1E-06	
63-NI	4.71E-02	2.36E-03	1.44E-02	7.22E-04	4.54E-04	9.54E-05	1.10E-02	8.80E-04	3.31E-06	2.23E-07
90-SR	3.11E-02	1.56E-03	6.26E-03	3.13E-04	5.78E-05	5.78E-06	2.91E-05	1.48E-05	2.53E-07	2.28E-08
95-ZR							3.64E-01	1.82E-02	4.02E-04	8.33E-05
94-NB	<6.9E-05						<4.7E-04		<2.1E-07	
99-TC	<1.3E-04		<1.5E-05		<3.1E-05		<4.1E-05		<3.2E-08	
106-RU	<6.4E-02		<1.1E-02		<9.6E-05		<8.1E-03		<5.5E-05	
110M-AG	<1.4E-02		<2.2E-03		<2.2E-05		<7.2E-04		<3.7E-06	
125-SB	<4.7E-02		<7.9E-03		<6.2E-05		<6.4E-03		<4.0E-05	
129-I	<1.5E-05		<1.7E-06		<8.3E-07		<3.5E-05		<2.6E-08	
134-CS	2.06E-01	1.03E-02	2.41E-02	1.93E-03	9.41E-05	4.42E-05	<9.4E-04		<5.9E-06	
135-CS										
137-CS	6.20E-01	3.10E-02	2.17E-01	1.08E-02	5.70E-04	2.85E-05	<7.7E-04		2.77E-05	1.52E-05
141-CE	<1.1E-02		4.10E-03	3.28E-04	<1.0E-04		<8.9E-04		<5.9E-07	
144-CE	<3.1E-03		3.70E-03	2.22E-04	<6.6E-05		<1.2E-03		<3.8E-07	
152-EU										
154-EU										
155-EU										
235-U										
238-U					<1.7E-03					
238-PU	5.77E-04	1.44E-04	3.92E-04	1.96E-05	7.87E-06	6.29E-07	1.20E-07	2.75E-08	3.55E-10	8.88E-11
239-PU	2.26E-04	5.89E-05	1.95E-04	9.76E-06	3.37E-06	4.04E-07	1.85E-07	3.33E-08	7.05E-10	1.27E-10
241-PU	1.84E-02	4.60E-03	2.40E-02	1.20E-03	6.93E-04	1.18E-04	2.20E-04	8.80E-05	3.72E-08	1.67E-08
241-AM	6.66E-05	2.67E-05	2.13E-04	1.07E-05	4.24E-06	6.36E-07	7.06E-07	2.33E-07	<8.2E-10	
242-CM	4.05E-05	2.03E-05	4.15E-04	2.07E-05	2.62E-06	6.28E-07	<1.7E-07		<1.8E-10	
244-CM	5.60E-05	2.35E-05	4.95E-05	2.48E-06	5.68E-06	7.38E-07	1.96E-07	1.24E-07	5.63E-11	3.54E-11

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	V. C. SUMMER	V. C. SUMMER	V. C. SUMMER	V. C. SUMMER	DRESDEN
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-AUG-82	1-AUG-82	1-AUG-82	1-AUG-82	1-AUG-60
SAMPLE TYPE:	FILTER CARTRIDGE	RESIN	REACTOR COOLANT	RESIN	DRY ACTIVE WASTE
SAMPLE SUB-TYPE:	RADWASTE	SECONDARY	TOTAL	PRIMARY	PRIMARY
SAMPLING DATE:	21-SEP-83	30-SEP-83	22-SEP-83	04-OCT-83	25-OCT-83
SAMPLE NUMBER:	10370	10374	10375	10377	10442

Concentrations in microcuries/gram

A-161

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H					9.92E-02	4.96E-03				
14-C	<3.7E-08				8.83E-06	3.95E-07	9.60E-04	4.80E-05	<1.5E-04	
54-MN	1.14E-05	5.69E-07	<1.7E-08		1.08E-04	5.04E-06	2.53E-03	2.28E-04	2.56E-03	3.58E-04
55-FE							2.72E-03	1.36E-04	1.84E-01	9.22E-03
58-CO	8.49E-05	4.24E-06	1.60E-07	7.20E-08	3.84E-04	1.53E-05	4.09E-02	2.04E-03	<9.2E-04	
60-CO	6.93E-06	3.47E-07	1.30E-06	6.50E-08	3.69E-05	1.49E-06	2.46E-02	1.23E-03	5.90E-02	2.95E-03
59-NI	<5.9E-07				<1.5E-06		<6.3E-04			
63-NI	5.20E-07	1.09E-07			1.54E-06	2.22E-07	4.02E-03	2.01E-04	<6.5E-04	
90-SR	4.39E-05	1.54E-05	<1.1E-06		1.29E-07	2.45E-08	1.31E-04	2.10E-05	5.06E-05	3.14E-05
95-ZR	1.72E-05	8.61E-07			1.31E-05	5.87E-07	<9.5E-04			
94-NB	<5.0E-08				<1.7E-07		<4.7E-05			
99-TC	<9.5E-09				<3.5E-05		<5.0E-05		<2.1E-05	
106-RU	<5.8E-07		<1.6E-07		<5.6E-06		<7.2E-04		<8.2E-04	
110M-AG	<3.8E-08		<2.8E-08		<5.5E-07		<1.1E-04		<1.9E-04	
125-SB	<3.9E-07		<1.1E-07				6.82E-04	4.30E-04	<1.2E-03	
129-I	<7.4E-09				<3.7E-08		<2.1E-05		<2.6E-05	
134-CS	<6.3E-08		<1.4E-08		<5.6E-07		<7.9E-05		<8.3E-04	
135-CS										
137-CS	<4.8E-08				<1.6E-06		<5.2E-04		5.19E-03	3.11E-04
141-CE	<9.3E-11		<4.1E-08		<4.5E-07		<3.9E-05		<6.5E-05	
144-CE	<8.0E-11		<1.0E-07		1.10E-07	7.26E-08	<4.3E-05		<2.0E-04	
152-EU										
154-EU										
155-EU										
235-U										
238-U									<1.7E-02	
238-PU	1.06E-08	1.70E-09			3.71E-09	1.38E-09	1.09E-06	1.85E-07	2.31E-05	3.00E-06
239-PU	1.44E-08	2.02E-09			8.46E-09	2.15E-09	2.74E-07	9.05E-08	7.44E-06	1.64E-06
241-PU	5.06E-07	2.68E-07			6.95E-07	1.95E-07	2.36E-05	1.06E-05	1.55E-03	5.43E-04
241-AM	1.62E-09	3.24E-10			1.22E-10	5.49E-11	7.77E-08	3.73E-08	9.00E-05	2.34E-05
242-CM	<7.8E-11				<3.4E-10		<5.9E-08		1.00E-06	6.00E-07
244-CM	1.14E-09	2.75E-10			<1.1E-09		7.32E-08	3.66E-08	6.67E-05	2.00E-05

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	ROBINSON	ROBINSON	ROBINSON	ROBINSON	ROBINSON
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-MAR-71	1-MAR-71	1-MAR-71	1-MAR-71	1-MAR-71
SAMPLE TYPE:	RESIN	RESIN	FILTER	FILTER	FILTER
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	RADWASTE	RADWASTE	RADWASTE
SAMPLING DATE:	24-OCT-83	24-OCT-83	04-AUG-83	04-AUG-83	04-AUG-83
SAMPLE NUMBER:	10399	10400	10401	10402	10403

Concentrations in microcuries/gram

A-162

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<6. 5E-04		<6. 2E-04		<4. 9E-06		<2. 6E-06		<6. 5E-06	
14-C	3. 56E-02	1. 78E-03	2. 40E-02	1. 20E-03	3. 86E-05	2. 31E-06	6. 24E-06	1. 12E-06	8. 50E-06	1. 45E-06
54-MN	6. 63E-01	7. 96E-02	1. 10E+00	5. 48E-02	1. 31E-05	5. 37E-06	3. 10E-05	7. 13E-06	1. 55E-05	4. 19E-06
55-FE	3. 19E+00	1. 60E-01	5. 62E+00	2. 81E-01	1. 21E-03	6. 04E-05	1. 01E-02	5. 04E-04	1. 35E-03	6. 74E-05
58-CO	5. 95E-01	1. 01E-01	3. 93E-01	5. 90E-02	8. 43E-05	1. 01E-05	1. 62E-04	1. 30E-05	5. 14E-05	8. 22E-06
60-CO	1. 86E+01	9. 28E-01	1. 68E+01	8. 39E-01	1. 94E-03	9. 71E-05	3. 93E-03	1. 96E-04	1. 27E-03	6. 33E-05
59-NI	1. 80E-01	8. 99E-03	9. 66E-02	4. 83E-03	3. 72E-05	1. 56E-05	5. 15E-05	1. 70E-05	6. 43E-05	3. 09E-05
63-NI	1. 37E+01	6. 85E-01	1. 04E+01	5. 22E-01	4. 80E-04	2. 40E-05	7. 08E-04	3. 54E-05	4. 96E-04	2. 48E-05
90-SR	2. 46E-02	1. 23E-03	1. 51E-02	7. 54E-04	5. 53E-07	2. 66E-07	5. 08E-07	2. 49E-07	1. 82E-06	5. 08E-07
95-ZR					3. 47E-05	2. 26E-05	<5. 7E-05			
94-NB	<6. 7E-05		<4. 8E-05		<1. 2E-06		<1. 8E-06		<4. 3E-06	
99-TC	<4. 3E-04		<2. 2E-04		<4. 1E-07		<2. 2E-06		<3. 8E-07	
106-RU	<2. 0E-01		<1. 5E-01		<1. 2E-05		<1. 5E-05		<9. 9E-06	
110M-AG	<4. 2E-02		<2. 9E-02		1. 66E-05	3. 98E-06	3. 69E-05	3. 69E-06	2. 19E-05	3. 28E-06
125-SB	<1. 4E-01		<2. 4E-01		<7. 1E-06		<2. 3E-05		<1. 3E-05	
129-I	<4. 9E-05		<1. 1E-05		<5. 1E-07		<4. 3E-07		<4. 0E-06	
134-CS	4. 00E-01	5. 60E-02	<9. 7E-02		<1. 1E-06		<1. 3E-06		<8. 9E-07	
135-CS										
137-CS	1. 32E+00	6. 59E-02	7. 99E-01	4. 79E-02	<1. 3E-06		<1. 5E-06		<1. 1E-06	
141-CE	<2. 3E-04		<4. 1E-05		<3. 4E-06		<5. 2E-06		<2. 7E-06	
144-CE	<2. 9E-04		2. 48E-04	9. 67E-05	<1. 4E-06		<4. 4E-06		<2. 3E-06	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	6. 47E-05	3. 88E-06	8. 72E-05	4. 36E-06	2. 25E-07	4. 50E-08	4. 54E-08	7. 72E-09	1. 10E-07	8. 81E-09
239-PU	3. 28E-05	2. 30E-06	3. 78E-05	1. 89E-06	8. 93E-08	2. 86E-08	3. 06E-08	6. 43E-09	3. 86E-08	5. 41E-09
241-PU	2. 84E-03	1. 42E-04	4. 68E-03	4. 21E-04	2. 59E-05	6. 98E-06	1. 83E-05	3. 85E-06	1. 17E-05	2. 80E-06
241-AM	1. 15E-06	3. 45E-07	3. 94E-05	1. 97E-06	1. 01E-07	2. 84E-08	1. 19E-07	4. 06E-08	6. 75E-08	3. 44E-08
242-CM	3. 46E-07	2. 18E-07	3. 72E-06	2. 60E-07	<5. 1E-08		<5. 1E-08		<2. 6E-08	
244-CM	<3. 2E-07		2. 71E-05	1. 35E-06	6. 21E-08	2. 24E-08	4. 57E-08	2. 51E-08	<4. 3E-08	



# RADIOACTIVE WASTE SAMPLE LISTING

## SAI DATABASE

PLANT NAME:	ROBINSON	ROBINSON	ROBINSON	ROBINSON	ROBINSON
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-MAR-71	1-MAR-71	1-MAR-71	1-MAR-71	1-MAR-71
SAMPLE TYPE:	FILTER	DRY ACTIVE WASTE	FUEL POOL	FUEL POOL	FUEL POOL
SAMPLE SUB-TYPE:	FUEL POOL	SMEAR	LIGUID	LIGUID	LIGUID
SAMPLING DATE:	23-JUN-83	19-AUG-83	23-JUN-83	30-SEP-83	15-OCT-83
SAMPLE NUMBER:	10404	10405	10460	10461	10462

Concentrations in microcuries/gram

A-163

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<4.1E-06		<1.8E-03		3.33E-03	1.67E-04	2.96E-03	1.48E-04	2.45E-03	1.23E-04
14-C	1.99E-06	9.77E-07	<5.9E-04		4.15E-06	1.45E-06	<1.9E-06		3.25E-06	1.36E-06
54-MN	<4.4E-06		1.68E-03	2.52E-04	9.35E-07	4.21E-07	<2.2E-07		<9.1E-08	
55-FE	1.41E-03	1.27E-04	4.41E-02	2.21E-03	<4.9E-06		<2.5E-06		1.35E-05	5.41E-06
58-CD	<1.1E-05		3.96E-02	1.98E-03	<2.9E-06		5.49E-06	9.33E-07	7.46E-07	3.73E-07
60-CD	1.34E-02	6.70E-04	4.67E-02	2.34E-03	3.81E-05	1.90E-06	7.21E-05	3.61E-06	2.92E-05	1.46E-06
59-NI	<5.6E-06		<8.2E-04		<6.2E-06		<1.8E-06		<5.8E-06	
63-NI	6.13E-04	3.07E-05	1.13E-02	5.63E-04	9.78E-06	1.27E-06	9.08E-06	1.18E-06	1.87E-05	1.31E-06
90-SR	5.36E-07	2.89E-07	<6.4E-05		<1.9E-07		<2.0E-07		2.24E-07	1.21E-07
95-ZR			<1.8E-03							
94-NB	<7.6E-07		<9.0E-05		<6.9E-07		<3.2E-07		<5.8E-07	
99-TC	<2.6E-07		<3.5E-05		<5.2E-08		<1.3E-07		<5.4E-08	
106-RU	<2.8E-05		<7.9E-04		<1.0E-06		<1.6E-06		<6.6E-07	
110M-AG	<7.3E-06		<1.3E-02		<2.3E-07				<1.5E-07	
125-SB	<6.9E-05		<8.0E-04		3.28E-06	7.87E-07	5.88E-06	2.76E-06	4.56E-06	4.10E-07
129-I	<7.8E-07		<3.1E-05		<5.4E-08		<1.1E-07		<3.8E-08	
134-CS	<2.4E-06		6.99E-02	3.50E-03	<8.7E-08		<1.7E-07		<7.8E-08	
135-CS										
137-CS	<2.8E-06		9.97E-02	4.99E-03	6.90E-06	4.14E-07	8.82E-07	5.56E-07	4.97E-06	3.48E-07
141-CE	<2.2E-05		<2.9E-04		<1.6E-06		<3.3E-07		<1.3E-07	
144-CE	<8.6E-06		<3.2E-04		<5.2E-07		<6.1E-07		<3.5E-07	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	4.07E-08	6.11E-09	1.17E-06	3.28E-07	2.61E-09	8.88E-10	1.29E-08	2.58E-09	3.17E-09	6.97E-10
239-PU	1.97E-08	4.15E-09	1.29E-06	3.48E-07	2.45E-09	8.83E-10	3.56E-08	4.28E-09	1.47E-09	4.70E-10
241-PU	8.15E-06	2.20E-06	2.87E-04	1.64E-04	7.21E-07	2.02E-07	5.46E-06	1.47E-06	4.11E-07	2.09E-07
241-AM	1.86E-07	1.17E-07	9.90E-06	4.95E-06	1.43E-09	6.88E-10	5.85E-09	1.70E-09	2.00E-09	7.59E-10
242-CM	<2.0E-07		<3.2E-06		9.31E-09	2.61E-09	<1.2E-09		9.92E-10	6.25E-10
244-CM	<2.1E-07		<1.9E-06		1.52E-09	7.13E-10	3.43E-09	1.31E-09	7.40E-10	4.66E-10

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	ROBINSON	ROBINSON	ROBINSON	ROBINSON	ROBINSON
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-MAR-71	1-MAR-71	1-MAR-71	1-MAR-71	1-MAR-71
SAMPLE TYPE:	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	REACTOR COOLANT	REACTOR COOLANT
SAMPLE SUB-TYPE:	LIQUID	LIQUID	LIQUID	TOTAL	TOTAL
SAMPLING DATE:	19-AUG-83	23-SEP-83	05-OCT-83	29-SEP-83	01-OCT-83
SAMPLE NUMBER:	10466	10467	10468	10457	10458

Concentrations in microcuries/gram

A-164

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	2.22E-02	1.11E-03	5.35E-03	2.67E-04	7.04E-03	3.52E-04	1.40E-02	7.02E-04	1.71E-02	8.54E-04
14-C	2.52E-04	1.26E-05	3.86E-05	1.93E-06	8.89E-05	4.44E-06	3.29E-05	2.29E-06	4.98E-05	2.49E-06
54-MN	9.28E-04	5.01E-04	5.65E-04	1.47E-04	3.19E-04	1.02E-04	7.17E-07	1.00E-07	3.39E-07	7.79E-08
55-FE	1.06E-01	5.31E-03	2.06E-02	1.65E-03	1.31E-02	1.18E-03	2.17E-05	2.43E-06	1.39E-05	2.53E-06
58-CD	6.51E-03	9.11E-04	6.74E-02	3.37E-03	3.18E-02	1.59E-03	3.13E-04	1.29E-05	1.69E-04	6.17E-06
60-CD	1.41E-01	7.03E-03	3.71E-02	1.85E-03	1.87E-02	9.34E-04	3.58E-05	3.43E-06	1.57E-05	1.14E-06
59-NI	4.80E-04	4.32E-05	3.21E-04	3.53E-05	1.14E-04	3.66E-05	4.56E-07	1.87E-07	2.54E-07	1.35E-07
63-NI	3.36E-02	1.68E-03	1.58E-02	7.88E-04	6.89E-03	3.45E-04	1.72E-05	1.39E-06	7.01E-06	1.17E-06
90-SR	5.21E-06	5.21E-07	1.12E-06	4.01E-07	<5.7E-07		1.07E-08	5.46E-09	<1.9E-07	
95-ZR	8.51E-04	5.02E-05					9.02E-06	3.19E-06	4.19E-06	6.70E-07
94-NB	5.67E-06	8.51E-07	<3.8E-06		<1.6E-06		<8.4E-07		<6.5E-07	
99-TC	<6.8E-07		<5.0E-06		<8.9E-06		<4.3E-07		<7.5E-07	
106-RU	<1.2E-03		<4.9E-04		<3.7E-04		<7.2E-06		<9.6E-06	
110M-AG	1.83E-03	1.47E-04	5.02E-04	1.06E-04	3.21E-04	6.10E-05	1.41E-06	1.98E-07	9.80E-07	5.88E-08
125-SB	<1.7E-03		5.73E-04	3.32E-04	8.78E-04	3.77E-04			<1.1E-05	
129-I	<3.3E-07		<4.6E-05		<4.2E-07		<8.3E-08		<2.8E-08	
134-CS	1.18E-03	1.18E-04	1.68E-03	8.42E-05	1.15E-03	1.15E-04	7.60E-04	3.80E-05	1.44E-03	7.18E-05
135-CS										
137-CS	7.82E-04	3.83E-04	1.79E-03	1.43E-04	1.09E-03	1.20E-04	9.33E-04	4.67E-05	1.83E-03	9.14E-05
141-CE	<4.0E-06		<1.5E-06		<1.7E-06		<2.0E-07		<5.4E-07	
144-CE	1.77E-05	4.43E-06	<1.1E-06		<1.4E-06		<1.6E-07		<5.0E-07	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	2.11E-06	1.05E-07	3.59E-07	3.23E-08	2.64E-07	2.38E-08	4.98E-09	1.47E-09	2.27E-09	6.22E-10
239-PU	1.50E-06	8.99E-08	2.91E-07	2.91E-08	1.76E-07	1.76E-08	3.55E-09	1.26E-09	2.72E-09	6.52E-10
241-PU	1.64E-04	1.64E-05	3.10E-05	3.71E-06	1.45E-05	3.33E-06	1.29E-06	3.08E-07	8.77E-07	2.64E-07
241-AM	2.08E-06	1.04E-07	4.91E-07	3.93E-08	2.42E-07	2.17E-08	4.27E-09	1.39E-09	3.84E-09	1.00E-09
242-CM	4.54E-07	4.09E-08	2.01E-07	3.02E-08	2.22E-07	2.44E-08	2.94E-09	1.28E-09	3.78E-10	1.32E-10
244-CM	1.97E-06	9.86E-08	3.10E-07	3.10E-08	1.58E-07	1.74E-08	1.72E-09	8.68E-10	6.06E-10	4.00E-10

# RADIOACTIVE WASTE SAMPLE LISTING

SAI DATABASE

PLANT NAME:	ROBINSON	ROBINSON	ROBINSON	ROBINSON	BRUNSWICK
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	SEACOAST
START-UP DATE:	1-MAR-71	1-MAR-71	1-MAR-71	1-MAR-71	1-MAR-77
SAMPLE TYPE:	REACTOR COOLANT	FILTER CARTRIDGE	FILTER CARTRIDGE	DRY ACTIVE WASTE	FILTER SLUDGE
SAMPLE SUB-TYPE:	TOTAL	FUEL POOL	FUEL POOL	PRIMARY	PRIMARY
SAMPLING DATE:	12-OCT-83	30-SEP-83	15-OCT-83	20-OCT-83	25-OCT-83
SAMPLE NUMBER:	10459	10472	10473	10476	10407

Concentrations in microcuries/gram

A-165

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	2.73E-02	1.36E-03	<6.6E-08		<5.8E-08		<4.8E-04		8.09E-04	8.90E-05
14-C	5.55E-08	1.11E-08	2.09E-07	1.46E-08	2.61E-08	7.32E-09	4.76E-04	7.62E-05	2.21E-01	1.11E-02
54-MN	5.15E-07	9.78E-08	2.01E-07	1.23E-07	4.47E-08	2.33E-08	2.94E-02	3.82E-03	1.06E+00	5.32E-02
55-FE	1.01E-05	7.91E-07	1.47E-05	1.03E-06	2.86E-06	2.00E-07	1.22E+00	8.54E-02	1.47E+00	2.21E-01
58-CD	1.57E-04	5.79E-06	8.01E-07	1.68E-07	3.90E-07	4.13E-08	1.39E-01	6.94E-03	2.48E-01	1.99E-02
60-CD	1.85E-05	1.26E-06	7.30E-05	3.65E-06	2.56E-06	1.28E-07	2.24E+00	1.12E-01	3.38E+00	1.69E-01
59-NI	1.04E-06	2.80E-07	<3.0E-07		<2.7E-08		9.90E-03	3.76E-03	<1.1E-03	
63-NI	1.59E-05	1.33E-06	<8.7E-08		5.05E-07	5.05E-08	4.84E-01	2.42E-02	4.66E-02	2.33E-03
90-SR	<1.7E-07		<5.4E-09		<6.6E-09		1.28E-04	5.25E-05	3.29E-03	1.64E-04
95-ZR	5.19E-06	1.45E-06			8.71E-08	4.79E-08				
94-NB	<1.7E-06		<2.5E-08		<1.4E-08		<3.2E-04		<8.0E-04	
99-TC	<1.1E-06		<6.7E-09		<4.3E-09		<7.3E-04		<1.5E-05	
106-RU	<1.1E-05		<2.5E-07		<5.1E-08		<8.3E-03		<5.3E-02	
110M-AG	1.05E-06	5.26E-08	<6.1E-08		<1.1E-08		<1.9E-03		3.20E-02	2.24E-03
125-SB	5.87E-07	3.23E-07	<1.6E-07		2.17E-07	2.82E-08	1.37E-02	5.60E-03	<3.6E-02	
129-I	<5.7E-08		<4.3E-09		<1.9E-09		<8.3E-03		<2.4E-05	
134-CS	1.32E-03	6.62E-05	<2.4E-08		<7.3E-09		4.97E-03	8.45E-04	<5.1E-03	
135-CS										
137-CS	1.61E-03	8.05E-05	<2.9E-08		<6.3E-09		<9.6E-04		6.49E-02	1.75E-02
141-CE	<9.9E-08		<2.7E-08		<6.2E-09		<8.6E-05		<4.0E-03	
144-CE	<1.1E-07		<1.7E-08		<1.5E-08		<9.5E-05		<1.5E-02	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	3.68E-09	1.05E-09	5.07E-10	1.17E-10	3.04E-10	9.74E-11	1.08E-05	1.08E-06	7.79E-06	8.57E-07
239-PU	5.66E-09	1.29E-09	3.42E-10	9.25E-11	6.97E-10	1.46E-10	9.47E-06	1.04E-06	7.90E-06	8.69E-07
241-PU	7.68E-07	2.35E-07	3.99E-08	1.52E-08	4.16E-08	1.92E-08	8.73E-04	1.40E-04	1.19E-03	2.02E-04
241-AM	2.64E-08	3.09E-09	2.61E-10	9.65E-11	1.56E-09	5.79E-10	1.01E-05	9.08E-07	<6.4E-06	
242-CM	2.98E-09	1.20E-09	<8.9E-11		<3.6E-10		5.16E-06	7.23E-07	1.98E-05	6.73E-06
244-CM	2.54E-08	3.05E-09	2.42E-10	9.44E-11	6.48E-10	3.76E-10	7.89E-06	7.89E-07	<3.7E-06	

# RADIOACTIVE WASTE SAMPLE LISTING

S A I   D A T A B A S E

PLANT NAME:	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK
UNIT NUMBER:	1	2	1	2
PLANT TYPE:	BWR	BWR	BWR	BWR
PLANT LOCATION:	SEACOAST	SEACOAST	SEACOAST	SEACOAST
START-UP DATE:	1-MAR-77	1-NOV-75	1-MAR-77	1-NOV-75
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	REACTOR COOLANT	REACTOR COOLANT
SAMPLE SUB-TYPE:	RADWASTE	RADWASTE	TOTAL	TOTAL
SAMPLING DATE:	25-OCT-83	25-OCT-83	25-OCT-83	25-OCT-83
SAMPLE NUMBER:	10408	10409	10410	10412

Concentrations in microcuries/gram

A-166

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	3.25E-03	1.63E-04	<1.6E-04		2.39E-03	1.19E-04	5.87E-03	2.93E-04	<1.3E-03	
14-C	6.66E-05	3.33E-05	1.63E-04	3.09E-05	<2.6E-05		<2.0E-05		<2.9E-04	
54-MN	9.63E-02	4.81E-03	1.19E-01	5.93E-03	6.35E-05	3.17E-06	2.09E-04	1.05E-05	8.07E-02	4.03E-03
55-FE	5.55E-01	8.33E-02	2.82E+00	1.41E-01	6.66E-05	5.99E-06	9.52E-04	1.90E-04	8.34E-01	1.25E-01
58-CO	1.92E-02	9.58E-04	<4.4E-04		2.36E-06	1.49E-06	7.76E-05	3.88E-06	6.09E-03	8.53E-04
60-CO	3.30E-01	1.65E-02	7.19E-01	3.60E-02	6.52E-05	3.26E-06	4.68E-04	2.34E-05	2.55E-01	1.27E-02
59-NI	<3.3E-04		<1.1E-04		<7.8E-06		1.83E-06	4.58E-07	<7.9E-04	
63-NI	2.01E-02	1.01E-03	7.55E-02	3.78E-03	3.06E-05	4.90E-06	8.28E-06	3.97E-06	1.36E-02	6.81E-04
90-SR	5.11E-04	3.07E-05	2.26E-03	1.13E-04	<1.1E-06		9.86E-07	4.83E-07	1.67E-04	4.34E-05
95-ZR										
94-NB	<1.5E-04		<2.4E-04		<8.0E-06		<7.4E-06		<4.3E-04	
99-TC	<9.2E-06		<1.9E-04		<4.6E-07		<5.4E-07		<3.3E-04	
106-RU	<2.3E-03		<3.4E-03		<5.7E-06		<6.4E-06		<2.0E-03	
110M-AG	<2.5E-03		<6.7E-04		2.34E-05	3.98E-06	2.41E-05	2.65E-06		
125-SB	<1.7E-03		<2.6E-03		<3.4E-06				<1.4E-03	
129-I	<3.6E-05		<1.3E-05		<6.5E-07		<6.1E-07		<7.9E-05	
134-CS	6.53E-03	5.22E-04	5.61E-02	2.81E-03	<5.1E-07		5.80E-06	5.22E-07	1.88E-02	9.42E-04
135-CS										
137-CS	1.79E-02	8.96E-04	1.35E-01	6.77E-03	<9.0E-07		8.12E-06	3.33E-06	3.84E-02	1.92E-03
141-CE	<9.3E-04		<1.6E-02		<3.7E-07		1.30E-06	2.60E-07	<2.5E-05	
144-CE	<1.2E-03		<6.0E-02		<1.3E-06		1.95E-06	3.12E-07	<3.5E-04	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	2.22E-06	2.89E-07	<1.4E-05		3.19E-10	1.49E-10	1.36E-09	1.35E-10	2.35E-07	1.29E-07
239-PU	1.51E-06	2.42E-07	5.64E-06	6.21E-07	<2.2E-10		1.14E-09	1.25E-10	1.50E-06	3.30E-07
241-PU	9.02E-04	1.71E-04	5.79E-03	1.16E-03	2.00E-07	2.99E-08	3.17E-07	6.01E-08	4.32E-04	1.73E-04
241-AM	6.13E-06	1.47E-06	5.05E-06	1.41E-06	1.10E-09	4.69E-10	1.02E-09	3.87E-10	4.08E-06	1.59E-06
242-CM	1.25E-05	2.37E-06	1.12E-05	2.46E-06	1.44E-09	6.18E-10	3.98E-08	2.79E-09	2.90E-06	1.54E-06
244-CM	<1.3E-06		2.00E-06	9.00E-07	<5.0E-10		4.00E-09	7.60E-10	<1.7E-06	

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK
UNIT NUMBER:	1	1	1	1	2
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	SEACDAST	SEACDAST	SEACDAST	SEACDAST	SEACDAST
START-UP DATE:	1-MAR-77	1-MAR-77	1-MAR-77	1-MAR-77	1-NOV-75
SAMPLE TYPE:	RESIN	FILTER SLUDGE	RESIN	RESIN	FILTER SLUDGE
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	RADWASTE	RADWASTE	PRIMARY
SAMPLING DATE:	25-OCT-83	25-OCT-83	25-OCT-83	25-OCT-83	25-OCT-83
SAMPLE NUMBER:	10415	10416	10417	10418	10419

Concentrations in microcuries/gram

A-167

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	7.25E-04	1.89E-04	3.33E-03	2.66E-04	1.77E-03	1.59E-04	1.66E-03	1.66E-04	1.62E-03	2.27E-04
14-C	<7.6E-05		<5.2E-05		7.78E-04	5.45E-05	1.8E-04	2.69E-05	5.45E-05	2.78E-05
54-MN	5.76E-02	2.88E-03	3.60E-01	1.80E-02	2.50E-01	1.25E-02	2.3E-01	1.06E-02	4.40E-02	3.96E-03
55-FE	1.03E+00	1.03E-01	1.85E+00	1.85E-01	<1.2E-03		1.62E-03	1.46E-04	1.29E-01	1.93E-02
58-CO	1.11E-02	7.75E-04	9.71E-02	1.36E-02	6.75E-02	1.01E-02	1.48E-01	7.42E-03	8.16E-03	4.00E-03
60-CO	1.93E-01	9.65E-03	1.13E+00	5.65E-02	7.85E-01	3.93E-02	1.33E+00	6.65E-02	7.93E-01	3.97E-02
59-NI	<4.0E-04		3.58E-03	8.96E-04	<4.9E-04		<1.1E-03		2.43E-03	8.73E-04
63-NI	1.38E-02	6.89E-04	1.69E-02	8.47E-04	8.41E-03	4.21E-04	1.30E-02	6.51E-04	1.43E-01	7.14E-03
90-SR	9.34E-04	4.67E-05	9.21E-04	4.60E-05	6.47E-04	3.88E-05	1.15E-03	5.73E-05	3.35E-04	2.01E-05
95-ZR										
94-NB	<2.9E-04		<5.5E-04		<2.0E-04		<1.7E-04		<1.5E-04	
99-TC	<1.2E-05		<9.8E-05		<1.4E-05		<7.4E-05		<4.8E-05	
106-RU	<1.8E-03		<3.7E-02		<2.5E-02		<1.4E-02		<1.0E-02	
110M-AG	1.63E-03	1.04E-03	<6.5E-03		<4.5E-03		1.34E-02	2.27E-03	<2.1E-03	
125-SB	<1.3E-03		<2.4E-02		<1.7E-02		<1.1E-02		<8.4E-03	
129-I	<2.1E-05		<9.5E-06		<1.5E-05		9.38E-06	4.41E-06	<1.3E-05	
134-CS	4.44E-03	4.00E-04	<3.5E-03		<2.5E-03		3.50E-02	4.90E-03	5.28E-02	2.64E-03
135-CS										
137-CS	1.17E-02	7.04E-04	2.35E-02	1.20E-02	1.58E-02	8.37E-03	1.12E-01	5.62E-03	1.19E-01	5.94E-03
141-CE	<2.2E-03		7.70E-03	5.01E-03	<2.7E-04		<7.3E-04		2.63E-04	1.18E-04
144-CE	<2.6E-03		<2.1E-03		<2.9E-04		<7.6E-04		5.74E-04	1.32E-04
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	6.27E-06	8.15E-07	1.86E-05	1.86E-06	3.70E-06	4.44E-07	2.64E-06	3.97E-07	2.09E-06	4.18E-07
239-PU	1.47E-06	3.83E-07	2.34E-05	2.10E-06	1.75E-06	3.16E-07	1.89E-06	3.41E-07	1.03E-06	3.00E-07
241-PU	5.96E-04	1.25E-04	3.85E-03	7.31E-04	6.95E-04	1.25E-04	1.77E-04	4.44E-05	2.17E-04	7.80E-05
241-AM	1.62E-06	5.83E-07	6.15E-06	1.72E-06	1.15E-06	4.14E-07	4.93E-06	9.86E-07	5.42E-07	9.21E-08
242-CM	1.00E-05	1.60E-06	2.29E-05	3.66E-06	1.52E-06	5.47E-07	<9.1E-07		1.68E-06	1.68E-07
244-CM	1.19E-06	5.00E-07	1.84E-06	9.38E-07	9.17E-07	3.67E-07	6.50E-07	3.57E-07	2.42E-07	6.28E-08

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK
UNIT NUMBER:	1	2	1	1	1
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	SEACOAST	SEACOAST	SEACOAST	SEACOAST	SEACOAST
START-UP DATE:	1-MAR-77	1-NOV-75	1-MAR-77	1-MAR-77	1-MAR-77
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	DRY ACTIVE WASTE	RESIN	FILTER SLUDGE
SAMPLE SUB-TYPE:	TOTAL	TOTAL	SMEAR	RADWASTE	PRIMARY
SAMPLING DATE:	25-OCT-83	25-OCT-83	25-OCT-83	25-OCT-83	25-OCT-83
SAMPLE NUMBER:	10420	10422	10424	10425	10426

Concentrations in microcuries/gram

		<u>Value</u>	<u>Unc.</u>		<u>Value</u>	<u>Unc.</u>		<u>Value</u>	<u>Unc.</u>		<u>Value</u>	<u>Unc.</u>			
A-168	3-H	2.64E-03	1.32E-04		6.70E-03	3.35E-04		<1.2E-03			1.77E-03	6.02E-04	3.34E-03	2.00E-04	
	14-C	<2.2E-05			<1.7E-05			<5.9E-04			6.85E-04	1.64E-04	<8.1E-05		
	54-MN	4.11E-05	2.06E-06		3.00E-05	1.50E-06		6.01E-02	3.00E-03		1.70E-01	8.52E-03	4.48E-01	2.24E-02	
	55-FE	4.36E-04	6.53E-05		5.85E-05	8.78E-06		4.90E-01	4.90E-02		7.01E-02	7.71E-03	4.57E+00	1.14E+00	
	58-CO	6.01E-05	3.00E-06		1.85E-05	2.41E-06		6.75E-03	9.46E-04		1.34E-01	6.70E-03	1.48E-01	1.19E-02	
	60-CO	1.09E-04	5.44E-06		8.68E-05	4.34E-06		3.64E-01	1.82E-02		9.79E-01	4.89E-02	1.33E+00	6.66E-02	
	59-NI	<7.8E-06			<2.6E-05			4.06E-03	2.64E-03		<8.0E-04		<1.4E-03		
	63-NI	7.80E-05	4.68E-06		5.16E-05	4.65E-06		4.92E-02	2.46E-03		8.75E-03	5.25E-04	5.44E-02	2.72E-03	
	90-SR	<6.7E-07			<5.8E-07			1.66E-04	3.82E-05		6.74E-04	6.74E-05	2.85E-03	1.43E-04	
	95-ZR														
	94-NB	<5.8E-06			<2.0E-06			<6.5E-04			<6.0E-04		<1.6E-04		
	99-TC	<9.1E-07			<5.3E-07			<9.8E-05			<1.5E-05		<6.5E-04		
	106-RU	<6.4E-06			<5.5E-06			<2.2E-03			<8.7E-03		<3.1E-02		
	110M-AG	2.21E-05	3.31E-06		2.98E-05	2.09E-06		<4.6E-04			7.41E-03	1.48E-03	2.42E-02	4.35E-03	
	125-SB	<4.3E-06						<1.6E-03			<6.0E-03		<2.1E-02		
	129-I	<5.8E-07			<7.9E-07			<8.0E-05			<3.6E-04		<9.1E-05		
	134-CS	<6.3E-07			6.03E-06	5.43E-07		2.46E-02	1.23E-03		2.36E-02	1.18E-03	<3.0E-03		
	135-CS														
	137-CS	<9.1E-07			<9.2E-07			5.52E-02	2.76E-03		8.56E-02	4.28E-03	3.68E-02	1.03E-02	
	141-CE	<1.2E-06			1.28E-05	5.25E-06		<1.7E-04			<6.4E-04		<2.4E-03		
	144-CE	<3.7E-06			<5.4E-06			<2.7E-03			<8.6E-04		<7.8E-03		
	152-EU														
	154-EU														
	155-EU														
	235-U														
	238-U														
	238-PU	<3.8E-10			7.65E-10	1.22E-10		1.97E-06	5.71E-07		1.03E-05	6.16E-07	2.80E-06	3.92E-07	
	239-PU	<1.4E-10			2.34E-10	7.01E-11		2.60E-06	6.49E-07		6.06E-06	4.85E-07	2.27E-06	3.64E-07	
241-PU	3.54E-07	6.36E-08		7.91E-08	3.05E-08		3.71E-04	1.45E-04		2.74E-04	1.75E-04	7.44E-04	1.78E-04		
241-AM	9.16E-10	3.13E-10		7.50E-10	1.25E-10		2.69E-05	7.01E-06		2.62E-06	1.50E-06	1.15E-06	4.49E-07		
242-CM	<2.8E-10			7.68E-09	4.60E-10		7.04E-06	4.08E-06		<8.8E-07		2.56E-06	7.68E-07		
244-CM	<3.5E-10			4.54E-10	9.47E-11		9.29E-06	4.18E-06		<1.1E-06		<4.2E-07			

# RADIOACTIVE WASTE SAMPLE LISTING

## S A I D A T A B A S E

PLANT NAME:	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK
UNIT NUMBER:	1	2	1	2	1
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	SEACOAST	SEACOAST	SEACOAST	SEACOAST	SEACOAST
START-UP DATE:	1-MAR-77	1-NOV-75	1-MAR-77	1-NOV-75	1-MAR-77
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	REACTOR COOLANT	REACTOR COOLANT	DRY ACTIVE WASTE
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	TOTAL	TOTAL	PRIMARY
SAMPLING DATE:	25-OCT-83	25-OCT-83	25-OCT-83	25-OCT-83	25-OCT-83
SAMPLE NUMBER:	10427	10428	10429	10431	10433

Concentrations in microcuries/gram

A-169

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	3.53E-03	2.12E-04	3.59E-03	1.79E-04	3.71E-03	1.86E-04	6.28E-03	3.14E-04	<1.1E-03	
14-C	1.63E-04	4.90E-05	<4.3E-05		<1.9E-05		<2.5E-05		<3.6E-04	
54-MN	3.05E-02	1.53E-03	1.52E-02	7.60E-04	5.43E-05	2.71E-06	8.26E-05	4.13E-06	5.02E-02	2.51E-03
55-FE	2.09E-01	2.30E-02	6.23E-02	9.35E-03	1.93E-05	9.67E-07	1.06E-04	7.45E-06	2.39E-01	2.87E-02
58-CO	4.61E-03	3.68E-04	3.40E-03	4.08E-04	6.10E-05	3.05E-06	1.33E-04	6.66E-06	5.41E-03	9.19E-04
60-CO	9.56E-02	4.78E-03	1.07E-01	5.34E-03	5.39E-05	3.77E-06	2.41E-04	1.20E-05	3.07E-01	1.54E-02
59-NI	<2.1E-04		<2.6E-04		<3.0E-05		2.75E-06	1.32E-06	<2.5E-04	
63-NI	1.48E-02	7.42E-04	3.03E-02	1.52E-03	<1.2E-05		2.04E-06	2.44E-07	5.88E-03	1.59E-03
90-SR	1.48E-04	1.63E-05	1.90E-04	2.09E-05	8.05E-07	4.03E-07	9.17E-07	4.31E-07	7.90E-05	3.40E-05
95-ZR							5.49E-07	1.26E-07		
94-NB	<1.6E-04		<1.7E-04		<1.7E-06		<5.7E-06		<4.1E-04	
99-TC	<1.5E-04		<9.6E-05		<5.4E-07		<5.3E-07		<4.0E-05	
106-RU	<8.7E-04		<8.8E-04		<2.9E-06		<5.6E-06		<2.1E-03	
110M-AG	6.54E-04	5.89E-05	<1.7E-04		<3.8E-07		<8.4E-07		<4.2E-04	
125-SB	<5.9E-04		<6.5E-04		<2.2E-06		<3.8E-06		<1.5E-03	
129-I	<1.2E-05		<1.7E-05		<4.9E-07		<4.3E-07		<7.6E-05	
134-CS	1.88E-03	9.38E-05	6.41E-03	3.21E-04	<3.2E-07		3.61E-06	1.95E-06	1.87E-02	9.36E-04
135-CS										
137-CS	4.29E-03	3.43E-04	1.41E-02	7.06E-04	<3.2E-07		<5.6E-07		4.03E-02	2.01E-03
141-CE	<1.3E-04		6.49E-02	1.75E-02	<3.3E-06		9.96E-06	2.79E-06	<7.7E-05	
144-CE	<2.0E-04		<1.2E-04		<3.1E-06		<3.0E-06		<1.1E-04	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	2.38E-06	2.38E-07	7.74E-07	1.78E-07	<1.4E-09		<2.8E-09		3.96E-06	6.73E-07
239-PU	1.26E-06	1.76E-07	4.60E-07	1.38E-07	3.87E-10	6.14E-11	<1.8E-09		1.66E-06	4.33E-07
241-PU	9.29E-05	4.55E-05	1.43E-04	6.00E-05	1.50E-07	4.18E-08	8.20E-08	2.76E-08	3.60E-04	1.37E-04
241-AM	6.52E-06	3.91E-07	1.17E-06	5.63E-07	1.84E-10	5.31E-11	1.43E-10	5.07E-11	1.42E-06	4.12E-07
242-CM	1.05E-05	6.28E-07	1.29E-06	7.11E-07	<2.5E-11		1.97E-09	2.16E-10	2.19E-06	5.92E-07
244-CM	3.01E-05	1.50E-06	1.04E-06	5.28E-07	6.43E-11	3.21E-11	1.17E-10	4.69E-11	7.26E-07	2.98E-07

# RADIOACTIVE WASTE SAMPLE LISTING

SAI DATABASE

PLANT NAME:	BRUNSWICK	MONTICELLO	MONTICELLO	MONTICELLO	PILGRIM
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	SEACOAST	INLAND	INLAND	INLAND	SEACOAST
START-UP DATE:	1-MAR-77	1-JUL-71	1-JUL-71	1-JUL-71	1-DEC-72
SAMPLE TYPE:	RESIN	REACTOR COOLANT	FILTER SLUDGE	FILTER SLUDGE	RESIN
SAMPLE SUB-TYPE:	SECONDARY	LIQUID	PRIMARY	SECONDARY	SECONDARY
SAMPLING DATE:	25-OCT-83	03-OCT-83	29-SEP-83	29-SEP-83	01-NOV-83
SAMPLE NUMBER:	10434	10477	10478	10479	10494

Concentrations in microcuries/gram

A-170

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	2.52E-03	2.77E-04	5.73E-03	2.87E-04	4.48E-03	2.24E-04	1.14E-03	9.12E-05	1.04E-03	1.35E-04
14-C	<1.5E-04		<1.4E-05		<5.6E-05		5.77E-03	2.89E-04	1.36E-03	6.80E-05
54-MN	1.87E-01	9.33E-03	3.40E-05	5.44E-06	1.24E+00	6.21E-02	4.20E-02	6.29E-03	1.46E-02	7.32E-04
55-FE	5.83E-01	8.74E-02	<1.4E-05		4.23E+01	4.23E+00	4.86E-01	3.40E-02	1.61E-03	1.45E-04
58-CD	5.66E-02	2.83E-03	1.13E-04	7.91E-06	2.99E-01	7.18E-02	<2.7E-03		1.42E-02	7.09E-04
60-CD	5.50E-01	2.75E-02	2.64E-04	1.32E-05	1.15E+01	5.75E-01	4.32E-01	2.16E-02	8.31E-02	4.16E-03
59-NI	<5.9E-03		<3.3E-05		1.10E-02	6.58E-04	<3.5E-04		<1.1E-04	
63-NI	1.02E-02	9.14E-04	<7.3E-06		1.47E+00	7.34E-02	2.62E-02	1.31E-03	2.94E-03	1.47E-04
70-SR	6.85E-04	6.85E-05	1.93E-06	5.21E-07	2.54E-02	1.27E-03	3.24E-03	1.62E-04	8.87E-04	4.43E-05
95-ZR									<1.4E-03	
94-NB	<7.0E-04		<6.1E-06		<1.2E-04		<2.3E-05		<6.5E-05	
99-TC	<6.3E-05		<5.3E-07		<2.7E-04		<5.7E-05		<2.7E-05	
106-RU	<6.0E-03		<9.8E-06		<1.5E-01		<1.8E-02		<7.8E-04	
110M-AG	6.52E-03	1.50E-03	<2.5E-06		<3.0E-02		<3.1E-03		<1.5E-04	
125-SB	<3.9E-03		<6.4E-06		<1.1E-01		<2.1E-02		<5.3E-04	
129-I	<1.9E-04		<5.3E-07		<1.9E-05		<1.8E-06		<9.1E-06	
134-CS	<5.4E-03		<9.4E-07		1.19E+00	5.96E-02	1.09E-01	5.45E-03	7.05E-04	3.52E-05
135-CS										
137-CS	1.02E-02	1.93E-03	<1.1E-06		2.01E+00	1.01E-01	1.38E+00	6.92E-02	3.08E-03	2.46E-04
141-CE	<1.9E-04		2.40E-05	1.03E-05	2.85E-02	1.43E-03	3.71E-02	1.86E-03	2.30E-03	1.61E-04
144-CE	<2.7E-04		<3.4E-06		2.43E-02	1.22E-03	9.00E-04	1.80E-04	<3.1E-05	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	1.10E-06	2.19E-07	7.36E-08	1.25E-08	1.44E-03	7.21E-05	8.83E-05	4.42E-06	2.48E-06	5.22E-07
239-PU	7.22E-07	1.81E-07	8.44E-08	1.35E-08	7.40E-04	3.70E-05	4.43E-05	2.22E-06	6.34E-07	2.60E-07
241-PU	4.32E-04	1.12E-04	5.36E-06	2.47E-06	7.98E-02	5.59E-03	4.12E-03	3.71E-04	1.59E-04	3.02E-05
241-AM	<1.8E-06		1.10E-08	5.50E-09	1.03E-03	5.15E-05	1.13E-04	5.63E-06	6.39E-07	2.75E-07
242-CM	<3.8E-06		<3.1E-09		1.47E-03	7.35E-05	5.63E-05	2.81E-06	<3.3E-07	
244-CM	<1.5E-06		<2.1E-09		8.80E-04	4.40E-05	9.20E-05	4.60E-06	<4.2E-07	



# RADIOACTIVE WASTE SAMPLE LISTING

## S A I D A T A B A S E

PLANT NAME:	PILGRIM	PILGRIM	PILGRIM	PILGRIM	PILGRIM
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	SEACDAST	SEACDAST	SEACDAST	SEACDAST	SEACDAST
START-UP DATE:	1-DEC-72	1-DEC-72	1-DEC-72	1-DEC-72	1-DEC-72
SAMPLE TYPE:	RESIN	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	DRY ACTIVE WASTE
SAMPLE SUB-TYPE:	RADWASTE	RADWASTE	RADWASTE	RADWASTE	PRIMARY
SAMPLING DATE:	01-NOV-83	01-NOV-83	01-NOV-83	01-NOV-83	01-NOV-83
SAMPLE NUMBER:	10495	10496	10497	10498	10499

Concentrations in microcuries/gram

A-171

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<2.0E-04		<2.8E-04		<4.2E-04		<5.3E-04			
14-C	1.31E-03	6.53E-05	4.84E-05	1.16E-05	<4.0E-05		<2.8E-05		1.19E-04	7.73E-05
54-MN	4.54E-02	2.27E-03	5.35E-02	2.67E-03	3.63E-02	1.81E-03	4.39E-02	2.19E-03	1.23E-02	6.17E-04
55-FE	5.61E-03	3.93E-04	1.58E-01	1.27E-02	3.57E-01	2.86E-02	3.28E-01	2.30E-02	2.43E-01	2.43E-02
58-CO	3.16E-02	1.58E-03	4.92E-02	2.46E-03	2.94E-02	1.47E-03	3.32E-02	1.66E-03	2.89E-03	5.77E-04
60-CO	4.60E-01	2.30E-02	4.62E-01	3.69E-02	4.30E-01	2.15E-02	4.80E-01	2.40E-02	2.41E-01	1.20E-02
59-NI	<4.3E-04		<2.3E-04		<2.3E-04		<9.6E-04		<2.5E-03	
63-NI	2.20E-02	1.10E-03	9.77E-03	4.88E-04	1.88E-02	9.40E-04	1.94E-02	9.72E-04	3.35E-03	5.02E-04
90-SR	3.86E-03	1.93E-04	1.02E-03	5.08E-05	1.58E-03	7.88E-05	2.09E-03	1.05E-04	1.27E-03	7.60E-05
95-ZR			7.52E-06	3.76E-07						
94-NB	<5.0E-05		<5.5E-05		<8.7E-05		<5.6E-05			
99-TC	<3.8E-05		<1.0E-05		<3.8E-05		<6.2E-06		<5.3E-05	
106-RU	<3.5E-03		<1.3E-03		<3.4E-03		<2.7E-03		<1.2E-03	
110M-AG	<7.6E-04		<3.4E-04		<7.2E-04		<5.8E-04		<2.7E-04	
125-SB	<2.5E-03				<2.5E-03		<2.0E-03		<1.0E-03	
129-I	<5.3E-06		<2.6E-06		<6.9E-06		<9.2E-06		<3.7E-05	
134-CS	1.11E-02	5.53E-04	6.50E-03	3.15E-04	7.96E-03	4.78E-04	9.27E-03	4.63E-04	5.69E-03	3.41E-04
135-CS										
137-CS	4.77E-02	2.39E-03	6.29E-02	3.15E-03	8.47E-02	4.35E-03	9.53E-02	4.76E-03	8.23E-02	4.11E-03
141-CE	5.87E-03	2.93E-04	2.00E-03	1.00E-04	9.59E-03	1.19E-03	9.56E-04	1.43E-04	<9.8E-05	
144-CE	<3.2E-05		1.94E-04	6.98E-05	2.76E-03	9.66E-04	2.31E-04	1.34E-04	<9.1E-05	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	4.16E-06	3.33E-07	1.67E-05	8.35E-07	5.06E-05	4.05E-06	4.22E-05	2.11E-06	2.47E-05	1.97E-06
239-PU	2.77E-06	3.77E-07	2.35E-05	1.17E-06	6.24E-05	4.37E-06	5.64E-05	2.82E-06	3.36E-05	2.35E-06
241-PU	2.97E-04	4.46E-05	2.18E-03	2.39E-04	4.26E-03	4.69E-04	4.21E-03	3.79E-04	3.80E-03	6.83E-04
241-AM	5.21E-06	2.60E-07	1.88E-05	9.38E-07	5.86E-05	2.93E-06	4.99E-05	2.50E-06	3.45E-05	1.73E-06
242-CM	1.09E-06	1.42E-07	4.56E-06	3.65E-07	4.36E-06	7.85E-07	3.95E-06	5.53E-07	2.48E-06	5.95E-07
244-CM	2.60E-06	1.82E-07	3.98E-06	2.78E-07	8.24E-06	9.07E-07	8.92E-06	7.14E-07	5.75E-06	7.47E-07

# RADIOACTIVE WASTE SAMPLE LISTING

## WAT DATABASE

PLANT NAME:	PILGRIM	1	1
UNIT NUMBER:	1	1	1
PLANT TYPE:	BWR	BWR	BWR
PLANT LOCATION:	SEACAST	INLAND	INLAND
START-UP DATE:	1-DEC-72	1-JUN-83	1-JUN-83
SAMPLE TYPE:	DRY ACTIVE WASTE	REACTOR COOLANT	FILTER SLUDGE
SAMPLE SUB-TYPE:	PRIMARY	TOTAL	PRIMARY
SAMPLING DATE:	01-NOV-83	25-OCT-83	26-OCT-83
SAMPLE NUMBER:	10500	10482	10485

Concentrations in microcuries/gram

A-172

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H			9.55E-04	4.78E-05	<2.6E-04		6.20E-04	3.72E-05	2.27E-04	4.77E-05
14-C	<1.2E-04		1.39E-04	6.93E-06	5.87E-04	2.94E-05	4.27E-05	4.70E-06	<2.7E-05	
54-MN	8.91E-03	4.46E-04	4.53E-04	2.08E-05	3.54E-02	1.77E-03	2.49E-02	1.25E-03	3.70E-04	1.85E-05
55-FE	4.80E-02	3.36E-03	1.90E-04	1.33E-05	4.12E-03	5.35E-04	4.62E-02	4.62E-03	<6.9E-06	
58-CO	4.02E-03	2.01E-04	5.49E-04	2.43E-05	2.73E-02	1.37E-03	3.07E-02	1.54E-03	3.08E-04	1.54E-05
60-CO	2.87E-02	1.43E-03	1.94E-04	8.34E-06	8.50E-03	4.25E-04	1.16E-02	5.82E-04	1.23E-04	6.13E-06
59-NI	<2.1E-03		<1.2E-05		<4.0E-04		<6.5E-05		<7.1E-06	
63-NI	1.70E-03	3.91E-04	2.65E-07	4.24E-08	1.69E-03	8.44E-05	6.98E-04	4.89E-05	4.02E-05	4.42E-06
90-SR	<5.6E-05		3.30E-08	4.95E-09	<7.6E-06		5.25E-06	3.26E-06	9.23E-07	3.69E-07
95-ZR			3.46E-05	1.86E-06			5.07E-04	2.23E-04		
94-NB			<5.7E-07		<1.5E-05		<1.3E-05		<8.4E-06	
99-TC	<4.0E-05		<1.1E-07		<4.1E-06		<1.9E-05		<9.3E-07	
106-RU	<3.8E-04		<1.2E-05		<3.8E-04		<4.1E-04		<1.1E-05	
110M-AG	<5.2E-04		3.41E-05	6.48E-06	<3.0E-05		1.56E-03	7.81E-05	<9.2E-07	
125-SB	<2.4E-04		<8.6E-06		<2.2E-04		<2.6E-04		<6.3E-06	
129-I	<3.6E-05		<6.4E-08		3.54E-05	6.02E-06	<2.9E-06		<3.6E-07	
134-CS	<4.4E-05		<1.4E-06		<3.9E-05		<4.4E-05		<1.1E-06	
135-CS										
137-CS	2.58E-03	1.55E-04	<1.3E-06		<3.3E-05		<4.2E-05		<1.0E-06	
141-CE	<1.3E-06		<2.6E-06		<2.5E-06		<1.5E-05		<8.3E-07	
144-CE	<1.3E-06		<6.8E-06		<2.4E-05		<1.2E-05		<2.5E-06	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	3.01E-06	7.83E-07	2.47E-08	8.54E-09	1.46E-06	3.35E-07	3.03E-07	8.79E-08	9.65E-08	4.05E-08
239-PU	4.84E-07	3.19E-07	1.51E-08	6.46E-09	8.23E-07	2.47E-07	1.16E-06	1.74E-07	9.65E-08	4.05E-08
241-PU	6.22E-04	1.74E-04	3.61E-06	1.35E-06	1.94E-04	4.65E-05	6.40E-05	1.73E-05	3.59E-06	2.37E-06
241-AM	2.28E-06	6.62E-07	1.77E-08	8.48E-09	4.15E-07	2.61E-07	<7.7E-08		<8.3E-08	
242-CM	1.36E-06	5.96E-07	<4.2E-09		3.52E-06	8.79E-07	<3.8E-08		<6.6E-08	
244-CM	6.45E-07	3.55E-07	<5.0E-09		8.71E-07	3.75E-07	<3.6E-08		8.33E-08	5.00E-08

# RADIOACTIVE WASTE SAMPLE LISTING

## S A I D A T A B A S E

PLANT NAME:	1	PEACH BOTTOM	PEACH BOTTOM
UNIT NUMBER:	1	3	2
PLANT TYPE:	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND
START-UP DATE:	1-JUN-83	1-DEC-74	1-JUL-74
SAMPLE TYPE:	FILTER SLUDGE	DRY ACTIVE WASTE	FILTER SLUDGE
SAMPLE SUB-TYPE:	PRIMARY	SMEAR	PRIMARY
SAMPLING DATE:	26-OCT-83	28-OCT-83	30-SEP-83
SAMPLE NUMBER:	10487	10488	10509

Concentrations in microcuries/gram

A-173

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	3.95E-04	2.37E-05	<9.8E-04							
14-C	6.61E-06	3.44E-06	<2.0E-04							
54-MN	2.50E-02	1.25E-03	1.69E+00	8.45E-02	2.75E-03	1.24E-03	6.43E-01	1.54E-01	9.26E-01	1.76E-01
55-FE	4.06E-02	5.28E-03	5.18E+00	6.74E-01	1.36E-02	2.85E-03	2.28E+00	1.60E-01	1.79E+00	2.86E-01
58-CO	3.28E-02	1.64E-03	1.21E+00	6.07E-02	4.48E-03	1.61E-03	1.68E+00	2.18E-01	5.82E+00	4.65E-01
60-CD	1.24E-02	6.22E-04	1.14E+00	5.70E-02	1.90E-01	9.49E-03	2.19E+01	1.10E+00	3.02E+01	1.51E+00
59-NI	<1.5E-04		<3.0E-03							
63-NI	5.14E-04	3.08E-05	1.33E-01	6.64E-03	2.25E-02	1.13E-03	1.88E-01	9.38E-03	3.07E-01	1.53E-02
90-SR	4.58E-06	1.97E-06	1.37E-04	3.69E-05	8.92E-05	1.07E-05	1.06E-02	5.32E-04	8.08E-03	4.04E-04
95-ZR	4.90E-04	2.40E-04	2.06E-02	7.01E-03						
94-NB	<6.0E-06		<7.8E-05							
99-TC	<1.1E-06		<4.6E-04							
106-RU	<4.2E-04		<2.1E-02		<2.9E-03		<4.1E-01		<5.3E-01	
110M-AG	1.61E-03	2.58E-04	<2.7E-03		2.80E-03	6.45E-04	5.90E-01	1.36E-01	6.81E-01	9.53E-02
125-SB			<1.2E-02		<2.6E-03		<3.3E-01		<4.2E-01	
129-I	<5.8E-07		<3.7E-05							
134-CS	<4.7E-05		<2.3E-03		1.35E-01	6.73E-03	1.06E+01	5.31E-01	2.92E+01	1.46E+00
135-CS										
137-CS	<4.5E-05		<2.0E-03		2.61E-01	1.31E-02	1.06E+01	5.31E-01	2.81E+01	1.41E+00
141-CE	4.92E-04	1.33E-04	<3.1E-04		<4.0E-05		1.30E-03	8.06E-04	1.70E-02	2.04E-03
144-CE	<2.6E-05		<3.6E-04		<2.7E-05		1.80E-02	4.32E-03	2.60E-03	3.90E-04
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	4.37E-07	2.23E-07	1.43E-05	2.29E-06	1.15E-06	3.79E-07	2.33E-05	3.72E-06	2.58E-05	2.06E-06
239-PU	4.08E-07	2.16E-07	6.96E-06	1.60E-06	1.18E-06	3.89E-07	1.57E-05	2.98E-06	1.75E-05	1.75E-06
241-PU	6.69E-04	2.61E-04	5.70E-04	1.31E-04	1.81E-04	4.53E-05	3.01E-03	5.72E-04	2.81E-03	1.41E-04
241-AM	5.92E-08	2.96E-08	1.51E-05	2.86E-06	6.69E-07	1.67E-07	1.07E-05	1.82E-06	8.03E-06	8.03E-07
242-CM	<1.5E-08		5.69E-06	2.11E-06	5.38E-07	1.83E-07	4.60E-05	4.60E-06	8.59E-05	4.30E-06
244-CM	3.70E-08	2.33E-08	1.08E-05	2.47E-06	2.05E-07	9.23E-08	8.05E-06	1.53E-06	8.92E-06	8.02E-07

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	PEACH BOTTOM	PEACH BOTTOM	PEACH BOTTOM	DRESDEN	DRESDEN
UNIT NUMBER:	2	3	2	1	1
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-JUL-74	1-DEC-74	1-JUL-74	1-AUG-60	1-AUG-60
SAMPLE TYPE:	FILTER SLUDGE	RESIN	DRY ACTIVE WASTE	RESIN	EVAPORATOR BOTTOMS
SAMPLE SUB-TYPE:	PRIMARY	SECONDARY	SMEAR	PRIMARY	RADWASTE
SAMPLING DATE:	14-JUL-83	30-MAY-83	27-OCT-83	15-SEP-83	11-SEP-83
SAMPLE NUMBER:	10510	10511	10519	10536	10537

Concentrations in microcuries/gram

A-174

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H							5.23E-04	8.36E-05	7.04E-04	3.52E-05
14-C							1.41E-03	7.05E-05	4.53E-04	2.27E-05
54-MN	1.74E+00	5.73E-01	1.57E-02	3.45E-03	<2.1E-05		2.84E-02	2.28E-03	2.66E-02	1.86E-03
55-FE	2.37E+00	3.31E-01	3.40E-02	2.38E-03			1.96E-01	1.38E-02	1.18E+00	5.91E-02
58-CO	1.07E+01	1.49E+00	1.66E-01	1.33E-02	<2.6E-05		<1.3E-03		<1.1E-03	
60-CO	7.63E+01	3.82E+00	4.95E-01	2.48E-02	<1.2E-05		5.75E-01	2.90E-02	6.20E-01	3.10E-02
59-NI							2.64E-03	1.32E-03	<2.8E-04	
63-NI	4.37E-01	2.18E-02	1.45E-02	7.25E-04			1.14E-02	5.71E-04	<4.1E-02	
90-SR	2.13E-02	1.06E-03	1.77E-04	1.06E-05			1.48E-03	7.38E-05	7.56E-03	3.78E-04
95-ZR	5.65E+00	2.60E+00								
94-NB							<2.5E-04		<2.0E-05	
99-TC							<1.4E-04		<2.8E-05	
106-RU	<1.5E+00		<8.9E-03		<1.5E-04		<5.3E-03		<4.8E-03	
110M-AG	3.50E+00	3.15E-01			<3.0E-05		5.16E-03	1.55E-03	<1.0E-03	
125-SB	<1.1E+00		<7.0E-03		<1.6E-04		2.22E-02	2.66E-03	<3.6E-03	
129-I							<9.4E-06		<3.0E-06	
134-CS	2.59E+01	1.29E+00	6.82E-01	3.41E-02	1.66E-03	8.28E-05	6.65E-03	3.32E-04	1.48E-02	7.38E-04
135-CS										
137-CS	2.51E+01	1.26E+00	6.58E-01	3.29E-02	7.72E-03	3.86E-04	1.98E-02	1.78E-03	1.32E-01	6.62E-03
141-CE	4.30E-02	2.36E-02	<4.3E-04		<3.3E-05		<2.5E-04		4.71E-03	2.36E-04
144-CE	<7.7E-04		<2.2E-05		<7.3E-05		3.10E-03	8.68E-04	3.95E-03	1.98E-04
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	4.69E-05	8.92E-06	1.74E-06	4.36E-07			9.51E-05	4.76E-06	3.78E-04	1.89E-05
239-PU	2.50E-05	6.51E-06	1.18E-06	3.54E-07			3.49E-05	2.09E-06	1.83E-04	9.16E-06
241-PU	6.00E-03	1.50E-03	1.43E-04	3.87E-05			7.96E-03	8.76E-04	2.10E-02	1.47E-03
241-AM	1.47E-05	4.55E-06	4.97E-07	1.89E-07			2.82E-05	1.69E-06	1.86E-04	9.32E-06
242-CM	9.31E-05	1.68E-05	1.34E-06	5.08E-07			6.85E-05	3.43E-06	6.18E-05	3.09E-06
244-CM	1.36E-05	4.35E-06	2.02E-07	1.21E-07			6.58E-05	3.29E-06	2.28E-04	1.14E-05

# RADIOACTIVE WASTE SAMPLE LISTING

SAI DATABASE

PLANT NAME:	DRESDEN	DRESDEN	QUAD CITIES	QUAD CITIES	MCGUIRE
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-AUG-60	1-AUG-60	1-AUG-72	1-AUG-72	1-DEC-81
SAMPLE TYPE:	FILTER SLUDGE	DRY ACTIVE WASTE	REACTOR COOLANT	FILTER SLUDGE	DRY ACTIVE WASTE
SAMPLE SUB-TYPE:	PRIMARY	SMEAR	TOTAL	PRIMARY	SMEAR
SAMPLING DATE:	20-AUG-83	16-NOV-83	13-OCT-83	07-DEC-83	30-MAR-83
SAMPLE NUMBER:	10538	10539	10579	10582	10258

Concentrations in microcuries/gram

A-175

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	1.07E-03	5.34E-05			2.00E-03	1.00E-04	7.47E-03	3.73E-04	<1.4E-03	
14-C	1.89E-04	9.44E-06	<4.5E-04		1.10E-07	4.18E-08	6.62E-06	1.32E-06	3.65E-02	1.83E-03
54-MN	2.35E-03	1.18E-04	1.52E-02	1.06E-03	3.25E-05	1.51E-06	1.73E+00	1.38E-01	5.40E-01	2.70E-02
55-FE	3.20E-02	6.72E-03	6.54E-01	4.58E-02	<3.9E-06		2.31E+00	1.39E-01		
58-CO	<5.6E-05		<2.6E-03		1.25E-04	6.12E-06	6.21E-01	1.61E-01	4.28E+00	2.14E-01
60-CO	2.43E-02	1.22E-03	1.81E-01	9.03E-03	3.00E-04	1.44E-05	3.21E+01	1.60E+00	1.95E+00	9.77E-02
59-NI	<2.1E-04		<8.1E-07		<8.1E-07		3.24E-03	4.21E-04	5.71E-03	1.77E-03
63-NI	6.98E-04	3.49E-05	2.40E-02	1.92E-03	1.92E-06	2.11E-07	1.47E-01	7.36E-03	2.50E-01	1.25E-02
90-SR	3.59E-05	3.95E-06	3.30E-04	1.58E-04	3.39E-06	1.69E-07	2.38E-01	1.19E-02	6.16E-05	3.02E-05
95-ZR					2.89E-06	1.45E-07			3.19E-01	1.92E-02
94-NB	<8.8E-06						<6.5E-05		<1.9E-04	
99-TC	<9.9E-07		<1.2E-04		<8.1E-07		<3.8E-05		<4.5E-04	
106-RU	<1.9E-04		<2.3E-03		<2.8E-06		<3.4E-01		<1.4E-02	
110M-AG	<4.4E-05		<5.0E-04		4.76E-06	7.42E-07	4.21E-01	9.27E-02	2.60E-02	5.21E-03
125-SB	2.91E-04	1.37E-04	<1.5E-03		<1.9E-06		<2.5E-01		1.98E-02	7.72E-03
129-I	6.27E-07	3.32E-07	<1.7E-04		<4.8E-08		<6.7E-05		<6.3E-05	
134-CS	1.07E-04	5.33E-06	<2.3E-03		<6.0E-06		6.83E-01	3.41E-02	<1.2E-03	
135-CS										
137-CS	7.39E-04	5.17E-05	3.99E-03	7.98E-04	2.36E-06	9.67E-07	3.25E+00	1.63E-01	<1.1E-03	
141-CE	3.60E-04	1.73E-04	<1.5E-04		1.50E-05	5.71E-06	1.14E-02	5.70E-04	<1.8E-02	
144-CE	<5.4E-05		<1.1E-03		1.43E-06	1.00E-07	1.90E-02	9.50E-04	<3.9E-03	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	4.42E-06	2.21E-07	9.78E-05	6.85E-06	1.02E-09	1.02E-10	9.97E-04	4.99E-05	<6.4E-06	
239-PU	1.95E-06	1.17E-07	5.07E-05	5.07E-06	1.16E-09	1.04E-10	4.06E-04	2.03E-05	<4.0E-06	
241-PU	2.92E-04	1.75E-05	4.08E-03	8.16E-04	1.87E-07	3.55E-08	4.63E-02	2.31E-03	5.90E-04	1.77E-04
241-AM	2.43E-06	1.21E-07	2.95E-05	6.48E-06	3.93E-10	7.46E-11	2.59E-04	1.30E-05	4.24E-06	5.94E-07
242-CM	2.82E-06	1.69E-07	6.40E-05	1.15E-05	4.76E-09	3.33E-10	2.17E-04	1.08E-05	8.58E-07	4.03E-07
244-CM	4.17E-06	2.08E-07	6.58E-05	9.87E-06	4.99E-10	7.98E-11	7.30E-04	3.65E-05	<1.0E-07	

# RADIOACTIVE WASTE SAMPLE LISTING

S A I   D A T A B A S E

PLANT NAME:	MCGUIRE	OCONEE	OCONEE	OCONEE	OCONEE
UNIT NUMBER:	1	1	2	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-DEC-81	1-JUL-73	1-SEP-74	1-JUL-73	1-JUL-73
SAMPLE TYPE:	RESIN	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	EVAPORATOR BOTTOMS
SAMPLE SUB-TYPE:	PRIMARY	LIQUID	LIQUID	LIQUID	LIQUID
SAMPLING DATE:	12-SEP-83	23-AUG-83	23-AUG-83	23-AUG-83	25-AUG-83
SAMPLE NUMBER:	10284	10275	10276	10277	10278

Concentrations in microcuries/gram

A-176

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	3.69E-03	1.85E-04	8.88E-02	4.44E-03	1.91E-02	9.55E-04	2.25E-01	1.13E-02	5.93E-02	2.96E-03
14-C	1.44E-03	7.21E-05	6.89E-04	3.45E-05	1.09E-04	5.47E-06	5.96E-05	4.77E-06	2.02E-03	1.01E-04
54-MN	3.98E-02	1.99E-03	5.98E-04	4.78E-05	2.92E-04	3.22E-05	9.52E-05	7.61E-06	3.60E-03	1.80E-04
55-FE										
58-CO	1.91E-01	9.56E-03	1.08E-02	5.40E-04	1.32E-02	6.58E-04	4.39E-03	2.20E-04	1.07E-01	5.34E-03
60-CO	2.34E-01	1.17E-02	5.22E-04	4.17E-05	2.57E-04	2.83E-05	1.58E-04	5.54E-05	6.78E-03	6.11E-04
59-NI	2.68E-03	2.41E-04								
63-NI	1.79E-01	8.96E-03	1.11E-04	9.95E-06	1.56E-04	9.34E-06	4.45E-05	8.46E-06	6.90E-03	3.45E-04
90-SR	1.72E-04	1.03E-04	2.32E-05	1.16E-06	<4.3E-07		1.30E-06	3.12E-07	1.84E-05	9.18E-07
95-ZR					2.90E-04	6.95E-05	1.11E-04	2.67E-05	6.39E-04	3.77E-04
94-NB	<1.3E-05									
99-TC	2.40E-06	1.34E-06	<6.4E-06		<3.6E-06		<1.7E-06		9.20E-06	4.60E-06
106-RU	<3.8E-03		<3.1E-04		<2.5E-04		<5.7E-05		<7.2E-04	
110M-AG	<5.8E-04				<1.5E-05		1.61E-04	8.05E-06	1.10E-02	5.51E-04
125-SB	<2.8E-03		<3.5E-04		<2.6E-04		<5.8E-05		<6.9E-04	
129-I	2.54E-05	8.89E-06	<6.2E-07		<5.6E-06		<6.5E-07		<3.1E-06	
134-CS	1.65E-03	1.12E-03	3.15E-02	1.58E-03	1.70E-02	8.52E-04	3.20E-03	1.60E-04	1.92E-02	9.60E-04
135-CS										
137-CS	<4.1E-04		5.01E-02	2.50E-03	2.30E-02	1.15E-03	6.28E-03	3.14E-04	2.96E-02	1.48E-03
141-CE	<2.3E-04		<2.2E-06		<1.1E-05		<6.2E-06		<8.5E-05	
144-CE	<5.7E-05		1.49E-05	8.49E-06	<2.2E-05		<1.1E-05		4.73E-04	5.68E-05
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	1.05E-06	1.05E-07	7.64E-08	1.91E-08	9.94E-08	1.39E-08	7.08E-08	1.27E-08	1.26E-06	1.51E-07
239-PU	6.10E-07	7.93E-08	3.00E-08	1.23E-08	4.54E-08	9.53E-09	6.15E-08	1.17E-08	9.32E-07	1.21E-07
241-PU	1.99E-04	3.77E-05	1.43E-05	1.29E-06	1.04E-05	1.77E-06	1.01E-05	1.51E-06	1.32E-04	1.45E-05
241-AM	1.06E-07	3.39E-08	1.42E-08	4.97E-09	3.62E-08	6.15E-09	3.50E-08	8.75E-09	1.40E-07	2.66E-08
242-CM	<6.9E-08		4.88E-08	1.07E-08	5.49E-08	8.78E-09	3.30E-08	9.57E-09	3.52E-06	1.76E-07
244-CM	5.83E-08	2.51E-08	1.82E-07	1.82E-08	1.72E-06	4.30E-07	1.80E-07	1.98E-08	1.41E-06	9.87E-08

# RADIOACTIVE WASTE SAMPLE LISTING

SAI DATABASE

PLANT NAME:	OCONEE	OCONEE	OCONEE	OCONEE	OCONEE
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-JUL-73	1-JUL-73	1-JUL-73	1-JUL-73	1-JUL-73
SAMPLE TYPE:	FILTER SLUDGE	DRY ACTIVE WASTE	FILTER CARTRIDGE	FILTER CARTRIDGE	DRY ACTIVE WASTE
SAMPLE SUB-TYPE:	SECONDARY	MOP HEADS	FUEL POOL	PRIMARY	SMEAR
SAMPLING DATE:	25-AUG-83	29-AUG-83	12-SEP-83	12-SEP-83	12-SEP-83
SAMPLE NUMBER:	10279	10280	10281	10282	10283

Concentrations in microcuries/gram

A-177

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<1.1E-04		<3.1E-06		1.47E-02	7.33E-04	8.77E-03	4.38E-04	<2.1E-03	
14-C	<2.4E-05		<2.6E-05		3.17E-01	1.58E-02	4.36E-02	2.18E-03	1.04E-02	9.18E-04
54-MN	9.27E-06	1.21E-06	2.18E-05	1.96E-06	5.79E+00	2.90E-01	1.12E+00	1.01E-01	1.72E-03	1.03E-04
55-FE										
58-CO	<3.7E-07		4.85E-05	2.91E-06	7.77E-01	1.55E-01	1.91E+00	9.54E-02	2.93E-02	1.46E-03
60-CO	9.24E-06	1.20E-06	1.99E-05	5.58E-06	4.38E+01	2.19E+00	3.21E+01	1.61E+00	4.37E-03	2.18E-04
59-NI										
63-NI	2.84E-05	9.09E-06	1.01E-03	5.04E-05	1.05E+02	5.22E+00	6.81E+01	3.41E+00	1.38E-02	6.88E-04
90-SR	1.22E-06	6.48E-07	8.07E-04	4.03E-05	<1.1E-04		4.61E-02	2.31E-03	1.63E-03	9.78E-05
95-ZR									3.74E-04	1.42E-04
94-NB										
99-TC	<7.4E-07		<1.3E-05		<2.8E-03		<8.8E-04		<6.3E-05	
106-RU	<6.4E-06		<1.1E-05		<5.4E-01		<2.7E-01		<3.8E-04	
110M-AG	<4.2E-07		<6.2E-07		1.66E+01	8.29E-01	2.62E+00	1.31E-01	2.80E-03	1.68E-04
125-SB	<8.4E-06		<1.4E-05		1.35E+00	2.43E-01	7.34E-01	3.67E-02	<3.1E-04	
129-I	<4.0E-06		<2.1E-06		<7.6E-05		<3.2E-05		<9.8E-05	
134-CS	4.02E-04	2.01E-05	1.09E-03	5.47E-05	6.41E-01	8.34E-02	1.73E-01	4.68E-02	4.31E-03	2.15E-04
135-CS										
137-CS	8.69E-04	4.34E-05	2.20E-03	1.10E-04	<1.2E-01		<4.2E-02		6.35E-03	3.18E-04
141-CE	<1.4E-06		<1.8E-06		<1.2E-02		<5.4E-04		<2.9E-05	
144-CE	<4.6E-06		<6.0E-06		4.00E-01	5.60E-02	2.06E-01	1.44E-02	<1.1E-04	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	1.67E-07	4.18E-08	7.64E-07	1.83E-07	2.00E-02	9.98E-04	6.77E-03	3.38E-04	7.60E-05	9.88E-06
239-PU	3.01E-07	5.72E-08	5.67E-07	1.59E-07	1.18E-02	5.90E-04	5.82E-03	2.91E-04	2.05E-05	4.72E-06
241-PU	2.59E-05	6.48E-06	8.02E-05	1.36E-05	1.62E+00	1.62E-01	5.55E-01	2.78E-02	4.40E-03	3.52E-04
241-AM	1.74E-07	2.96E-08	1.09E-07	4.36E-08	6.15E-03	8.61E-04	9.53E-04	4.76E-05	2.60E-05	6.50E-06
242-CM	<5.2E-09		<3.9E-08		4.12E-03	6.59E-04	8.39E-04	4.19E-05	<4.8E-06	
244-CM	3.90E-06	9.75E-07	1.09E-06	1.31E-07	4.88E-03	7.32E-04	1.36E-03	6.80E-05	5.30E-04	2.65E-04

# RADIOACTIVE WASTE SAMPLE LISTING

S A I   D A T A B A S E

PLANT NAME:	TROJAN	YANKEE ROWE	YANKEE ROWE	YANKEE ROWE	YANKEE ROWE
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWK	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-MAY-76	1-JUN-61	1-JUN-61	1-JUN-61	1-JUN-61
SAMPLE TYPE:	RESIN	FILTER CARTRIDGE	RESIN	REACTOR COOLANT	EVAPORATOR BOTTOMS
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	SOLID	LIQUID
SAMPLING DATE:	12-SEP-83	26-SEP-83	07-SEP-83	01-MAY-83	05-JUL-83
SAMPLE NUMBER:	10290	10304	10305	10303	10306

Concentrations in microcuries/gram

A-178

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	5.38E-02	2.69E-03	<1.5E-03		4.15E-02	2.08E-03	<1.2E-07		8.39E-02	4.20E-03
14-C	1.65E-03	8.27E-05	5.47E+00	2.74E-01	3.67E-03	1.84E-04	1.42E-05	7.10E-07	1.89E-04	9.43E-06
54-MN	6.01E-03	6.01E-04	1.26E+02	6.30E+00	7.32E-03	1.17E-03	5.61E-04	2.81E-05	8.48E-03	4.24E-04
55-FE	6.45E-02	1.29E-02	5.82E+03	2.91E+02	4.70E-02	7.05E-03	1.98E-02	1.19E-03	6.51E-02	6.51E-03
58-CO	4.79E-02	2.40E-03	2.91E+01	1.75E+00	<5.5E-04		1.50E-03	7.50E-05	1.76E-03	8.81E-05
60-CO	2.23E-01	1.11E-02	4.51E+02	2.26E+01	2.84E-03	7.94E-04	1.05E-03	5.25E-05	7.91E-03	3.95E-04
59-NI			2.97E+00	1.48E-01	<4.3E-04		3.69E-06	8.49E-07	5.04E-05	9.58E-06
63-NI	6.41E-02	3.20E-03	2.15E+02	1.08E+01	1.76E-03	8.80E-05	2.48E-04	1.24E-05	4.40E-03	2.20E-04
90-SR	2.82E-03	1.41E-04	3.92E+00	1.96E-01	2.47E-03	1.23E-04	2.23E-06	1.12E-07	2.51E-04	1.29E-05
95-ZR	<2.8E-03		1.05E+01	1.79E+00			3.50E-02	1.75E-03	1.23E-02	6.15E-04
94-NB			3.28E-02	1.64E-03	<2.4E-05		2.27E-07	1.82E-08	1.64E-06	1.02E-06
99-TC	<1.0E-05		6.01E-03	9.02E-04	<9.9E-06		4.37E-07	2.18E-08	<1.1E-06	
106-RU	<1.4E-03		<5.0E+00		<4.4E-03		<2.8E-05		<1.7E-04	
110M-AG	<2.8E-04		<8.8E-01		<4.6E-04		<4.2E-06		<2.3E-05	
125-SB	2.12E-03	1.21E-03	<3.4E+00				3.48E-05	1.77E-05		
129-I	<4.5E-05		<6.9E-04		<9.5E-05		4.47E-07	1.12E-07	<1.5E-07	
134-CS	1.94E-02	9.71E-04	<4.8E-01		9.11E-03	5.46E-04	<2.7E-06		5.29E-03	2.64E-04
135-CS										
137-CS	4.67E-02	2.33E-03	<5.6E-01		1.25E-02	1.37E-03	<2.1E-06		6.62E-03	3.31E-04
141-CE	<1.8E-04		7.68E-02	2.69E-02	1.37E-03	6.85E-05	2.91E-03	1.46E-04	9.86E-03	4.93E-04
144-CE	1.89E-02	9.44E-04	2.50E+01	1.25E+00	6.09E-03	3.04E-04	1.10E-03	5.50E-05	4.56E-03	2.28E-04
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	1.71E-05	1.03E-06	1.90E-02	9.52E-04	8.44E-07	3.04E-07	6.80E-08	3.40E-09	3.43E-07	3.77E-08
239-PU	1.34E-04	6.72E-06	6.92E-02	3.46E-03	1.29E-06	3.88E-07	9.59E-07	4.79E-08	2.94E-06	1.47E-07
241-PU	7.21E-03	3.61E-04	5.51E+00	2.76E-01	9.87E-05	2.86E-05	2.70E-05	2.43E-06	9.25E-05	8.32E-06
241-AM	6.83E-06	2.19E-06	1.34E-02	6.72E-04	4.66E-07	1.45E-07	2.92E-08	1.46E-09	3.40E-07	3.06E-08
242-CM	4.25E-06	1.91E-06	5.10E-02	2.55E-03	3.47E-07	1.46E-07	5.75E-08	2.87E-09	2.72E-06	1.36E-07
244-CM	5.38E-05	1.61E-05	6.80E-03	3.40E-04	1.87E-07	9.33E-08	1.56E-07	7.82E-09	1.55E-07	2.17E-08



# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	KEWUANE	KEWUANE	NORTH ANNA	MAINE YANKEE	TROJAN
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	SEACOAST	INLAND
START-UP DATE:	1-JUN-74	1-JUN-74	1-JUN-78	1-DEC-72	1-MAY-76
SAMPLE TYPE:	RESIN	RESIN	FILTER CARTRIDGE	RESIN	FUEL POOL
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	PRIMARY	SOLID
SAMPLING DATE:	29-SEP-83	29-SEP-83	24-OCT-83	29-SEP-83	12-OCT-83
SAMPLE NUMBER:	10301	10302	10406	10387	10329

Concentrations in microcuries/gram

A-179

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<3. 2E-05		<3. 5E-05		7. 83E-02	3. 92E-03	1. 12E-02	5. 58E-04	<4. 6E-08	
14-C	1. 38E-03	6. 89E-05	5. 22E-04	4. 17E-05	3. 79E-01	1. 89E-02	3. 89E-02	1. 95E-03	7. 47E-07	3. 36E-07
54-MN	<5. 1E-04		<7. 9E-04		5. 47E+01	2. 74E+00	2. 60E+00	1. 30E-01	1. 50E-05	7. 50E-07
55-FE	5. 79E-01	8. 69E-02	2. 85E-01	4. 28E-02	2. 70E+03	6. 75E+02			3. 52E-04	1. 02E-04
58-CD	<5. 8E-04		<7. 6E-04		1. 25E+01	1. 88E+00	6. 05E+00	3. 02E-01	2. 65E-05	1. 32E-06
60-CD	<8. 0E-04		3. 18E-01	1. 59E-02	5. 73E+02	2. 86E+01	1. 60E+01	7. 99E-01	2. 35E-04	1. 18E-05
59-NI	1. 28E-02	6. 40E-04	4. 98E-04	1. 79E-04	1. 14E+00	5. 71E-02	2. 50E-01	1. 25E-02		
63-NI	1. 05E+00	5. 25E-02	3. 95E-02	1. 97E-03	1. 38E+02	6. 92E+00	2. 63E+01	1. 31E+00	7. 41E-05	3. 71E-06
90-SR	5. 03E-04	3. 02E-05	4. 10E-05	4. 10E-06	2. 42E-01	1. 21E-02	1. 41E-01	7. 04E-03	3. 04E-06	1. 52E-07
95-ZR					1. 98E+00	1. 12E-02	<2. 5E-01		2. 38E-05	1. 19E-06
94-NB	<4. 6E-04		<1. 4E-05		3. 62E-02	1. 81E-03	<6. 1E-05			
99-TC	<7. 0E-06		<1. 1E-04		<4. 9E-04		<2. 9E-04		<4. 6E-08	
106-RU	<5. 1E-03		<6. 3E-03		<4. 8E+00		<1. 5E-01		<1. 5E-06	
110M-AG	<6. 8E-04		7. 14E-03	3. 57E-04	<9. 5E-01		<2. 5E-02		<3. 0E-07	
125-SB	<5. 1E-03		<5. 5E-03				3. 77E-01	1. 51E-01	5. 74E-06	5. 17E-07
129-I	<1. 5E-05		<9. 1E-05		<3. 0E-05		1. 98E-05	5. 94E-06	<3. 0E-07	
134-CS	<5. 0E-04		2. 20E-02	1. 10E-03	<4. 7E-01		1. 11E+00	5. 57E-02	2. 20E-06	5. 94E-07
135-CS										
137-CS	<5. 7E-04		1. 39E-01	6. 95E-03	<5. 6E-01		1. 17E+01	5. 86E-01	9. 56E-06	5. 74E-07
141-CE	<1. 3E-03		<4. 8E-04		<3. 7E-03		<2. 0E-04		6. 70E-07	4. 42E-07
144-CE	<4. 0E-03		<2. 0E-03		1. 10E+01	5. 50E-01	1. 74E-02	8. 70E-04	1. 39E-04	6. 95E-06
152-EU										
154-EU										
155-EU										
235-U										
238-U	<6. 0E-02									
238-PU	4. 96E-06	5. 46E-07	5. 03E-07	9. 06E-08	1. 36E-02	6. 79E-04	2. 39E-04	1. 20E-05	9. 25E-08	4. 62E-09
239-PU	1. 83E-06	3. 29E-07	2. 71E-07	6. 76E-08	3. 71E-02	1. 85E-03	3. 01E-04	1. 51E-05	6. 13E-07	3. 06E-08
241-PU	1. 32E-03	1. 72E-04	1. 52E-04	2. 88E-05	3. 31E+00	1. 65E-01	2. 98E-02	1. 49E-03	2. 83E-05	2. 83E-06
241-AM	8. 68E-07	2. 17E-07	7. 91E-07	7. 12E-08	3. 64E-03	1. 82E-04	1. 26E-04	7. 57E-06	1. 12E-07	4. 70E-08
242-CM	4. 16E-07	1. 66E-07	1. 14E-06	1. 02E-07	6. 46E-03	3. 23E-04	6. 49E-05	4. 54E-06	3. 45E-07	8. 97E-08
244-CM	3. 93E-07	1. 46E-07	1. 58E-07	3. 32E-08	9. 77E-04	4. 88E-05	5. 06E-05	3. 54E-06	7. 27E-08	3. 78E-08

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	1	1	1	1
UNIT NUMBER:	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-DEC-70	1-DEC-70	1-DEC-70	1-DEC-70
SAMPLE TYPE:	RESIN	RESIN	RESIN	EVAPORATOR BOTTOMS
SAMPLE SUB-TYPE:	RADWASTE	RADWASTE	RADWASTE	LIQUID
SAMPLING DATE:	09-OCT-83	30-APR-83	02-MAY-83	04-MAY-83
SAMPLE NUMBER:	10330	10335	10336	10337

Concentrations in microcuries/gram

A-180

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	6.37E-02	3.19E-03	2.25E-02	1.12E-03	8.09E-02	4.04E-03	2.88E-02	1.44E-03	1.39E-02	6.95E-04
14-C	4.64E-02	2.32E-03	3.28E-02	1.64E-03	4.08E-02	2.04E-03	2.20E-04	1.98E-05	3.50E-03	1.75E-04
54-MN	2.01E-01	1.01E-02	1.96E-02	4.11E-03	<4.8E-02		7.21E-04	1.59E-04	<5.4E-03	
55-FE										
58-CO	3.13E-01	1.57E-02	5.81E-01	2.90E-02	1.63E+00	4.56E-01	5.10E-02	2.55E-03	4.90E-01	2.94E-02
60-CO	1.77E+00	1.06E-01	8.31E-01	4.15E-02	3.34E+01	1.67E+00	3.80E-02	1.90E-03	2.32E-02	7.66E-03
59-NI										
63-NI	2.12E-01	1.06E-02	7.43E-02	3.71E-03	4.62E+00	2.31E-01	2.50E-02	1.25E-03	4.91E-02	2.45E-03
90-SR	8.71E-03	4.35E-04	9.44E-04	5.67E-05	9.77E-03	4.89E-04	2.67E-05	5.07E-06	3.02E-04	3.92E-05
95-ZR	5.71E-02	1.20E-02					3.09E-03	2.78E-04		
94-NB										
99-TC	<2.0E-03		<5.3E-04		<7.6E-04		<4.4E-05		<7.3E-04	
106-RU	<4.7E-02		<1.1E-02		<3.3E-01		<4.9E-04		<1.6E-01	
110M-AG	<5.3E-03		1.12E-02	3.01E-03	<7.9E-02		9.42E-04	6.60E-05		
125-SB	3.58E-01	2.50E-02	3.25E-02	3.90E-03	5.06E-01	2.83E-01	<7.0E-02		<2.0E-01	
129-I	<2.5E-04		<7.0E-05		<1.6E-04		4.19E-05	2.73E-05	<2.2E-04	
134-CS	6.34E+00	3.17E-01	3.90E-01	1.95E-02	8.78E-01	4.39E-02	4.34E-02	2.17E-03	2.63E+01	1.31E+00
135-CS										
137-CS	1.02E+01	5.12E-01	4.40E-01	2.20E-02	1.09E+00	8.74E-02	6.46E-02	3.23E-03	4.05E+01	2.03E+00
141-GE	1.42E-03	3.55E-04	<4.1E-03		<1.2E-01		<7.9E-03		<1.7E-03	
144-CE	3.60E-02	9.72E-03	3.18E-03	1.37E-03	<1.0E-02		<1.5E-03		<1.2E-03	
152-EU										
154-EU										
155-EU										
235-U										
238-U			<1.4E-01							
238-PU	1.37E-04	1.09E-05	7.65E-06	9.18E-07	6.67E-04	4.67E-05	2.04E-06	2.04E-07	1.98E-06	4.76E-07
239-PU	1.58E-04	1.11E-05	2.75E-05	1.65E-06	3.07E-04	2.46E-05	1.02E-06	1.43E-07	1.65E-06	4.46E-07
241-PU	1.90E-02	9.52E-04	4.03E-03	6.05E-04	2.82E-02	3.10E-03	5.54E-04	8.32E-05	1.45E-03	1.31E-04
241-AM	5.82E-05	3.49E-06	1.89E-05	2.27E-06	1.55E-04	1.24E-05	<7.4E-07		<5.2E-06	
242-CM	1.94E-04	9.71E-06	1.36E-04	9.49E-06	4.35E-04	3.05E-05	<3.7E-06		<2.9E-06	
244-CM	8.50E-04	4.25E-05	2.88E-05	2.88E-06	2.97E-04	1.78E-05	1.26E-06	7.56E-07	<1.9E-06	

# RADIOACTIVE WASTE SAMPLE LISTING

SAI DATABASE

PLANT NAME:	NORTH ANNA	NORTH ANNA	NORTH ANNA	NORTH ANNA	NORTH ANNA
UNIT NUMBER:	1	2	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-JUN-78	1-DEC-80	1-JUN-78	1-JUN-78	1-JUN-78
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	FILTER SLUDGE
SAMPLE SUB-TYPE:	RADWASTE	RADWASTE	RADWASTE	PRIMARY	PRIMARY
SAMPLING DATE:	18-OCT-83	18-OCT-83	18-OCT-83	18-OCT-83	18-OCT-83
SAMPLE NUMBER:	10349	10350	10351	10352	10353

Concentrations in microcuries/gram

A-181

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	3.64E-03	1.82E-04	8.15E-03	4.07E-04	3.92E-03	1.96E-04	5.14E-03	2.57E-04	2.93E-03	1.46E-04
14-C	1.40E-04	2.80E-05	9.40E-05	2.26E-05	1.90E-04	2.47E-05	1.06E-03	5.28E-05	7.47E-03	3.73E-04
54-MN	7.50E-04	3.15E-04	2.79E-02	1.95E-03	3.30E-04	2.28E-04	8.47E-02	5.08E-03	6.51E-02	3.26E-03
55-FE	8.71E-03	6.97E-04	5.15E-02	2.58E-03	1.29E-02	7.74E-04	1.38E+00	6.91E-02	7.38E+00	3.69E-01
58-CO	2.70E-03	4.05E-04	1.03E-02	8.24E-04	6.40E-04	2.62E-04	1.24E-01	6.22E-03	3.76E-01	1.88E-02
60-CO	1.15E-02	9.20E-04	5.77E-02	2.89E-03	4.32E-03	3.02E-04	1.57E+00	7.83E-02	7.35E-01	3.68E-02
59-NI	<8.2E-04		<5.8E-05		5.61E-04	2.64E-04	<1.0E-03		1.34E-03	6.03E-04
63-NI	2.18E-03	1.09E-04	2.54E-03	1.27E-04	<3.7E-02		4.21E-02	2.10E-03	1.16E-01	5.80E-03
90-SR	2.70E-05	1.03E-05	2.04E-04	1.84E-05	<2.1E-05		1.17E-04	1.29E-05	3.48E-04	2.09E-05
95-ZR									1.43E-02	5.28E-03
94-NB	<3.9E-05		<1.8E-05		<6.0E-05		<3.8E-05		<4.6E-05	
99-TC	<1.7E-04		<4.6E-05		<1.1E-05		<6.4E-05		<8.2E-05	
106-RU	<2.1E-03		<6.5E-03		<8.8E-04		<1.3E-02		<9.7E-03	
110M-AG	<1.6E-04		<4.5E-04		<8.7E-05		3.10E-02	3.10E-03	2.32E-02	2.32E-03
125-SB	<2.5E-03		<8.9E-03		7.25E-03	3.62E-04	6.73E-02	2.15E-02	2.28E-02	8.42E-03
129-I	<1.7E-05		<7.3E-06		<1.1E-05		<1.3E-05		<8.8E-06	
134-CS	9.12E-02	5.47E-03	4.55E-01	2.27E-02	1.01E-02	6.06E-04	3.96E-01	1.98E-02	<9.8E-04	
135-CS										
137-CS	1.76E-01	8.80E-03	1.15E+00	5.75E-02	1.94E-02	9.70E-04	8.99E-01	4.50E-02	<1.1E-03	
141-CE	<2.4E-04		<9.9E-06		<2.1E-05		<8.0E-04		6.64E-04	4.25E-04
144-CE	<8.7E-04		1.30E-04	1.69E-05	<1.9E-05		<3.5E-03		1.82E-02	7.11E-03
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	4.72E-07	9.90E-08	3.87E-07	1.31E-07	2.77E-07	1.38E-07	9.19E-06	4.59E-07	3.97E-05	1.99E-06
239-PU	3.78E-07	8.70E-08	3.75E-07	1.31E-07	4.15E-07	1.70E-07	1.12E-05	5.59E-07	5.92E-05	2.96E-06
241-PU	1.20E-04	3.72E-05	1.63E-04	3.26E-05	8.55E-05	2.74E-05	1.16E-03	5.78E-05	6.12E-03	3.06E-04
241-AM	1.37E-06	6.45E-07	1.52E-07	6.25E-08	2.43E-07	9.71E-08	<2.6E-06		1.00E-05	7.03E-07
242-CM	<1.5E-06		4.11E-07	1.23E-07	1.28E-07	8.47E-08	<1.0E-06		1.03E-04	5.14E-06
244-CM	6.86E-07	4.53E-07	<9.0E-08		1.11E-07	6.68E-08	<1.2E-06		8.35E-06	6.68E-07

RADIOACTIVE WASTE SAMPLE LISTING  
SAI DATABASE

PLANT NAME:	NORTH ANNA	NORTH ANNA	NORTH ANNA	NORTH ANNA	NORTH ANNA
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-JUN-78	1-JUN-78	1-JUN-78	1-JUN-78	1-JUN-79
SAMPLE TYPE:	DRY ACTIVE WASTE	DRY ACTIVE WASTE	DRY ACTIVE WASTE	DRY ACTIVE WASTE	DRY ACTIVE WASTE
SAMPLE SUB-TYPE:	SMEAR	PRIMARY	PRIMARY	PRIMARY	PRIMARY
SAMPLING DATE:	18-OCT-83	18-OCT-83	18-OCT-83	18-OCT-83	18-OCT-83
SAMPLE NUMBER:	10354	10355	10356	10357	10358

Concentrations in microcuries/gram

A-182

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<4. 2E-04		<4. 7E-04		<4. 9E-04		<2. 7E-04		<2. 9E-04	
14-C	5. 01E-03	5. 51E-04	<1. 4E-04		<1. 1E-04		<3. 1E-04		<2. 5E-04	
54-MN	1. 80E-04	7. 01E-05	9. 90E-05	3. 86E-05	8. 80E-05	3. 87E-05	2. 01E-04	5. 03E-05	2. 65E-04	6. 10E-05
55-FE	5. 89E-02	4. 68E-03	<2. 1E-03		<4. 1E-03		<3. 9E-03		7. 51E-03	9. 01E-04
58-CO	1. 05E-03	1. 05E-04	1. 81E-04	4. 70E-05	2. 47E-03	1. 48E-04	3. 73E-04	6. 34E-05	1. 71E-04	6. 68E-05
60-CO	1. 46E-03	1. 02E-04	3. 54E-04	1. 77E-05	1. 57E-04	3. 61E-05	2. 07E-03	1. 03E-04	1. 47E-03	2. 94E-04
59-NI	<8. 2E-04		<9. 9E-04		<1. 1E-03		<1. 3E-03		<8. 6E-04	
63-NI	<5. 6E-04		<1. 0E-03		<7. 4E-04		<9. 7E-04		<8. 6E-04	
90-SR	7. 88E-05	4. 96E-05	<5. 9E-05		<9. 8E-05		2. 61E-04	7. 57E-05	<6. 9E-05	
95-ZR										
94-NB	<9. 6E-05		<2. 1E-04		<4. 0E-04		<1. 5E-04		<1. 1E-04	
99-TC	<5. 1E-05		<3. 1E-05		<2. 3E-05		<2. 6E-05		<9. 6E-04	
106-RU	<2. 6E-04		<1. 6E-04		<1. 8E-04		<1. 6E-04		<2. 8E-04	
110M-AG	<3. 3E-05		<1. 5E-05		<1. 3E-05		<1. 8E-05		<2. 4E-05	
125-SB	<2. 7E-04		<2. 2E-04		<1. 5E-04		<2. 2E-04			
129-I	<5. 6E-05		<4. 4E-05		<2. 9E-05		<2. 8E-05		<6. 7E-05	
134-CS	3. 47E-03	1. 74E-04	6. 59E-03	3. 29E-04	6. 58E-04	3. 29E-05	6. 17E-03	3. 09E-04	1. 57E-02	7. 85E-04
135-CS										
137-CS	6. 89E-03	3. 45E-04	1. 21E-02	6. 05E-04	1. 08E-03	9. 71E-05	1. 23E-02	6. 13E-04	2. 78E-02	1. 37E-03
141-CE	<2. 6E-05		<2. 1E-05		<1. 8E-05		<2. 0E-05		<3. 6E-05	
143-CE	<9. 0E-05		<7. 9E-05		<6. 3E-05		<6. 8E-05		<1. 3E-04	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	4. 19E-06	9. 21E-07	9. 13E-06	1. 73E-06	4. 52E-06	9. 05E-07	5. 73E-05	8. 59E-06	1. 64E-06	5. 74E-07
239-PU	8. 48E-06	1. 36E-06	1. 13E-05	1. 91E-06	6. 62E-06	1. 12E-06	1. 27E-05	4. 20E-06	2. 67E-06	7. 48E-07
241-PU	5. 00E-04	1. 45E-04	7. 46E-04	2. 98E-04	8. 25E-04	2. 72E-04	2. 58E-03	1. 60E-03	4. 08E-04	1. 47E-04
241-AM	<3. 0E-06		3. 87E-06	1. 55E-06	1. 06E-06	3. 50E-07	1. 08E-05	3. 77E-06	1. 23E-06	4. 17E-07
242-CM	<4. 2E-06		<6. 5E-07		<4. 4E-07		<2. 8E-06		<3. 0E-07	
244-CM	<3. 9E-06		<7. 5E-07		1. 53E-06	4. 14E-07	<1. 0E-06		<5. 4E-07	

# RADIOACTIVE WASTE SAMPLE LISTING

S A I   D A T A B A S E

PLANT NAME:	NORTH ANNA	NORTH ANNA	NORTH ANNA	NORTH ANNA	NORTH ANNA
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-JUN-78	1-JUN-78	1-JUN-78	1-JUN-78	1-JUN-78
SAMPLE TYPE:	DRY ACTIVE WASTE	DRY ACTIVE WASTE	DRY ACTIVE WASTE	DRY ACTIVE WASTE	DRY ACTIVE WASTE
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	PRIMARY	PRIMARY
SAMPLING DATE:	18-OCT-83	18-OCT-83	18-OCT-83	18-OCT-83	18-OCT-83
SAMPLE NUMBER:	10359	10360	10361	10362	10363

Concentrations in microcuries/gram

A-183

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<4. 0E-04		<6. 5E-04		<1. 2E-04		<4. 6E-04		<2. 3E-04	
14-C	<2. 3E-04		<1. 8E-04		<2. 2E-04		<1. 1E-04		1. 62E-04	8. 72E-05
54-MN	<5. 5E-06		<7. 7E-05		1. 88E-04	9. 58E-05	1. 25E-03	8. 74E-05	2. 83E-04	6. 23E-05
55-FE	<1. 3E-03		<2. 5E-03		3. 47E-03	1. 15E-03	9. 38E-03	9. 38E-04	3. 97E-03	7. 55E-04
58-CO	<6. 5E-06		1. 41E-04	3. 81E-05	5. 50E-04	1. 05E-04	1. 54E-04	5. 71E-05	1. 96E-04	6. 85E-05
60-CO	2. 57E-04	2. 06E-05	5. 58E-04	2. 79E-05	3. 37E-03	5. 72E-04	4. 15E-03	2. 07E-04	1. 96E-03	3. 54E-04
59-NI	<8. 5E-04		<9. 7E-04		<2. 9E-04		<8. 0E-04		<2. 9E-03	
63-NI	<6. 6E-04		<6. 5E-04		<6. 0E-04		<5. 4E-04		<8. 5E-04	
90-SR	<6. 7E-05		1. 88E-04	6. 41E-05	<5. 9E-05		<8. 4E-05		9. 66E-04	8. 69E-05
95-ZR										
94-NB	<1. 1E-04		<1. 8E-04		<1. 9E-04		<1. 2E-04		<1. 2E-04	
99-TC	<1. 7E-04		<2. 4E-05		<2. 9E-05		<5. 0E-05		<3. 2E-05	
106-RU	<4. 7E-05		<8. 5E-05		<4. 1E-04		<1. 5E-04		<2. 6E-04	
110M-AG	<7. 3E-06		<1. 2E-05		<4. 3E-05		<2. 3E-05		<2. 4E-05	
125-SB	<4. 5E-05		<1. 1E-04		<5. 0E-04		<1. 4E-04			
129-I	<4. 5E-05		<1. 3E-05		<1. 9E-05		<4. 4E-05		<3. 0E-05	
134-CS	2. 56E-04	1. 28E-05	1. 95E-03	9. 74E-05	1. 27E-02	6. 34E-04	1. 77E-03	8. 83E-05	1. 34E-02	6. 68E-04
135-CS										
137-CS	5. 45E-04	3. 27E-05	3. 57E-03	1. 79E-04	2. 27E-02	1. 14E-03	3. 53E-03	1. 77E-04	2. 45E-02	1. 22E-03
141-CE	<5. 0E-06		<1. 1E-05		<3. 8E-05		<1. 3E-05		<3. 7E-05	
144-CE	<2. 0E-05		<3. 9E-05		<1. 4E-04		<5. 1E-05		6. 12E-03	1. 04E-03
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	3. 50E-05	4. 20E-06	<1. 3E-04		<5. 6E-05		<3. 5E-05		1. 67E-05	6. 01E-06
239-PU	3. 08E-05	4. 01E-06	6. 94E-06	4. 16E-06	<2. 7E-05		<1. 9E-06		6. 19E-05	1. 18E-05
241-PU	9. 21E-03	1. 57E-03	8. 59E-03	1. 72E-03	2. 07E-03	9. 52E-04	<2. 6E-03		2. 30E-03	1. 38E-03
241-AM	8. 26E-06	2. 81E-06	7. 25E-06	3. 12E-06	8. 03E-06	2. 97E-06	<3. 3E-06		4. 19E-06	2. 09E-06
242-CM	7. 05E-06	2. 89E-06	<1. 3E-06		<1. 1E-06		<1. 3E-06		<1. 3E-07	
244-CM	<1. 2E-06		<1. 0E-06		9. 14E-06	3. 11E-06	<1. 7E-06		3. 67E-06	1. 94E-06

# RADIOACTIVE WASTE SAMPLE LISTING

## SAI DATABASE

PLANT NAME:	SURRY	SURRY	SURRY	SURRY	SURRY
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-DEC-72	1-DEC-72	1-DEC-72	1-DEC-72	1-DEC-72
SAMPLE TYPE:	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE	FILTER SLUDGE
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	PRIMARY	PRIMARY
SAMPLING DATE:	13-OCT-83	17-OCT-83	17-OCT-83	17-OCT-83	17 OCT 83
SAMPLE NUMBER:	10391	10392	10393	10394	10395

Concentrations in microcuries/gram

A-184

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<5. 7E-02		<1. 7E-01		8. 52E-02	2. 04E-02	8. 82E-03	1. 50E-03	4. 59E-02	5. 51E-03
14-C	6. 02E-01	3. 61E-02	3. 50E-01	3. 15E-02	3. 28E+00	1. 64E-01	6. 89E-02	3. 45E-03	7. 29E-01	3. 64E-02
54-MN	3. 52E+01	4. 22E+00	7. 55E+01	3. 78E+00	5. 18E+01	5. 70E+00	4. 49E-01	1. 39E-01	1. 85E+01	9. 25E-01
55-FE	1. 51E+01	7. 56E-01	5. 48E+02	2. 74E+01	1. 86E+03	9. 29E+01	2. 18E+01	1. 09E+00	2. 65E+01	1. 33E+00
58-CO	5. 84E+02	2. 92E+01	3. 74E+02	1. 87E+01	1. 73E+02	8. 64E+00	1. 06E+00	1. 48E-01	2. 31E+02	1. 15E+01
60-CO	5. 88E+02	2. 94E+01	5. 21E+02	2. 60E+01	2. 48E+03	1. 24E+02	2. 43E+01	1. 22E+00	2. 91E+02	1. 45E+01
59-NI	<2. 0E-01		4. 27E+00	6. 83E-01	8. 04E+00	4. 02E-01	9. 21E-02	1. 66E-02	3. 84E-01	2. 31E-02
63-NI	4. 89E+01	2. 44E+00	2. 13E+02	1. 07E+01	4. 72E+02	2. 36E+01	5. 70E+00	2. 85E-01	2. 50E+01	1. 25E+00
90-SR	<1. 7E-02		1. 72E-01	1. 38E-02	3. 10E-02	2. 79E-03	1. 03E-03	2. 16E-04	1. 16E-02	5. 80E-04
95-ZR	1. 60E+01	7. 03E+00	1. 72E+01	1. 72E+00	1. 35E-01	3. 76E-03	1. 95E+00	3. 82E-02	3. 61E+00	8. 31E-01
94-NB	<3. 8E-02		<6. 6E-04		1. 49E-01	7. 45E-03	3. 46E-03	1. 04E-03	<1. 5E-03	
99-TC	<5. 3E-03		<8. 4E-03		<9. 6E-03		<1. 9E-04		<6. 3E-04	
106-RU	<1. 2E+01		<9. 5E+00		<1. 6E+01		<3. 6E-01		<2. 0E+00	
110M-AG	<2. 1E+00				<3. 3E+00		<7. 5E-02		<1. 3E+00	
125-SB	<9. 4E+00		1. 05E+01	6. 33E+00	3. 13E+01	1. 50E+01	<2. 5E-01		<1. 4E+00	
129-I	<2. 4E-02		1. 60E-02	7. 19E-03	2. 21E-03	1. 11E-03	<1. 9E-04		<1. 4E-04	
134-CS	6. 95E+00	6. 95E-01	<9. 9E-01		<1. 6E+00		<3. 5E-02		<2. 1E-01	
135-CS										
137-CS	<1. 3E+00		<1. 1E+00		<1. 8E+00		<4. 3E-02			
141-CE	<1. 2E+00		9. 70E-01	4. 46E-01	<1. 3E+00		<9. 2E-04		1. 02E-02	2. 96E-03
144-CE	<3. 8E+00		1. 96E+01	1. 18E+00	<4. 3E+00		6. 85E-02	6. 85E-03	3. 33E-01	1. 67E-02
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-FU	1. 08E-03	3. 58E-04	5. 94E-02	2. 97E-03	7. 40E-03	3. 70E-04	6. 38E-04	3. 83E-05	1. 51E-03	7. 57E-05
239-FU	4. 52E-04	2. 30E-04	4. 69E-02	2. 34E-03	6. 74E-03	3. 37E-04	5. 77E-04	4. 04E-05	6. 94E-04	4. 16E-05
241-FU	1. 55E-01	4. 34E-02	5. 31E+00	4. 78E-01	1. 99E+00	9. 94E-02	8. 42E-02	7. 58E-03	1. 14E-01	1. 03E-02
241-AM	7. 81E-04	3. 44E-04	6. 69E-02	2. 28E-02	3. 95E-03	1. 97E-04	3. 28E-04	6. 56E-05	3. 29E-04	3. 95E-05
242-CM	4. 04E-03	8. 89E-04	6. 47E-02	2. 20E-02	5. 18E-03	2. 59E-04	3. 59E-04	7. 90E-05	4. 86E-03	2. 43E-04
244-CM	3. 90E-04	2. 46E-04	<1. 9E-02		5. 02E-03	2. 51E-04	1. 82E-04	4. 91E-05	5. 73E-04	5. 15E-05

# RADIOACTIVE WASTE SAMPLE LISTING

## SAI DATABASE

PLANT NAME:	SURRY	SURRY	SURRY	MCGUIRE	MCGUIRE
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-DEC-72	1-DEC-72	1-DEC-72	1-DEC-81	1-DEC-81
SAMPLE TYPE:	FILTER SLUDGE	DRY ACTIVE WASTE	DRY ACTIVE WASTE	DRY ACTIVE WASTE	DRY ACTIVE WASTE
SAMPLE SUB-TYPE:	FUEL POOL	SECONDARY	SMEAR	FILTER	PRIMARY
SAMPLING DATE:	17-OCT-83	20-OCT-83	20-OCT-83	03-AUG-83	03-AUG-83
SAMPLE NUMBER:	10396	10397	10398	10435	10436

Concentrations in microcuries/gram

A-185

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	1.18E-02	1.30E-03	<1.4E-05		<6.1E-05		<5.5E-04		<4.0E-04	
14-C	4.39E-02	2.19E-03	3.41E-03	1.70E-04	1.63E-03	2.76E-04	<5.0E-04		1.29E-03	1.68E-04
54-MN	3.92E+00	4.31E-01	7.71E-03	6.17E-04	3.57E-04	9.28E-05	4.95E-02	2.47E-03	4.36E-01	2.18E-02
55-FE	2.25E+02	1.13E+01	1.31E-01	6.55E-03	9.93E-03	8.93E-04				
58-CO	2.88E+01	1.44E+00	5.62E-02	2.81E-03	2.41E-03	1.44E-04	1.66E-01	8.32E-03	1.48E+00	7.42E-02
60-CO	1.09E+02	5.45E+00	9.85E-02	4.93E-03	8.35E-03	4.18E-04	1.85E-01	9.26E-03	1.88E+00	9.38E-02
59-NI	3.41E-01	1.70E-02	<3.4E-03		1.48E-02	3.70E-03	<1.3E-03		<1.2E-02	
63-NI	2.23E+01	1.12E+00	4.40E-02	2.20E-03	8.74E-03	6.99E-04	1.51E-02	1.21E-03	9.58E-02	4.79E-03
90-SR	3.38E-03	3.38E-04	1.20E-04	4.68E-05	9.57E-05	4.21E-05	9.73E-05	6.13E-05	3.28E-04	6.24E-05
95-ZR	9.11E-01	2.92E-01					1.58E-02	7.89E-04	9.10E-02	3.82E-02
94-NB	5.74E-02	2.87E-03	<1.4E-04		<1.1E-04		<3.2E-04		<4.8E-04	
99-TC	<1.1E-03		<4.2E-05		<2.0E-05		<7.5E-05		<3.1E-04	
106-RU	<1.2E+00		<1.8E-03		<2.6E-04		<2.8E-03		<3.3E-02	
110M-AG	<2.3E-01		1.23E-03	7.99E-04	<4.2E-05		4.47E-03	4.47E-04	2.12E-01	1.06E-02
125-SB			<1.9E-03		<2.8E-04		<1.8E-03		<2.2E-02	
129-I	<1.4E-04		<4.2E-05		<8.9E-05		<5.8E-05		<3.9E-05	
134-CS	<1.2E-01		1.15E-01	5.77E-03	7.03E-03	3.52E-04	<2.8E-04		<2.9E-03	
135-CS										
137-CS	<1.4E-01		2.11E-01	1.06E-02	1.28E-02	6.40E-04	<3.2E-04		<4.7E-03	
141-CE	1.96E-02	4.12E-03	<1.2E-04		<2.6E-05		<1.6E-04		<9.2E-04	
144-CE	1.52E+00	7.60E-02	1.91E-03	6.30E-04	<9.8E-05		<5.7E-03		<3.2E-04	
152-EU										
154-EU										
155-EU										
235-U							<8.4E-07		<1.7E-06	
238-U	<1.1E+01						<3.7E-07		<1.8E-07	
238-PU	2.20E-03	1.10E-04	1.36E-05	2.31E-06	1.07E-05	2.36E-06	2.60E-06	9.88E-07	3.99E-06	7.57E-07
239-PU	1.88E-03	9.38E-05	4.11E-05	4.31E-06	6.32E-06	1.77E-06	7.10E-06	1.63E-06	3.48E-06	6.96E-07
241-PU	2.37E-01	1.19E-02	1.40E-03	3.78E-04	3.64E-03	6.19E-04	4.00E-04	1.48E-04	6.77E-04	2.78E-04
241-AM	2.50E-04	1.50E-05	4.10E-04	1.23E-06	2.33E-06	8.86E-07	<3.4E-06		2.25E-06	4.96E-07
242-CM	1.62E-03	8.08E-05	1.60E-05	2.72E-06	<8.5E-07		<1.7E-06		1.48E-06	5.47E-07
244-CM	2.25E-04	1.35E-05	3.40E-04	1.09E-06	<8.2E-07		<2.9E-06		<1.9E-07	

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	MCGUIRE	FARLEY	FARLEY	FARLEY	FARLEY
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-DEC-81	1-DEC-77	1-DEC-77	1-DEC-77	1-DEC-77
SAMPLE TYPE:	DRY ACTIVE WASTE	FILTER CARTRIDGE	FILTER CARTRIDGE	DRY ACTIVE WASTE	DRY ACTIVE WASTE
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	SMEAR	SMEAR
SAMPLING DATE:	03-AUG-83	31-OCT-83	31-OCT-83	31-OCT-83	31-OCT-83
SAMPLE NUMBER:	10437	10438	10439	10440	10441

Concentrations in microcuries/gram

A-186

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<6. 2E-04		<5. 1E-04		<2. 1E-04		<2. 9E-04		<3. 6E-04	
14-C	1. 60E-03	1. 76E-04	5. 80E-03	2. 90E-04	7. 66E-03	3. 83E-04	3. 50E-03	1. 75E-04	4. 26E-04	1. 40E-04
34-MN	8. 38E-02	4. 19E-03	7. 53E-01	6. 78E-02	3. 41E+00	1. 71E-01	6. 92E-01	5. 54E-02	1. 44E-03	3. 75E-04
55-FE										
58-CD	1. 27E+00	6. 36E-02	4. 38E+00	2. 19E-01	1. 27E+01	6. 34E-01	2. 02E+01	1. 01E+00	8. 87E-03	6. 21E-04
60-CD	3. 03E-01	1. 51E-02	1. 14E+01	5. 70E-01	1. 34E+01	6. 68E-01	3. 60E+00	1. 80E-01	1. 33E-02	6. 65E-04
59-NI	5. 05E-02	1. 21E-02	3. 92E-02	4. 32E-03	3. 72E-02	3. 34E-03	1. 81E-02	4. 17E-03	<2. 9E-03	
63-NI	5. 16E-02	2. 58E-03	2. 54E+00	1. 27E-01	1. 38E+00	6. 92E-02	1. 43E+00	7. 14E-02	5. 37E-03	5. 91E-04
90-SR	3. 88E-04	6. 59E-05	4. 90E-02	2. 45E-03	3. 00E-04	6. 61E-05	1. 95E-04	5. 86E-05	<8. 5E-05	
95-ZR	4. 85E-02	2. 42E-03	6. 17E+00	3. 09E-01	2. 73E+00	1. 37E-01	5. 98E-01	2. 99E-02	1. 44E-03	1. 73E-04
94-NB	<2. 7E-04		9. 39E-04	2. 53E-04	6. 72E-04	3. 36E-05	<4. 4E-04		<3. 3E-04	
99-TC	<4. 4E-05		<1. 3E-03		<1. 1E-04		<3. 8E-05		<6. 2E-05	
106-RU	<1. 0E-02		<2. 2E-01		<2. 3E-01		<2. 6E-01		<9. 7E-04	
110M-AG	1. 93E-02	2. 32E-03	5. 82E-01	4. 66E-02	4. 67E-01	7. 94E-02	<2. 3E-02		1. 18E-03	1. 53E-04
125-SB	<6. 2E-03		<1. 6E-01		6. 46E-01	3. 04E-01	<1. 9E-01		<7. 7E-04	
129-I	<5. 6E-05		2. 69E-04	1. 45E-04	<2. 3E-04		<6. 1E-05		<2. 4E-05	
134-CS	<9. 9E-04		<2. 1E-02		<2. 5E-02		<3. 0E-02		<1. 2E-04	
135-CS										
137-CS	<1. 1E-03		<2. 4E-02		<2. 6E-02		<2. 6E-02		<1. 7E-04	
141-CE	<9. 8E-04		5. 95E-01	5. 95E-02	<2. 0E-02		3. 40E-02	9. 18E-03	<1. 0E-04	
144-CE	<2. 1E-04		2. 44E+00	1. 22E-01	<6. 8E-02		3. 20E-02	8. 00E-03	3. 12E-03	1. 06E-03
152-EU										
154-EU										
155-EU										
235-U	<8. 6E-07									
238-U	<1. 4E-07									
238-PU	5. 69E-06	1. 19E-06	5. 07E-04	2. 54E-05	6. 47E-06	8. 41E-07	6. 35E-06	8. 89E-07	4. 71E-06	6. 59E-07
239-PU	6. 19E-06	1. 24E-06	7. 55E-03	3. 77E-04	3. 63E-05	1. 82E-06	5. 08E-06	8. 12E-07	2. 10E-06	4. 41E-07
241-PU	2. 29E-03	1. 83E-04	3. 12E-01	5. 61E-02	6. 65E-03	7. 31E-04	2. 25E-03	3. 60E-04	1. 05E-03	2. 42E-04
241-AM	2. 03E-06	6. 92E-07	4. 62E-04	2. 31E-05	3. 68E-06	7. 36E-07	1. 47E-05	3. 97E-06	3. 73E-06	8. 95E-07
242-CM	3. 46E-06	1. 25E-06	5. 37E-03	2. 69E-04	3. 08E-05	2. 46E-06	1. 24E-04	6. 19E-06	8. 36E-06	1. 50E-06
244-CM	5. 39E-07	3. 55E-07	1. 33E-04	1. 07E-05	2. 32E-06	5. 80E-07	2. 22E-05	4. 88E-06	<3. 3E-07	



# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	SURRY	SURRY	SURRY	SURRY	SURRY
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-DEC-72	1-DEC-72	1-DEC-72	1-DEC-72	1-DEC-72
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLE SUB-TYPE:	RADWASTE	RADWASTE	RADWASTE	RADWASTE	FUEL POOL
SAMPLING DATE:	01-NOV-83	01-NOV-83	01-NOV-83	01-NOV-83	01-NOV-83
SAMPLE NUMBER:	10443	10444	10445	10446	10447

Concentrations in microcuries/gram

A-187

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	2.41E-03	1.69E-04	4.76E-03	2.38E-04	1.50E-03	4.95E-04	2.73E-03	4.64E-04	5.30E-02	1.16E-02
14-C	1.79E-04	8.95E-06	7.16E-04	3.58E-05	<9.5E-02		<2.5E-01		3.48E-02	1.74E-03
54-MN	3.35E-03	3.02E-04	1.04E-02	7.30E-04	4.41E+00	3.97E-01	3.02E+00	4.23E-01	<5.3E-01	
55-FE	4.14E-02	7.45E-03	2.90E-02	1.45E-03	3.72E+00	4.84E-01	1.23E+01	1.11E+00	2.31E+00	3.00E-01
58-CO	3.66E-02	5.85E-03	1.00E-01	5.01E-03	2.23E+02	1.11E+01	3.40E+01	1.70E+00	7.51E+01	3.76E+00
60-CO	4.78E-02	2.39E-03	1.19E-01	5.93E-03	7.34E+01	3.67E+00	1.06E+02	5.31E+00	3.92E+02	1.96E+01
59-NI	<5.1E-04		<5.5E-04		2.76E-01	1.38E-02	3.47E-01	1.74E-02	8.07E-01	4.04E-02
63-NI	<1.6E-04		1.88E-04	6.21E-05	3.62E+01	1.81E+00	4.06E+01	2.03E+00	9.98E+01	4.99E+00
90-SR	<8.9E-06		4.24E-05	5.52E-06	3.58E-02	1.79E-03	3.81E-01	1.90E-02	2.62E-01	1.31E-02
95-ZR	<1.3E-03						1.37E-01	2.87E-03		
94-NB	<4.5E-05		<2.2E-05		<7.4E-04		1.63E-03	8.15E-05	<1.9E-03	
99-TC	<2.5E-05		<2.5E-05		<5.7E-04		<1.4E-03		<1.7E-03	
106-RU	<9.6E-04		<2.7E-03		<1.7E+00		<1.5E+00		<4.1E+00	
110M-AG	2.21E-03	1.77E-04	3.84E-03	5.00E-04	1.07E+00	3.32E-01	<1.5E+00		<8.3E-01	
125-SB	<8.2E-04		<2.8E-03		3.63E+00	1.23E+00	4.38E+00	7.00E-01	<3.1E+00	
129-I	<1.7E-06		<1.7E-06		8.20E-05	2.79E-05	9.32E-04	4.66E-05	1.62E-04	7.61E-05
134-CS	1.83E-02	9.15E-04	1.42E-01	7.09E-03	2.01E+01	1.00E+00	8.58E+01	4.29E+00	1.88E+01	9.42E-01
135-CS										
137-CS	3.06E-02	1.53E-03	2.58E-01	1.29E-02	1.77E+01	8.84E-01	1.09E+02	5.43E+00	2.71E+01	1.35E+00
141-CE	<5.7E-05		<2.4E-04		4.76E-03	1.71E-03	5.44E-03	1.25E-03	3.86E-03	2.20E-03
144-CE	7.04E-04	2.18E-04	2.87E-03	8.31E-04	6.09E-02	3.65E-03	7.16E-01	3.58E-02	2.04E-01	1.02E-02
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	2.90E-06	2.90E-07	8.82E-06	5.29E-07	1.20E-04	7.19E-06	3.03E-03	1.52E-04	1.50E-03	7.48E-05
239-PU	2.02E-06	2.43E-07	6.84E-06	4.10E-07	9.10E-05	6.37E-06	2.33E-03	1.17E-04	9.41E-04	4.70E-05
241-PU	4.14E-04	7.87E-05	7.91E-04	3.95E-05	1.73E-02	8.66E-04	2.18E-01	2.18E-02	3.47E-01	1.74E-02
241-AM	1.35E-06	5.52E-07	4.43E-06	1.37E-06	8.42E-05	1.01E-05	3.99E-04	1.99E-05	1.33E-04	1.07E-05
242-CM	9.16E-06	1.65E-06	3.55E-05	4.26E-06	1.37E-03	9.60E-05	5.45E-04	2.72E-05	1.85E-03	9.23E-05
244-CM	1.46E-06	5.86E-07	3.89E-06	1.28E-06	7.11E-05	9.24E-06	6.71E-04	3.36E-05	2.57E-04	1.54E-05

RADIOACTIVE WASTE SAMPLE LISTING  
SAI DATABASE

PLANT NAME:	SURRY	DUANE ARNOLD	DUANE ARNOLD	DUANE ARNOLD	DUANE ARNOLD
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-DEC-72	1-MAY-74	1-MAY-74	1-MAY-74	1-MAY-74
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLE SUB-TYPE:	SECONDARY	PRIMARY	PRIMARY	PRIMARY	PRIMARY
SAMPLING DATE:	01-NOV-83	01-JUN-83	15-OCT-83	07-OCT-83	17-OCT-83
SAMPLE NUMBER:	10448	10449	10450	10451	10452

Concentrations in microcuries/gram

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>		
A-188	3-H	6.44E-03	3.22E-04	<3.2E-04			<6.2E-04		4.26E-04	1.70E-04	6.74E-04	2.02E-04
	14-C	7.30E-04	3.65E-05	1.41E-03	7.06E-05	3.51E-04	5.61E-05	8.68E-05	2.52E-05	5.52E-04	3.86E-05	
	54-MN	7.50E-04	2.62E-04	7.17E-01	3.59E-02	1.84E-01	1.84E-02	1.54E-01	1.23E-02	3.59E+00	1.79E-01	
	55-FE	3.88E-02	3.49E-03	2.14E+00	1.93E-01	1.66E+00	8.31E-02	1.18E+00	5.90E-02	5.47E+00	6.01E-01	
	58-CO	1.61E-02	8.06E-04	<3.7E-02		3.58E-02	1.86E-02	5.47E-02	1.37E-02	8.68E-01	9.55E-02	
	60-CO	1.55E-02	7.73E-04	6.62E+00	3.31E-01	2.96E+00	1.48E-01	1.80E+00	8.99E-02	1.81E+01	9.04E-01	
	59-NI	<1.3E-04		3.06E-02	3.06E-03	<7.1E-04		7.61E-03	2.74E-03	<6.0E-04		
	63-NI	8.57E-03	4.28E-04	9.06E-02	4.53E-03	5.78E-02	2.89E-03	4.78E-02	2.39E-03	1.87E-01	9.34E-03	
	90-SR	1.95E-05	8.57E-06	4.73E-04	4.73E-05	2.48E-04	8.68E-05	2.06E-04	3.70E-05	1.72E-03	8.60E-05	
	95-ZR	<1.1E-03										
	94-NB	<4.6E-05		<8.7E-05		<3.1E-04		<1.3E-04		<2.4E-04		
	99-Tc	<6.5E-06		<1.8E-05		<4.6E-05		<3.4E-05		<2.9E-05		
	106-RU	<9.2E-04		<8.1E-02		<4.1E-02		<2.8E-02		<2.2E-01		
	110M-AG	2.20E-03	1.98E-04	<5.7E-02		<8.7E-03		<6.1E-03		<4.5E-02		
	125-SB	8.79E-03	3.87E-03	<5.0E-02		<3.0E-02		<2.0E-02		<1.5E-01		
	129-I	6.98E-05	6.28E-06	<8.8E-06		<3.7E-05		<2.3E-05		<3.6E-05		
	134-CS	1.43E-03	2.00E-04	<4.5E-02		2.19E-02	1.10E-02	1.28E-02	7.44E-03	<2.1E-02		
	135-CS											
	137-CS	8.06E-04	4.03E-04	6.59E-02	2.04E-02	4.47E-02	1.39E-02	4.32E-02	9.07E-03	<9.2E-02		
	141-CE	<1.3E-05		<7.5E-03		<4.9E-03		<1.3E-03		<3.8E-03		
	144-CE	2.63E-04	6.58E-05	<6.6E-04		<1.2E-02		<1.4E-03		<1.1E-03		
	152-EU											
	154-EU											
	155-EU											
	235-U											
	238-U											
	238-PU	7.55E-07	2.64E-07	3.87E-06	8.91E-07	1.07E-05	1.82E-06	5.71E-06	5.71E-07	1.35E-05	1.49E-06	
	239-PU	2.05E-06	4.52E-07	6.46E-07	3.68E-07	3.54E-06	1.06E-06	2.09E-06	3.55E-07	7.49E-06	1.12E-06	
	241-PU	1.55E-04	4.50E-05	3.17E-04	9.83E-05	5.17E-04	1.86E-04	2.94E-04	7.36E-05	4.74E-04	1.38E-04	
	241-AM	2.50E-07	1.12E-07	3.97E-06	9.13E-07	4.99E-05	6.99E-06	9.60E-07	2.02E-07	<2.0E-05		
	242-CM	2.02E-06	3.64E-07	2.20E-06	1.03E-06	<1.6E-06		2.54E-06	4.06E-07	<3.6E-05		
	244-CM	7.62E-07	1.98E-07	1.09E-06	4.78E-07	1.53E-05	3.97E-06	3.99E-07	1.28E-07	5.06E-05	3.04E-05	

RADIOACTIVE WASTE SAMPLE LISTING  
SAI DATABASE

PLANT NAME:	DUANE ARNOLD	DUANE ARNOLD	DUANE ARNOLD	SURRY	PILGRIM
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	BWR	BWR	BWR	PWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	SEACOAST
START-UP DATE:	1-MAY-74	1-MAY-74	1-MAY-74	1-DEC-72	1-DEC-72
SAMPLE TYPE:	FILTER CARTRIDGE	DRY ACTIVE WASTE	REACTOR COOLANT	RESIN	REACTOR COOLANT
SAMPLE SUB-TYPE:	RADWASTE	SMEAR	TOTAL	PRIMARY	SDLID
SAMPLING DATE:	27-OCT-83	04-NOV-83	27-OCT-83	02-NOV-83	01-NOV-83
SAMPLE NUMBER:	10453	10454	10455	10556	10490

Concentrations in microcuries/gram

A-189

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H					1.17E-03	5.84E-05	4.83E-02	2.42E-03		
14-C	4.42E-03	1.42E-03	1.72E-04	6.86E-05	2.14E-07	7.69E-08	1.81E-03	9.06E-05	<3.3E-08	
54-MN	1.95E-02	9.75E-04	2.72E+00	1.36E-01	4.13E-04	1.46E-05	1.32E-01	1.72E-02	9.10E-06	4.55E-07
55-FE	3.83E-01	1.91E-02	8.10E+01	5.67E+00			2.73E-01	1.91E-02		
58-CD	7.16E-03	6.45E-04	2.33E-01	6.77E-02	3.57E-04	1.44E-05	1.41E+00	7.04E-02	6.84E-06	3.42E-07
60-CD	5.09E-02	2.54E-03	1.87E+01	9.36E-01	1.02E-03	3.96E-05	1.94E+00	2.33E-01	1.57E-05	7.85E-07
59-NI	<1.6E-02		1.92E-02	3.07E-03			9.28E-03	7.42E-04		
63-NI	<1.7E-02		1.35E+00	6.77E-02			6.39E-01	3.19E-02		
90-SR	<1.6E-03		9.22E-04	7.38E-05	1.06E-07	5.71E-08	2.41E-03	1.20E-04		
95-ZR									7.00E-07	1.61E-07
94-NB	<4.6E-03						<4.9E-05		<5.8E-08	
99-TC	<6.2E-04		<4.6E-05				<1.6E-04			
106-RU	<1.4E-03		<1.7E-01		<5.5E-06		<9.0E-02		<2.3E-07	
110M-AG	<4.9E-03		<1.5E-01		<8.6E-07		<9.1E-03		<3.9E-08	
125-SB	<8.1E-04		<1.2E-01		<3.7E-06		<1.0E-01		<1.4E-07	
129-I	<4.5E-05		<4.1E-05				<4.2E-04			
134-CS	<1.4E-04		<1.7E-02		<6.2E-07		9.24E+00	4.62E-01	<1.9E-06	
135-CS										
137-CS	<1.7E-04		<2.0E-02		<5.6E-07		1.34E+01	6.70E-01	<2.4E-08	
141-CE	<9.1E-05		<2.1E-04		<4.4E-07		<8.3E-05		5.39E-06	2.69E-07
144-CE	<2.7E-04		2.00E-03	6.20E-04	<1.9E-07		1.84E-02	9.20E-04	<5.3E-08	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	5.56E-05	1.44E-05	5.19E-06	1.25E-06	5.85E-10	1.40E-10	4.21E-05	2.11E-06	1.99E-09	2.99E-10
239-PU	1.46E-05	7.46E-06	1.37E-05	2.06E-06	3.53E-10	1.09E-10	3.10E-05	1.55E-06	2.38E-09	3.33E-10
241-PU	7.11E-03	3.77E-03	2.20E-03	2.86E-04	1.91E-07	6.11E-08	3.01E-03	1.51E-04	3.61E-07	8.31E-08
241-AM	2.90E-05	1.19E-05	6.87E-06	1.03E-06	<1.6E-09		9.71E-06	4.86E-07	2.57E-10	9.75E-11
242-CM	<4.5E-06		1.59E-05	1.75E-06	<5.7E-10		1.92E-04	9.62E-06	5.36E-10	1.61E-10
244-CM	1.14E-05	7.49E-06	1.38E-06	4.70E-07	<9.6E-10		2.70E-05	1.35E-06	<1.3E-10	

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	PILGRIM	PILGRIM	NORTH ANNA	NORTH ANNA	1
UNIT NUMBER:	1	1	1	2	1
PLANT TYPE:	BWR	BWR	PWR	PWR	PWR
PLANT LOCATION:	SEACAST	SEACAST	INLAND	INLAND	INLAND
START-UP DATE:	1-DEC-72	1-DEC-72	1-JUN-78	1-DEC-80	1-DEC-70
SAMPLE TYPE:	RESIN	RESIN	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLE SUB-TYPE:	RADWASTE	FUEL POOL	TOTAL	TOTAL	SOLID
SAMPLING DATE:	01-NOV-83	01-NOV-83	16-NOV-83	16-NOV-83	19-JAN-83
SAMPLE NUMBER:	10492	10493	10501	10503	10520

Concentrations in microcuries/gram

A-190

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-h	5.14E-04	1.80E-04	<3.3E-04						1.25E-07	3.64E-08
14-C	6.11E-03	3.05E-04	1.61E-03	8.05E-05					2.98E-06	1.49E-07
54-MN	4.86E-02	2.43E-03	1.74E-01	5.21E-02	6.17E-06	3.08E-07	1.01E-05	2.08E-06	1.33E-06	1.07E-07
55-FE	1.43E-03	2.86E-04	3.32E-01	2.32E-02						
58-CD	3.06E-02	1.53E-03	<2.1E-02		2.91E-04	1.91E-05	7.52E-05	3.42E-06	2.02E-05	1.01E-06
60-CO	4.27E-01	2.13E-02	1.41E+01	7.02E-01	5.67E-05	7.83E-06	6.62E-06	1.88E-06	1.72E-05	8.62E-07
59-NI	<8.0E-04		1.60E-02	1.28E-03						
63-NI	8.14E-03	4.07E-04	1.44E+00	7.22E-02					1.49E-06	7.46E-08
90-SR	1.36E-03	6.81E-05	9.78E-03	4.89E-04	2.41E-06	1.07E-07	1.37E-06	6.78E-08	3.06E-07	1.53E-08
95-ZR					2.66E-05	1.33E-06	2.61E-06	2.09E-07	7.10E-06	9.23E-07
94-NB	<8.8E-05		<7.9E-05							
99-TC	<7.3E-04		<3.6E-04						<6.5E-08	
106-RU	<3.4E-03		<1.9E-01		<1.1E-04		<1.1E-05		<3.0E-07	
110M-AG	<7.4E-04		<2.8E-02		<4.0E-06		1.22E-07	4.41E-08	1.66E-06	1.99E-07
125-SB	<2.4E-03		<2.4E-01		<1.5E-04		<1.4E-05			
129-I	<1.4E-05		4.24E-05	5.51E-06					<9.3E-09	
134-CS	1.03E-02	5.16E-04	6.25E+00	3.12E-01	1.30E-02	6.50E-04	1.42E-03	7.07E-05	6.92E-06	3.46E-07
135-CS										
137-CS	4.19E-02	2.09E-03	6.30E+01	3.15E+00	2.06E-02	1.03E-03	2.24E-03	1.12E-04	7.67E-06	3.83E-07
141-CE	3.23E-03	1.61E-04	<5.3E-05		6.02E-06	4.16E-07	<8.1E-08		3.55E-05	1.78E-05
144-CE	<3.5E-05		1.43E-03	2.00E-04	1.55E-05	7.70E-07	3.37E-07	1.48E-07	1.21E-06	9.68E-08
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	3.72E-06	4.84E-07	1.71E-03	8.54E-05	1.12E-08	9.58E-10	7.20E-09	1.06E-09	2.41E-09	2.66E-10
239-PU	3.31E-06	4.64E-07	4.09E-04	2.05E-05	1.04E-08	1.12E-09	5.26E-09	9.27E-10	2.00E-09	2.40E-10
241-PU	3.69E-04	5.54E-05	4.37E-02	2.19E-03	1.86E-06	2.77E-07	7.11E-07	2.17E-07	2.70E-07	3.51E-08
241-AM	1.62E-06	3.23E-07	1.32E-03	6.59E-05	4.12E-09	7.72E-10	1.49E-09	3.25E-10	2.12E-09	2.33E-10
242-CM	4.80E-07	2.06E-07	3.22E-04	1.61E-05	2.17E-07	1.04E-08	4.30E-09	2.84E-10	4.21E-08	2.10E-09
244-CM	8.34E-07	2.33E-07	8.20E-04	4.10E-05	5.30E-09	4.03E-10	1.73E-10	3.62E-11	2.24E-09	2.46E-10

# RADIOACTIVE WASTE SAMPLE LISTING

S A J   D A T A B A S E

PLANT NAME:	1	1	1	1
UNIT NUMBER:	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-DEC-70	1-DEC-70	1-DEC-70	1-DEC-70
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	FUEL POOL	REACTOR COOLANT
SAMPLE SUB-TYPE:	SOLID	SOLID	SOLID	SOLID
SAMPLING DATE:	23-FEB-83	13-APR-83	03-JUN-83	20-JUL-83
SAMPLE NUMBER:	10521	10522	10523	10524

Concentrations in microcuries/gram

A-191

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	2.19E-07	4.15E-08	8.64E-08	3.63E-08	<4.7E-08		<4.3E-08		<4.1E-08	
14-C	1.17E-05	5.83E-07	9.77E-06	4.89E-07	1.84E-06	9.22E-08	4.95E-07	2.97E-08	3.70E-06	1.85E-07
54-MN	2.29E-06	1.38E-07	3.59E-06	4.31E-07	1.58E-06	1.11E-07	4.52E-06	2.26E-07	2.17E-04	1.08E-05
55-FE										
58-CO	1.89E-04	9.45E-06	4.60E-05	2.30E-06	1.13E-04	5.64E-06	1.56E-04	7.81E-06	9.82E-03	4.91E-04
60-CO	1.19E-05	5.96E-07	1.31E-04	6.57E-06	1.96E-05	9.80E-07	2.83E-05	1.41E-06	2.22E-03	1.11E-04
59-NI										
63-NI	6.19E-06	3.10E-07	4.34E-06	2.17E-07	6.05E-06	3.03E-07	6.24E-06	3.12E-07	4.17E-04	2.08E-05
90-SR	2.55E-07	1.27E-08	8.80E-08	7.92E-09	2.01E-08	6.22E-09	5.94E-08	7.12E-09	6.91E-07	3.46E-08
95-ZR	2.61E-05	2.61E-06			1.81E-05	1.09E-06	2.11E-05	1.06E-06	1.53E-03	7.65E-05
94-NB										
99-TC	<9.2E-09		<3.8E-08		<4.3E-08		<5.1E-08		<1.8E-07	
106-RU	<3.8E-07		<9.9E-07		<4.2E-07		<7.6E-07		<4.0E-05	
110M-AG	1.93E-06	1.74E-07	<1.6E-06		3.90E-06	2.34E-07	8.40E-07	5.04E-08	7.95E-05	3.97E-06
125-SB	6.68E-07	2.74E-07	<3.4E-07		1.34E-06	4.16E-07	<5.1E-07		1.08E-04	5.38E-06
129-I	<3.9E-09		<3.9E-09		1.89E-08	4.52E-09	<6.3E-09		2.23E-07	3.58E-08
134-CS	1.69E-05	8.44E-07	1.06E-05	5.31E-07	1.07E-06	6.43E-08	1.85E-05	9.23E-07	3.20E-05	1.06E-05
135-CS										
137-CS	2.46E-05	1.23E-06	1.22E-05	6.08E-07	<4.3E-08		2.26E-05	1.13E-06	<3.7E-06	
141-CE	<7.8E-06		<1.5E-06		<3.8E-07		3.27E-06	5.23E-07	1.16E-04	5.80E-06
144-CE	6.96E-06	3.48E-07	1.60E-06	1.12E-07	5.83E-06	2.91E-07	2.76E-06	1.38E-07	2.14E-04	1.07E-05
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	4.04E-09	5.25E-10	7.62E-09	3.81E-10	3.32E-09	2.66E-10	7.60E-09	5.32E-10	2.40E-07	1.20E-08
239-PU	5.65E-09	6.21E-10	1.24E-08	6.19E-10	4.18E-09	3.35E-10	5.33E-09	4.26E-10	4.64E-07	2.32E-08
241-PU	5.22E-07	5.74E-08	8.40E-07	9.24E-08	5.15E-07	9.78E-08	8.47E-07	8.47E-08	4.97E-05	3.98E-06
241-AM	8.43E-10	1.52E-10	8.33E-09	4.17E-10	8.36E-09	4.18E-10	2.85E-09	2.57E-10	7.48E-08	3.74E-09
242-CM	3.98E-08	1.99E-09	4.80E-08	2.40E-09	5.69E-08	2.85E-09	1.59E-07	7.97E-09	2.36E-06	1.18E-07
244-CM	7.61E-10	1.44E-10	3.76E-09	1.88E-10	1.77E-08	8.86E-10	7.92E-09	3.96E-10	9.42E-08	4.71E-09

# RADIOACTIVE WASTE SAMPLE LISTING

## SAI DATABASE

PLANT NAME:				
UNIT NUMBER:	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-DEC-70	1-DEC-70	1-DEC-70	1-DEC-70
SAMPLE TYPE:	EVAPORATOR BOTTOMS	FUEL POOL	RESIN	DRY ACTIVE WASTE
SAMPLE SUB-TYPE:	LIQUID	SOLID	FUEL POOL	SECONDARY
SAMPLING DATE:	14-OCT-83	23-SEP-83	23-SEP-83	20-OCT-83
SAMPLE NUMBER:	10526	10527	10528	10529

Concentrations in microcuries/gram

A-192

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	2.80E-02	1.40E-03	<5.0E-08		5.00E-03	2.50E-04	<7.5E-04		8.64E-04	1.38E-04
14-C	2.65E-03	1.33E-04	6.95E-07	3.48E-08	5.75E-04	6.32E-05	7.76E-03	3.88E-04	1.58E-03	2.05E-04
54-MN	3.97E-03	2.78E-04	8.73E-07	6.11E-08	<8.5E-04		1.28E-02	1.28E-03	7.68E-04	3.64E-04
55-FE										
58-CD	8.99E-02	4.50E-03	7.95E-06	3.98E-07	1.22E-01	6.10E-03	9.05E-02	4.52E-03	<1.7E-04	
60-CD	8.53E-02	4.27E-03	1.90E-05	9.51E-07	1.06E+00	5.28E-02	3.60E-01	1.80E-02	2.29E-02	1.61E-03
59-NI										
63-NI	3.32E-02	1.66E-03	3.27E-06	1.63E-07	2.74E-01	1.37E-02	2.73E-01	1.36E-02	1.08E-02	5.38E-04
90-SR	2.88E-04	1.44E-05	2.29E-08	5.95E-09	4.04E-04	3.64E-05	2.68E-03	1.34E-04	3.70E-03	1.85E-04
95-ZR	1.42E-02	7.08E-04	3.25E-06	1.63E-07			2.01E-02	1.01E-03	3.83E-04	2.49E-04
94-NB										
99-TC	<7.1E-05		<5.7E-09		<8.8E-04		<6.1E-04		<1.8E-04	
106-RU	<1.0E-03		<1.7E-07		<6.6E-03		<4.6E-03		<2.0E-03	
110M-AG	1.86E-03	2.98E-04	1.09E-06	7.64E-08	5.10E-03	8.16E-04	7.52E-03	1.28E-03	<1.7E-04	
125-SB	6.60E-03	5.28E-04	4.25E-07	5.94E-08	1.42E-02	5.82E-03	8.91E-03	5.08E-03	<2.6E-03	
129-I	<8.9E-06		<2.9E-09		<1.4E-05		<3.8E-05		<2.9E-05	
134-CS	7.96E-02	3.98E-03	3.85E-07	1.93E-08	2.18E-01	1.09E-02	6.41E-01	3.20E-02	2.10E-01	1.05E-02
135-CS										
137-CS	1.26E-01	6.30E-03	<2.2E-08		3.48E-01	1.74E-02	1.05E+00	5.25E-02	5.10E-01	2.55E-02
141-GE	6.60E-04	9.90E-05	<3.2E-08		<1.8E-05		<3.2E-04		<1.4E-04	
144-CE	1.19E-02	5.95E-04	3.02E-06	2.11E-07	1.73E-03	2.77E-04	2.30E-02	2.53E-03	4.19E-03	4.19E-04
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	1.71E-05	8.57E-07	3.08E-09	2.15E-10	8.95E-06	8.05E-07	4.51E-04	2.70E-05	6.59E-05	3.95E-06
239-PU	2.61E-05	1.30E-06	3.32E-09	1.99E-10	4.45E-06	5.78E-07	6.26E-04	3.13E-05	7.00E-05	4.20E-06
241-PU	2.62E-03	2.36E-04	2.51E-07	5.27E-08	7.93E-04	1.11E-04	5.65E-02	2.83E-03	6.69E-03	1.00E-03
241-AM	1.02E-05	5.12E-07	8.11E-09	4.06E-10	5.00E-06	5.50E-07	4.66E-04	2.33E-05	5.41E-05	2.71E-06
242-CM	6.99E-05	3.50E-06	2.60E-08	1.30E-09	1.26E-05	1.14E-06	2.90E-04	1.74E-05	3.10E-05	1.86E-06
244-CM	9.97E-06	4.99E-07	1.37E-08	6.85E-10	9.11E-06	7.29E-07	4.66E-04	2.33E-05	1.82E-05	1.27E-06

# RADIOACTIVE WASTE SAMPLE LISTING

## S A I D A T A B A S E

PLANT NAME:				BRUNSWICK
UNIT NUMBER:	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	SEACOAST
START-UP DATE:	1-DEC-70	1-DEC-70	1-DEC-70	1-MAR-77
SAMPLE TYPE:	RESIN	FILTER CARTRIDGE	EVAPORATOR BOTTOMS	FILTER SLUDGE
SAMPLE SUB-TYPE:	SECONDARY	RADWASTE	SOLID	PRIMARY
SAMPLING DATE:	07-NOV-83	07-NOV-83	08-NOV-83	17-NOV-83
SAMPLE NUMBER:	10531	10532	10533	10534

Concentrations in microcuries/gram

		<u>Value</u>	<u>Unc.</u>		<u>Value</u>	<u>Unc.</u>		<u>Value</u>	<u>Unc.</u>		<u>Value</u>	<u>Unc.</u>
A-193	3-H	2.33E-02	1.17E-03	1.72E-03	2.24E-04	1.91E-03	1.72E-04	1.16E-03	2.09E-04	1.48E-03	7.41E-05	
	14-C	8.42E-03	4.21E-04	2.05E-02	1.02E-03	9.50E-03	4.75E-04	5.98E-03	2.99E-04	<3.4E-05		
	54-MN	4.55E-01	5.00E-02	3.90E-01	2.34E-02	5.23E-01	3.66E-02	9.66E-03	1.45E-05	1.09E+00	5.44E-02	
	55-FE									3.51E+00	1.76E-01	
	58-CD	3.56E+00	1.78E-01	2.38E+00	1.19E-01	4.56E+00	2.28E-01	2.66E-04	2.13E-05	4.59E-01	3.21E-02	
	60-CO	9.36E+00	4.68E-01	7.20E+00	3.60E-01	1.11E+01	5.56E-01	1.03E-03	1.03E-04	2.30E+00	1.15E-01	
	59-NI									<1.4E-03		
	63-NI	5.96E+00	2.98E-01	1.29E+00	6.46E-02	1.67E+00	8.33E-02	7.27E-04	3.85E-04	2.70E-02	1.35E-03	
	90-SR	6.11E-02	3.05E-03	3.24E-02	1.62E-03	3.25E-02	1.63E-03	<6.5E-05		1.28E-03	6.37E-05	
	95-ZR			1.27E+00	1.65E-01	1.64E+00	8.20E-02	4.43E-05	2.21E-06			
	94-NB									<3.1E-05		
	99-TC	<1.2E-03		<3.4E-05		<2.8E-05		<3.6E-05		<7.1E-06		
	106-RU			<7.5E-02		<1.2E-01		<3.1E-05		<6.9E-02		
	110M-AG	<2.6E-02		1.74E-01	1.92E-02	2.52E-01	3.28E-02	<6.1E-06				
	125-SB	<2.0E-01		1.67E-01	4.01E-02	1.86E-01	4.66E-02	<2.1E-05		<4.5E-02		
	129-I	<1.9E-05		<6.1E-05		<3.5E-05		<2.9E-05		<1.0E-05		
	134-CS	1.26E+01	6.29E-01	1.80E-01	9.01E-03	1.88E-01	2.45E-02	<3.2E-06		<2.4E-02		
	135-CS											
	137-CS	1.96E+01	9.82E-01	3.55E-01	2.48E-02	<1.3E-02				<7.6E-03		
	141-CE	3.51E-04	7.72E-05	3.53E-02	2.26E-02	3.81E-02	1.90E-03	<4.2E-06		8.30E-03	1.16E-03	
144-CE	2.99E-02	1.49E-03	8.01E-01	8.01E-02	7.97E-01	3.99E-02	<9.9E-06		<2.5E-03			
152-EU												
154-EU												
155-EU												
235-U												
238-U												
238-PU	2.23E-04	1.12E-05	3.57E-03	1.79E-04	3.36E-03	1.68E-04	1.04E-05	1.56E-06	2.84E-06	7.95E-07		
239-PU	2.22E-05	1.78E-06	4.74E-03	2.37E-04	4.94E-03	2.47E-04	6.41E-06	1.28E-06	3.70E-06	8.87E-07		
241-PU	1.43E-02	7.15E-03	5.41E-01	2.70E-02	5.31E-01	2.66E-02	8.45E-04	2.45E-04	3.90E-04	7.80E-05		
241-AM	1.32E-04	6.58E-06	2.35E-03	3.53E-04	1.79E-03	8.96E-05	5.35E-06	7.49E-07	<8.4E-07			
242-CM	5.91E-04	3.46E-05	1.18E-02	1.77E-03	5.74E-03	2.87E-04	9.80E-06	1.18E-06	1.34E-05	3.62E-06		
244-CM	2.46E-04	1.23E-05	2.18E-03	3.28E-04	1.69E-03	8.45E-05	2.89E-06	5.49E-07	<1.4E-06			

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	SEACOAST	SEACOAST	SEACOAST	SEACOAST	SEACOAST
START-UP DATE:	1-MAR-77	1-MAR-77	1-MAR-77	1-MAR-77	1-MAR-77
SAMPLE TYPE:	RESIN	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLE SUB-TYPE:	SECONDARY	LIQUID	LIQUID	LIQUID	SOLID
SAMPLING DATE:	18-NOV-83	16-NOV-83	17-NOV-83	16-NOV-83	17-NOV-83
SAMPLE NUMBER:	10541	10542	10543	10544	10545

Concentrations in microcuries/gram

A-194

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	1.30E-03	1.17E-04	1.89E-03	9.43E-05	1.15E-07	3.11E-08	2.82E-03	2.54E-04	5.99E-08	2.22E-08
14-C	5.19E-03	2.58E-04	<4.6E-05		<6.2E-08		<2.4E-05		<2.9E-08	
54-MN	1.12E-02	5.60E-04	9.27E-04	4.64E-05	1.95E-04	9.77E-06	8.46E-04	4.23E-05	3.48E-05	1.74E-06
55-FE	8.40E-02	5.88E-03	<1.8E-05		1.73E-03	1.39E-04	2.44E-05	9.26E-06	1.84E-04	1.29E-05
58-CO	8.03E-03	5.62E-04	9.56E-04	4.78E-05	3.83E-05	1.91E-06	9.39E-04	4.69E-05	1.10E-05	5.51E-07
60-CO	6.98E-02	3.49E-03	1.15E-03	5.76E-05	1.77E-04	8.85E-06	3.32E-03	1.66E-04	4.23E-05	2.12E-06
59-NI	<5.1E-04		<2.6E-05		<4.8E-07		<2.7E-05		<4.7E-07	
63-NI	8.73E-03	4.36E-04	2.76E-05	4.14E-06	4.53E-06	2.27E-07	3.89E-05	4.28E-06	8.09E-07	8.09E-08
90-SR	8.74E-05	2.19E-05	1.76E-06	4.76E-07	5.49E-08	1.21E-08	1.51E-06	3.31E-07	2.10E-08	1.28E-08
95-ZR					9.68E-07	5.81E-07			7.26E-07	3.63E-08
94-NB	<5.7E-05		<1.8E-06		<1.1E-10		<3.4E-07		<2.2E-09	
99-TC	<1.4E-05		<5.1E-07		<4.9E-07		<5.1E-07		<1.3E-08	
106-RU	<9.5E-04		<2.2E-05		<7.8E-07		<1.7E-05		<4.0E-07	
110M-AG			5.51E-05	3.31E-06	8.86E-06	4.43E-07	1.45E-05	9.58E-06	<6.6E-08	
125-SB	<6.9E-04		<1.4E-05		<4.7E-07		<1.1E-05		<2.3E-07	
129-I	1.98E-05	1.28E-05	<2.6E-07		1.32E-08	4.21E-09	<4.1E-07		5.98E-09	1.97E-09
134-CS	1.41E-03	7.07E-05	<2.2E-06		<7.9E-08		<7.2E-06		<4.0E-08	
135-CS										
137-CS	4.62E-03	3.69E-04	<2.6E-06		<9.3E-08		1.09E-05	5.67E-06	<4.0E-08	
141-CE	<4.9E-05		<2.1E-07		<1.5E-06		<1.3E-06		4.67E-07	7.00E-08
144-CE	9.10E-04	5.82E-04	<2.0E-07		<2.1E-07		<1.1E-06		2.67E-07	6.40E-08
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	3.11E-06	4.04E-07	1.81E-08	6.16E-09	6.26E-10	1.63E-10	7.49E-08	1.65E-08	1.05E-10	2.52E-11
239-PU	2.11E-06	3.38E-07	<6.7E-09		2.09E-10	9.18E-11	2.15E-08	8.83E-09	7.53E-11	2.11E-11
241-PU	2.44E-04	1.03E-04	4.99E-06	2.40E-06	9.43E-08	2.83E-08	4.33E-06	2.95E-06	9.45E-08	3.59E-08
241-AM	9.03E-07	1.90E-07	2.68E-08	7.25E-09	2.37E-10	8.76E-11	1.31E-08	5.89E-09	2.39E-10	8.35E-11
242-CM	4.73E-06	5.21E-07	<2.1E-09		<3.5E-11		9.49E-09	5.98E-09	1.52E-08	7.58E-10
244-CM	3.55E-07	1.21E-07	8.26E-09	4.13E-09	<1.2E-10		<5.5E-09		4.00E-10	1.08E-10



# RADIOACTIVE WASTE SAMPLE LISTING

S A I   D A T A B A S E

PLANT NAME:	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK	BRUNSWICK
UNIT NUMBER:	1	1	2	1	1
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	SEACOAST	SEACOAST	SEACOAST	SEACOAST	SEACOAST
START-UP DATE:	1-MAR-77	1-MAR-77	1-NOV-75	1-MAR-77	1-MAR-77
SAMPLE TYPE:	DRY ACTIVE WASTE	DRY ACTIVE WASTE	DRY ACTIVE WASTE	FILTER SLUDGE	FILTER
SAMPLE SUB-TYPE:	SMEAR	SMEAR	SMEAR	PRIMARY	AIR SAMPLE
SAMPLING DATE:	16-NOV-83	16-NOV-83	16-NOV-83	17-NOV-83	18-NOV-83
SAMPLE NUMBER:	10546	10547	10548	10549	10550

Concentrations in microcuries/gram

A-195

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	3.65E-04	1.61E-04	5.39E-04	1.72E-04	7.00E-03	1.54E-03	1.41E-03	7.06E-05	5.65E-04	1.36E-04
14-C	5.48E-04	1.70E-04	1.52E-03	7.62E-05	4.31E-04	1.73E-04	2.52E-05	5.04E-06	4.97E-05	1.44E-05
54-MN			1.13E-02	5.65E-04	7.50E-04	1.27E-04	5.94E-01	2.97E-02	3.17E-04	8.23E-05
55-FE	3.58E-02	4.66E-03	1.82E-01	3.45E-02	1.14E-02	1.59E-03	2.67E+00	2.40E-01	<1.5E-03	
58-CO			9.56E-04	2.87E-04	1.98E-03	1.78E-04	2.79E-01	1.39E-02	<3.4E-05	
60-CO	2.18E-02	1.09E-03	5.69E-02	2.85E-03	6.45E-03	3.22E-04	1.19E+00	5.96E-02	7.61E-04	3.81E-05
59-NI	<2.8E-03		<9.0E-04		<7.7E-04		<2.0E-03		<7.7E-04	
63-NI	6.04E-03	5.44E-04	4.15E-03	3.74E-04	5.28E-04	3.27E-04	1.72E-02	6.58E-04	<7.9E-04	
90-SR	2.62E-04	7.34E-05	<5.5E-05		1.49E-04	6.70E-05	1.63E-03	8.14E-05	6.86E-05	3.36E-05
95-ZR										
94-NB	<6.9E-06		<1.0E-04		<6.9E-05		<6.9E-05		<6.9E-05	
99-TC	<3.8E-05		<3.9E-05		<4.3E-05		<1.2E-05		<4.3E-05	
106-RU			<4.9E-04		<2.7E-04		<2.2E-02		<1.8E-04	
110M-AG			<1.0E-04		<6.1E-05				<3.6E-05	
125-SB			<3.3E-04		<2.0E-04		<1.5E-02		<1.5E-04	
129-I	<4.9E-05		<6.6E-05		1.75E-04	5.42E-05	1.90E-05	7.41E-06	<6.4E-05	
134-CS			3.79E-03	1.90E-04	<3.0E-05		<2.1E-03		2.72E-04	1.90E-05
135-CS										
137-CS			8.92E-03	4.46E-04	<3.3E-05		1.57E-02	6.43E-03	7.14E-04	9.28E-05
141-CE	<2.6E-04		<1.2E-03		<4.9E-02		3.12E-02	1.19E-02	<1.8E-03	
144-CE	<2.4E-04		<1.0E-03		<4.7E-02		<2.9E-03		1.01E-02	5.56E-03
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	3.60E-06	1.48E-06	1.75E-06	4.03E-07	1.25E-05	1.38E-06	2.95E-06	4.13E-07	1.56E-06	1.03E-06
239-PU	<1.6E-06		5.91E-07	2.56E-07	6.19E-06	9.90E-07	3.59E-06	4.67E-07	5.19E-06	1.87E-06
241-PU	<3.3E-06		5.51E-04	1.65E-04	1.58E-03	2.85E-04	4.73E-04	8.04E-05	5.72E-04	1.66E-04
241-AM	5.16E-07	3.40E-07	<1.6E-06		<3.7E-06		<9.6E-06		2.09E-06	9.83E-07
242-CM	<7.5E-07		<1.0E-06		<3.9E-06		7.38E-05	1.77E-05	<1.5E-06	
244-CM	5.16E-07	3.40E-07	<1.6E-06		<7.9E-06		<2.3E-06		1.16E-06	7.32E-07

# RADIOACTIVE WASTE SAMPLE LISTING

SAI DATABASE

PLANT NAME:	1	1	ZION	ZION	ZION
UNIT NUMBER:	1	1	1	1	2
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-APR-77	1-APR-77	1-DEC-73	1-DEC-73	1-SEP-74
SAMPLE TYPE:	RESIN	DRY ACTIVE WASTE	REACTOR COOLANT	REACTOR COOLANT	REACTOR COOLANT
SAMPLE SUB-TYPE:	SECONDARY	SMEAR	TOTAL	TOTAL	TOTAL
SAMPLING DATE:	11-OCT-83	10-NOV-83	02-NOV-83	02-NOV-83	01-NOV-83
SAMPLE NUMBER:	10551	10552	10557	10559	10561

Concentrations in microcuries/gram

A-196

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	4.28E-02	2.14E-03	<1.1E-03		2.60E-03	1.30E-04	1.33E-05	2.39E-06	1.25E-05	2.38E-06
14-C	<9.0E-02		2.17E-04	1.11E-04	4.80E-06	2.23E-07	9.46E-09	1.70E-09	3.08E-07	1.10E-07
54-MN	9.45E-03	6.62E-04	7.71E-03	3.85E-04	4.54E-05	3.26E-06	<9.0E-09		3.09E-09	1.05E-09
55-FE	1.74E-01	1.56E-02	1.63E-01	8.16E-03	<9.9E-06		2.08E-05	6.04E-06	1.84E-05	4.22E-06
58-CO	1.64E-01	8.19E-03	8.52E-02	4.26E-03	1.38E-03	5.96E-05	2.10E-08	2.94E-09	3.93E-09	1.81E-09
60-CD	1.98E-01	9.88E-03	1.54E-01	7.70E-03	1.52E-03	6.69E-05	4.37E-07	2.12E-08	3.74E-07	2.92E-08
59-NI	<4.6E-04		<5.1E-03		<3.8E-04		<3.8E-06		<3.8E-06	
63-NI	1.51E-02	7.53E-04	5.68E-02	2.84E-03	3.08E-04	1.54E-05	1.26E-05	2.02E-06	<2.9E-06	
90-SR	4.28E-04	2.14E-05	1.25E-04	6.63E-05	6.32E-06	3.16E-07	<1.9E-07		<2.0E-07	
95-ZR	3.58E-03	1.97E-03	1.59E-03	8.58E-04	9.22E-06	2.31E-06				
94-NB	<7.8E-05		<2.2E-04							
99-TC	<1.1E-04		<1.5E-04		<1.0E-07		<1.3E-07		<1.3E-07	
106-RU	<1.8E-03		<1.1E-03		<9.6E-06		<9.3E-08		<3.3E-08	
110M-AG	1.04E-02	5.19E-04	7.05E-03	3.52E-04	3.07E-06	3.69E-07	<1.3E-08		<5.2E-09	
125-SB	4.44E-03	1.15E-03	4.10E-03	5.74E-04	8.78E-05	4.21E-06	<6.2E-08		<3.0E-08	
129-I	<7.7E-06		<3.7E-04		<4.9E-08		<2.9E-08		<6.2E-08	
134-CS	6.74E-03	8.77E-04	3.48E-02	1.74E-03	2.64E-04	2.91E-05	3.42E-08	1.71E-09	5.69E-08	1.48E-08
135-CS										
137-CS	7.13E-03	6.41E-04	5.70E-02	2.85E-03	2.20E-04	1.10E-05	8.26E-08	2.91E-08	2.69E-07	1.85E-08
141-CE	<3.9E-04		<1.1E-04		3.78E-06	1.89E-07	<4.0E-08		<1.8E-08	
144-CE	<5.3E-04		<3.3E-04		1.50E-05	7.50E-07	<5.3E-08		<2.3E-08	
152-EU										
154-EU										
155-EU										
235-U	<2.4E-06		<1.2E-06							
238-U	<2.1E-06		<5.3E-07							
238-PU	8.69E-06	4.34E-07	1.26E-05	1.89E-06	3.89E-08	1.95E-09	1.43E-10	2.52E-11	6.53E-10	1.04E-10
239-PU	3.77E-06	2.26E-07	5.16E-06	1.24E-06	1.87E-08	9.34E-10	8.16E-11	1.96E-11	3.45E-10	7.60E-11
241-PU	6.76E-04	7.44E-05	1.39E-03	2.78E-04	3.22E-06	3.22E-07	2.88E-08	1.24E-08	7.34E-08	2.06E-08
241-AM	1.69E-06	1.18E-07	<1.2E-05		9.99E-09	5.00E-10	4.60E-11	1.20E-11	1.12E-10	3.57E-11
242-CM	2.76E-05	1.38E-06	2.83E-05	9.62E-06	3.66E-07	1.83E-08	9.03E-11	1.99E-11	3.18E-10	7.32E-11
244-CM	3.62E-06	1.81E-07	<8.7E-06		4.34E-08	2.17E-09	8.58E-11	1.63E-11	7.54E-11	3.01E-11

# RADIOACTIVE WASTE SAMPLE LISTING

S A I   D A T A B A S E

PLANT NAME:	ZION	ZION	ZION	ZION	ZION
UNIT NUMBER:	1	1	2	2	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-DEC-73	1-DEC-73	1-SEP-74	1-SEP-74	1-DEC-73
SAMPLE TYPE:	FUEL POOL	FUEL POOL	REACTOR COOLANT	REACTOR COOLANT	RESIN
SAMPLE SUB-TYPE:	LIQUID	SOLID	TOTAL	TOTAL	PRIMARY
SAMPLING DATE:	05-NOV-83	05-NOV-83	01-NOV-83	31-OCT-83	12-NOV-83
SAMPLE NUMBER:	10563	10564	10565	10567	10569

Concentrations in microcuries/gram

A-197

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	2.98E-03	1.49E-04			1.91E-01	9.54E-03	1.95E-01	9.76E-03	2.00E-03	3.60E-04
14-C	2.85E-07	1.51E-07	1.41E-07	7.06E-09	9.80E-05	4.89E-06	6.43E-05	3.19E-06	2.98E-02	1.49E-03
54-MN	<1.8E-05		1.06E-06	1.49E-07	2.78E-09	7.77E-10	6.07E-06	4.26E-07	4.53E+01	2.27E+00
55-FE	2.07E-05	5.39E-06			<4.3E-06		<8.1E-06		9.48E+01	4.74E+00
58-CO	3.03E-03	1.51E-04	4.23E-05	2.11E-06	1.12E-07	5.60E-09	8.62E-04	4.13E-05	<1.4E-01	
60-CO	1.22E-02	6.11E-04	4.02E-05	2.01E-06	6.92E-08	3.46E-09	1.14E-04	5.33E-06	1.67E+02	8.35E+00
59-NI	4.79E-05	1.24E-05			<3.8E-06		<3.8E-06		4.45E-01	2.25E-02
63-NI	3.39E-03	1.69E-04			7.81E-06	1.95E-06	<6.1E-06		3.57E+01	1.79E+00
90-SR	1.04E-05	5.22E-07			<1.7E-07		<2.3E-07		4.18E-02	2.09E-03
95-ZR			2.94E-06	6.77E-07	6.64E-09	1.93E-09	1.09E-05	5.45E-07		
94-NB										
99-TC	<1.3E-07				<8.8E-08		<1.5E-06		<6.3E-04	
106-RU	<1.3E-04		<4.8E-07		<4.1E-07		<1.0E-06		<4.1E+00	
110M-AG	<2.9E-05		2.20E-06	1.10E-07	6.51E-09	1.56E-09	1.65E-05	1.12E-06	<3.7E-01	
125-SB	<9.2E-05		<3.4E-07		<5.1E-07		4.61E-06	2.03E-06	<2.2E+00	
129-I	<5.3E-08				<5.0E-08		<4.1E-08		<6.2E-05	
134-CS	3.02E-04	3.63E-05	4.57E-06	2.28E-07	5.03E-05	2.51E-06	4.94E-05	2.47E-06	4.33E+01	2.17E+00
135-CS										
137-CS	3.06E-04	4.28E-05	5.32E-06	2.66E-07	1.07E-04	5.36E-06	1.07E-04	5.34E-06	8.00E+01	4.00E+00
141-CE	<4.5E-05		2.80E-07	6.72E-08	<3.0E-07		8.15E-08	4.81E-08	<3.7E-01	
144-CE	<5.5E-05		8.70E-07	1.13E-07	<2.8E-07		9.37E-08	3.00E-08	<4.9E-04	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU			3.55E-09	3.19E-10	4.21E-10	6.31E-11	1.46E-09	1.90E-10	9.99E-05	5.00E-06
239-PU			1.69E-09	2.03E-10	9.09E-11	2.91E-11	6.11E-10	1.22E-10	3.52E-05	2.82E-06
241-PU			2.97E-07	4.75E-08	2.38E-07	3.81E-08	4.66E-08	1.91E-08	4.90E-03	8.33E-04
241-AM			7.70E-10	9.24E-11	1.43E-10	3.00E-11	6.28E-10	6.91E-11	2.00E-05	8.40E-06
242-CM			3.33E-08	1.66E-09	3.89E-11	1.99E-11	4.63E-09	2.31E-10	9.20E-05	4.60E-05
244-CM			4.16E-09	2.08E-10	3.61E-11	1.55E-11	2.22E-09	1.33E-10	3.40E-05	1.09E-05

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	ZION	ZION	ZION	ZION	ZION
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-DEC-73	1-DEC-73	1-DEC-73	1-DEC-73	1-DEC-73
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	SECONDARY	PRIMARY
SAMPLING DATE:	09-JAN-82	16-FEB-83	15-SEP-83	17-NOV-83	02-FEB-83
SAMPLE NUMBER:	10570	10571	10572	10573	10574

Concentrations in microcuries/gram

A-198

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	2.40E-03	3.12E-04	5.09E-04	1.02E-04	1.43E-02	7.15E-04	7.50E-04	1.43E-04	4.32E-04	8.21E-05
14-C	1.93E-01	9.65E-03	1.58E-02	7.90E-04	2.89E-03	1.45E-04	4.34E-04	2.17E-05	3.37E-04	1.68E-05
54-MN	1.50E+00	7.20E-01	<3.2E-01		<7.5E-02		1.60E-04	3.36E-05	2.17E-02	1.09E-03
55-FE	8.07E+00	4.04E-01	2.79E+00	3.91E-01	1.96E-01	9.80E-03	2.86E-03	2.57E-04	6.82E-02	6.82E-03
58-CO	<2.0E+02		<2.9E+00		<2.2E+00		9.78E-03	4.89E-04	2.02E-02	9.68E-03
60-CO	4.06E+01	2.03E+00	1.85E+02	9.25E+00	1.48E+01	7.40E-01	2.09E-03	1.05E-04	1.35E-01	6.74E-03
59-NI	4.41E-01	2.21E-02	5.63E-01	2.82E-02	6.51E-02	5.21E-03	<5.1E-04		<8.9E-04	
63-NI	4.44E+01	2.22E+00	5.59E+01	2.79E+00	9.18E+00	4.59E-01	1.74E-03	1.04E-04	1.69E-02	8.46E-04
90-SR	8.78E-02	4.39E-03	1.08E-01	5.41E-03	1.16E-02	5.80E-04	<1.3E-05		<3.2E-05	
95-ZR			6.47E-02	5.16E-02						
94-NB			6.28E-04	7.54E-05						
99-TC	<8.9E-04		<3.4E-04		<2.4E-04		<2.4E-06		<6.7E-05	
106-RU	<1.6E+00		<2.2E+00		<5.1E-01		<1.5E-04		<2.3E-03	
110M-AG	<5.4E-01		<5.8E-01		<1.5E-01		4.42E-04	3.07E-05	5.52E-03	2.76E-04
125-SB	<6.9E-01		<1.1E+00		<2.4E-01		<1.1E-04		<1.6E-03	
129-I	<1.4E-05		<8.9E-05		<1.4E-05		<1.9E-06		<7.7E-06	
134-CS	1.90E+01	9.50E-01	1.06E+00	4.57E-01	1.73E+00	8.65E-02	1.43E-03	7.15E-05	3.53E-02	1.76E-03
135-CS										
137-CS	2.59E+01	1.30E+00	2.54E+00	4.58E-01	3.44E+00	1.72E-01	2.13E-03	1.07E-04	1.04E-01	5.19E-03
141-CE	<2.6E+02		<8.6E-02		<4.3E+00		<8.1E-05		<2.7E-02	
144-CE	<4.9E-02		3.12E-02	2.81E-03	9.50E-03	2.57E-03	<6.3E-05		<1.1E-04	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	9.10E-04	4.55E-05	1.03E-03	5.15E-05	2.96E-04	1.78E-05	5.60E-07	1.51E-07	1.60E-06	3.53E-07
239-PU	8.83E-04	4.42E-05	3.05E-04	1.52E-05	9.47E-05	8.52E-06	7.90E-07	1.82E-07	2.05E-06	3.89E-07
241-PU	8.90E-02	9.79E-03	3.67E-02	1.84E-03	7.27E-03	3.64E-04	3.00E-04	6.90E-05	1.33E-04	4.25E-05
241-AM	2.95E-04	1.48E-05	2.74E-04	1.37E-05	5.40E-05	5.94E-06	3.70E-07	1.44E-07	9.64E-07	2.31E-07
242-CM	8.80E-04	4.40E-05	6.87E-04	3.43E-05	2.40E-04	3.84E-05	<1.3E-07		1.35E-06	6.09E-07
244-CM	1.69E-04	8.45E-06	8.78E-04	4.39E-05	1.71E-04	1.03E-05	1.50E-07	9.00E-08	1.49E-06	2.83E-07

RADIOACTIVE WASTE SAMPLE LISTING  
SAI DATABASE

PLANT NAME:	ZION	ZION	ZION	ZION	TROJAN
UNIT NUMBER:	1	1	2	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-DEC-73	1-DEC-73	1-SEP-74	1-DEC-73	1-MAY-76
SAMPLE TYPE:	RESIN	RESIN	RESIN	DRY ACTIVE WASTE	DRY ACTIVE WASTE
SAMPLE SUB-TYPE:	RADWASTE	PRIMARY	PRIMARY	SMEAR	SMEAR
SAMPLING DATE:	12-FEB-83	13-JUL-83	16-NOV-83	28-NOV-83	22-DEC-83
SAMPLE NUMBER:	10575	10576	10577	10578	10604

Concentrations in microcuries/gram

A-199

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	1.40E-03	1.68E-04	3.50E-04	9.45E-05	4.57E-03	2.29E-04			3.34E-04	2.10E-04
14-C	1.13E-03	5.65E-05	3.90E-03	1.95E-04	3.91E-03	1.96E-04	1.17E-02	5.83E-04	3.60E-02	1.80E-03
54-MN	1.30E-02	2.99E-03	<5.9E-03		4.20E-03	6.30E-04	7.85E-02	3.92E-03	1.21E-01	2.43E-02
55-FE	2.43E-01	1.22E-02	9.15E-02	4.58E-03	3.36E-02	2.02E-03	1.68E+00	2.02E-01	1.34E+01	6.71E-01
58-CO	6.80E-02	3.88E-02	<2.7E-01		2.33E-01	1.17E-02	2.37E-02	2.13E-03	<6.4E-02	
60-CO	2.73E-01	1.37E-02	2.68E+00	1.34E-01	6.93E-02	3.47E-03	3.88E-01	1.94E-02	4.72E+00	2.36E-01
59-NI	<1.3E-03		3.80E-02	1.90E-03	<1.7E-03		<1.4E-02			
63-NI	7.97E-02	3.99E-03	2.43E+00	1.22E-01	3.04E-02	1.52E-03	4.65E-02	2.79E-03	2.28E+00	1.14E-01
90-SR	3.60E-04	3.60E-05	8.83E-03	4.42E-04	3.00E-04	3.60E-05	<2.9E-04		8.62E-03	4.31E-04
95-ZR										
94-NB										
99-TC	<1.7E-05		<1.3E-04		<4.9E-06		<6.4E-05		<5.9E-05	
106-RU	<8.8E-03		<3.9E-02		<2.4E-03		<3.8E-03		<6.1E-02	
110M-AG	<1.7E-03		<1.2E-02		<3.6E-04		<8.4E-04		<1.3E-02	
125-SB	<7.0E-03		<2.1E-02		8.77E-02	4.39E-03	<2.8E-03		<9.5E-02	
129-I	<6.3E-06		<1.7E-05		<7.1E-06		<1.9E-04		3.14E-04	5.02E-05
134-CS	2.64E-01	1.32E-02	1.79E-01	8.95E-03	8.40E-03	1.01E-03	2.39E-02	1.44E-03	<9.4E-03	
135-CS										
137-CS	4.83E-01	2.42E-02	1.33E+00	6.65E-02	9.98E-03	6.99E-04	1.16E-01	5.79E-03	<6.8E-03	
141-CE	<1.4E-02		<2.6E+02		<2.9E-04		<7.6E-04		<7.4E-03	
144-CE	8.30E-04	2.32E-04	<6.3E-02		<1.9E-04		<7.8E-04		2.24E-01	4.93E-02
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	9.51E-06	6.66E-07	2.30E-05	1.15E-06	5.37E-06	4.83E-07	4.03E-05	5.23E-06	6.10E-04	3.05E-05
239-PU	5.30E-06	5.30E-07	6.41E-05	3.21E-06	3.40E-06	4.08E-07	1.96E-05	3.53E-06	3.14E-03	1.57E-04
241-PU	1.00E-03	2.10E-04	3.70E-03	7.77E-04	5.80E-04	1.28E-04			2.51E-01	5.27E-02
241-AM	4.99E-06	3.49E-07	2.62E-05	1.31E-06	2.00E-06	5.20E-07	2.55E-05	3.57E-06	6.46E-04	3.23E-05
242-CM	1.62E-05	1.30E-06	<5.5E-07		3.70E-06	8.51E-07	2.86E-05	4.29E-06	3.77E-04	1.89E-05
244-CM	1.45E-05	7.25E-07	5.50E-07	1.10E-07	3.20E-06	6.40E-07	2.33E-05	3.26E-06	1.58E-04	7.90E-06

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	TROJAN	ZION	LASALLE	LASALLE	LASALLE
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-MAY-76	1-DEC-73	1-OCT-82	1-OCT-82	1-OCT-82
SAMPLE TYPE:	DRY ACTIVE WASTE	OIL	REACTOR COOLANT	EVAPORATOR BOTTOMS	DRY ACTIVE WASTE
SAMPLE SUB-TYPE:	SMEAR	LIGUID	TOTAL	SOLID	SMEAR
SAMPLING DATE:	22-DEC-83	20-DEC-83	10-NOV-83	08-NOV-83	02-JAN-84
SAMPLE NUMBER:	10605	10596	10599	10601	10602

Concentrations in microcuries/gram

A-200

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<2. 2E-04		<3. 9E-05		1. 38E-04	6. 91E-06	2. 14E-04	1. 71E-05		
14-C	1. 90E-03	9. 51E-05	2. 18E-06	6. 11E-07	4. 79E-04	2. 03E-05	5. 11E-05	2. 56E-06	1. 94E-03	9. 72E-05
54-MN	4. 84E-03	5. 81E-04	3. 60E-06	2. 16E-07	1. 76E-03	8. 39E-05	3. 98E-01	1. 99E-02	9. 39E-01	4. 69E-02
55-FE	2. 86E-02	1. 43E-03	1. 10E-04	7. 72E-06	1. 19E-04	1. 07E-05	3. 89E-01	2. 34E-02	2. 59E+00	1. 29E-01
58-CD	<2. 4E-04		4. 42E-05	2. 21E-06	1. 80E-03	8. 84E-05	8. 69E-02	4. 35E-03	1. 06E-01	5. 28E-03
60-CO	1. 23E-01	6. 14E-03	1. 33E-04	6. 65E-06	9. 62E-04	4. 47E-05	1. 61E-01	8. 05E-03	5. 24E-01	2. 62E-02
59-NI			<4. 0E-06		<7. 6E-06		<2. 0E-04		<5. 5E-04	
63-NI	5. 64E-02	2. 82E-03	1. 93E-05	9. 67E-07	<1. 4E-05		1. 50E-03	7. 51E-05	6. 05E-03	3. 02E-04
90-SR	4. 96E-04	5. 45E-05	1. 11E-06	2. 44E-07	<2. 7E-07		1. 96E-05	6. 27E-06	1. 21E-04	6. 05E-05
95-ZR			7. 52E-06	3. 76E-07	2. 71E-06	1. 36E-06				
94-NB			<2. 0E-07				<4. 4E-06			
99-TC	<3. 4E-05		<1. 9E-07		<2. 1E-07		<7. 5E-07		<4. 3E-04	
106-RU	<1. 3E-03		<5. 3E-07		<2. 4E-05		<4. 2E-03		<4. 8E-03	
110M-AG	<3. 1E-04		1. 04E-06	2. 50E-07	<2. 8E-06		<6. 0E-02		<6. 1E-04	
125-SB	2. 11E-03	7. 60E-04	1. 25E-06	1. 75E-07	<1. 4E-05		<2. 6E-03		<2. 8E-03	
129-I	<3. 0E-05		<1. 5E-07		<1. 8E-07		<7. 8E-06		<1. 8E-03	
134-CS	<1. 2E-04		<5. 1E-08		<2. 2E-06		<4. 1E-04		<5. 1E-04	
135-CS										
137-CS	<9. 4E-04		<5. 4E-08		<2. 0E-06		<3. 4E-04		<4. 6E-04	
141-CE	<1. 2E-04		<1. 9E-06		<7. 8E-06		<6. 6E-05		<1. 0E-04	
144-CE	7. 18E-03	8. 62E-04	3. 54E-06	7. 79E-07	<7. 9E-06		<1. 9E-05		<1. 2E-04	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	1. 88E-05	1. 50E-06	5. 73E-08	5. 73E-09			1. 66E-06	4. 65E-07	1. 04E-05	1. 25E-06
239-PU	8. 26E-05	4. 13E-06	3. 88E-08	4. 65E-09			1. 19E-06	3. 92E-07	2. 79E-06	6. 41E-07
241-PU	3. 93E-03	5. 90E-04	1. 23E-06	6. 62E-07			1. 19E-04	4. 52E-05	8. 70E-04	2. 61E-04
241-AM	3. 69E-05	6. 28E-06	7. 38E-09	2. 80E-09	1. 40E-08	5. 31E-09	<3. 6E-07		1. 76E-06	4. 76E-07
242-CM	4. 47E-06	2. 46E-06	2. 57E-08	6. 16E-09			<1. 5E-07		3. 71E-06	8. 16E-07
244-CM	1. 21E-05	3. 52E-06	<2. 7E-09				<3. 9E-08		4. 66E-07	2. 47E-07

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	NUCLEAR ONE	NUCLEAR ONE	NUCLEAR ONE	NUCLEAR ONE	1
UNIT NUMBER:	1	2	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-DEC-74	1-MAR-80	1-DEC-74	1-DEC-74	1-DEC-70
SAMPLE TYPE:	RESIN	RESIN	DRY ACTIVE WASTE	FILTER CARTRIDGE	RESIN
SAMPLE SUB-TYPE:	RADWASTE	RADWASTE	SMEAR	PRIMARY	FUEL POOL
SAMPLING DATE:	25-JUL-83	03-NOV-83	01-MAR-84	01-MAR-84	18-MAR-83
SAMPLE NUMBER:	10681	10682	10683	10684	10331

Concentrations in microcuries/gram

A-201

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	2.91E-03	8.44E-04	1.11E-03	3.66E-04	5.09E-04	1.78E-04	2.72E-04	7.07E-05		
14-C	5.76E-03	2.88E-04	2.97E-03	1.49E-04	9.25E-05	2.50E-05	1.45E-03	7.24E-05		
54-MN	1.48E-01	2.22E-02	3.33E-03	1.33E-03	4.18E-05	6.69E-06	1.82E-02	2.00E-03	<2.2E-03	
55-FE	6.13E-01	4.29E-02	2.64E-02	1.98E-03	5.27E-03	6.85E-04	5.78E-01	4.05E-02		
58-CD	5.74E-01	1.09E-01	<9.5E-04		6.12E-04	3.06E-05	5.68E-02	2.84E-03	<1.0E-02	
60-CD	1.10E+00	6.60E-02	1.63E-01	3.91E-02	2.56E-04	1.28E-05	3.96E-01	1.98E-02	1.26E+00	6.32E-02
59-NI	1.92E-02	5.38E-03	<5.2E-03		<2.3E-03		<2.7E-03			
63-NI	1.30E+00	6.50E-02	2.30E-02	1.15E-03	6.55E-04	3.27E-05	3.64E-01	1.82E-02		
90-SR	2.35E-02	1.17E-03	<1.6E-04		3.67E-05	1.91E-05	4.45E-04	5.34E-05	2.88E-04	4.90E-05
95-ZR					2.40E-05	1.20E-06				
94-NB	<7.3E-04		<3.3E-04		<1.3E-04		<2.8E-04			
99-TC	<1.1E-03		<3.3E-04		<1.1E-04		<2.2E-04			
106-RU	<9.4E-02		<5.9E-03		<2.1E-06		<6.0E-03		<1.5E-02	
110M-AG	<1.1E-02		<5.9E-04		<2.8E-07		2.77E-03	1.61E-03	<3.8E-03	
125-SB	<1.0E-01		1.01E-02	6.06E-03	3.42E-05	1.50E-05	<6.6E-03		1.92E-02	9.21E-03
129-I	<6.1E-05		<2.8E-05		<3.6E-05		<2.5E-05			
134-CS	4.29E+00	2.14E-01	1.16E-01	5.80E-03	8.20E-05	4.10E-06	2.77E-01	1.38E-02	2.59E-01	1.30E-02
135-CS										
137-CS	1.33E+01	6.65E-01	2.89E-01	1.44E-02	2.85E-04	1.43E-05	8.17E-01	4.08E-02	3.95E-01	1.97E-02
141-CE	<1.7E-02		1.13E-02	6.33E-03	<3.9E-06		<4.9E-05		<6.5E-02	
144-CE	5.72E-03	2.12E-03	4.33E-03	1.52E-03	<1.0E-05		<1.6E-03		<5.2E-03	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	7.85E-05	7.06E-06	1.19E-04	5.97E-06	2.15E-06	4.09E-07	4.99E-05	2.49E-06	3.48E-05	2.44E-06
239-PU	4.07E-05	4.88E-06	1.02E-04	5.12E-06	1.59E-06	3.50E-07	4.15E-05	2.07E-06	9.23E-06	1.20E-06
241-PU	4.93E-03	9.37E-04	6.04E-03	1.09E-03	1.21E-03	2.43E-04	4.29E-03	4.72E-04	1.66E-03	2.99E-04
241-AM	2.93E-05	3.81E-06	1.11E-04	5.56E-06	1.23E-06	4.08E-07	2.60E-05	1.30E-06	1.59E-06	7.49E-07
242-CM	4.09E-05	7.77E-06	1.70E-05	2.89E-06	2.26E-06	5.89E-07	3.33E-05	1.67E-06	1.27E-05	3.56E-06
244-CM	2.79E-05	3.91E-06	5.76E-06	1.21E-06	<2.7E-07		2.21E-05	1.10E-06	6.19E-06	1.49E-06

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	1	1	1	1
UNIT NUMBER:	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-DEC-70	1-DEC-70	1-DEC-70	1-DEC-70
SAMPLE TYPE:	FUEL POOL	REACTOR COOLANT	REACTOR COOLANT	RESIN
SAMPLE SUB-TYPE:	SOLID	TOTAL	TOTAL	FUEL POOL
SAMPLING DATE:	18-MAR-83	18-APR-83	23-FEB-83	03-JUN-83
SAMPLE NUMBER:	10332	10333	10334	10338

Concentrations in microcuries/gram

A-202

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H										
14-C										
54-MN	2.67E-07	8.01E-08	<1.6E-06		<7.7E-07		<1.1E-03		<2.5E-07	
55-FE										
58-CO	2.50E-06	4.00E-07	<6.8E-06		<5.2E-06		1.11E+00	5.54E-02	3.85E-06	1.20E-06
60-CD	1.08E-05	5.40E-07	<8.5E-07		5.72E-06	7.42E-07	8.47E-01	4.24E-02	2.31E-06	3.22E-07
59-NI										
63-NI										
90-SR	<7.6E-09		1.36E-07	9.50E-09	2.50E-07	1.75E-08	1.18E-03	5.92E-05	5.52E-08	7.75E-09
95-ZR	1.73E-06	8.65E-07								
94-NB										
99-TC										
106-RU	<1.7E-07		<5.0E-05		<1.4E-05		<8.8E-03		<5.0E-06	
110M-AG	<4.2E-08		<2.3E-06		<1.2E-06		1.30E-02	6.52E-04	<3.5E-07	
125-SB	<9.5E-08		<5.2E-05		<1.4E-05		1.98E-02	5.95E-03	<5.8E-06	
129-I										
134-CS	6.97E-07	3.49E-08	5.10E-03	2.55E-04	3.65E-03	1.83E-04	2.89E-01	1.44E-02	1.62E-03	8.10E-05
135-CS										
137-CS	9.15E-07	5.49E-08	5.60E-03	2.80E-04	5.35E-03	2.68E-04	3.31E-01	1.66E-02	1.99E-03	9.95E-05
141-CE	<6.9E-07		<7.0E-07		<1.3E-04		<2.3E-03		<8.8E-08	
144-CE	1.36E-06	8.16E-07	2.22E-07	1.67E-07	<6.5E-06		1.86E-03	1.00E-03	<3.2E-08	
152-EU										
154-EU										
155-EU										
233-U										
238-U										
238-PU	2.20E-09	2.64E-10	1.01E-09	1.61E-10	1.65E-09	2.98E-10	2.00E-05	1.80E-06	4.18E-10	7.50E-11
239-PU	1.80E-09	2.52E-10	2.82E-10	8.48E-11	3.22E-09	4.20E-10	1.91E-05	1.72E-06	4.08E-10	7.32E-11
241-PU	2.34E-07	4.21E-08	1.31E-06	3.92E-07	7.45E-06	1.26E-06	9.42E-03	4.71E-04	5.25E-07	3.68E-08
241-AM	1.60E-08	1.60E-09	6.15E-10	1.17E-10	2.85E-10	1.88E-10	4.23E-06	1.52E-06	5.20E-10	2.08E-10
242-CM	7.70E-08	6.16E-09	2.00E-10	1.06E-10	3.45E-09	1.17E-09	9.77E-06	3.42E-06	1.19E-09	4.28E-10
244-CM	3.75E-08	2.62E-09	2.49E-10	7.45E-11	2.09E-09	5.02E-10	4.66E-06	1.58E-06	2.82E-10	1.56E-10



# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	PILGRIM	PILGRIM	PILGRIM
UNIT NUMBER:	1	1	1
PLANT TYPE:	BWR	BWR	PWR
PLANT LOCATION:	SEACDAST	SEACDAST	INLAND
START-UP DATE:	1-DEC-72	1-DEC-72	01-APR-77
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	RESIN
SAMPLE SUB-TYPE:	LIQUID	LIQUID	RADWASTE
SAMPLING DATE:	01-NOV-83	01-NOV-83	25-OCT-83
SAMPLE NUMBER:	10491	10489	10554

Concentrations in microcuries/gram

A-203

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	3.21E-03	1.60E-04	3.22E-03	1.61E-04	6.32E-02	3.16E-03	4.33E-02	2.17E-03	2.40E-02	1.20E-03
14-C	<7.4E-07		<6.9E-07		4.91E-03	2.45E-04	1.04E-03	5.20E-05	1.15E-05	1.50E-06
54-MN	1.34E-06	6.68E-08	3.06E-05	2.75E-06	7.75E-03	5.43E-04	7.68E-03	6.91E-04	5.68E-04	5.68E-05
55-FE	<3.8E-06		<1.1E-05		1.06E-03	1.27E-04	1.92E-01	2.50E-02	1.20E-03	1.08E-04
58-CD	2.90E-06	1.45E-07	2.59E-04	1.30E-05	1.51E-01	7.54E-03	2.15E-01	1.08E-02	3.74E-02	1.87E-03
60-CD	7.44E-06	3.72E-07	4.93E-04	2.47E-05	1.55E-01	7.77E-03	2.41E-01	1.21E-02	1.47E-02	7.34E-04
59-NI	<1.3E-05		<3.6E-06		<1.2E-04		1.84E-03	2.03E-04	<6.1E-06	
63-NI	<3.6E-06		<2.9E-06		7.83E-03	3.91E-04	1.35E-01	6.77E-03	1.38E-03	6.89E-05
90-SR	<1.3E-07		9.36E-07	1.12E-07	2.37E-04	1.42E-05	2.48E-04	1.49E-05	1.30E-05	6.49E-07
95-ZR					<3.1E-03		3.26E-03	8.15E-04	<2.3E-04	
94-NB					<5.1E-05		<3.4E-05		<1.3E-06	
99-TC	<1.1E-07		<1.1E-07		<5.8E-05		<6.3E-05		<3.7E-06	
106-RU	<1.0E-07		<7.5E-06		<1.8E-03		<2.2E-03		<2.0E-04	
110M-AG	<1.8E-08		<1.3E-06		5.99E-03	3.00E-04	6.89E-03	3.44E-04	<3.3E-05	
125-SB	<7.7E-08		<5.8E-06		<1.5E-03		6.41E-03	1.22E-03	2.67E-04	1.39E-04
129-I	<5.9E-08		<1.4E-07		<3.4E-06		<2.5E-06		<5.2E-07	
134-CS	<1.0E-07		<8.0E-07		3.97E-02	1.98E-03	2.75E-02	1.38E-03	5.95E-03	2.97E-04
135-CS										
137-CS	<8.6E-08		<8.4E-07		5.81E-02	2.90E-03	4.94E-02	2.47E-03	1.22E-02	6.10E-04
141-CE	<2.1E-08		<1.3E-06		<8.3E-03		<2.0E-05		<8.1E-05	
144-CE	<6.2E-08		<4.1E-06		1.26E-03	1.26E-04	7.72E-04	6.18E-05	<5.7E-05	
152-EU										
154-EU										
155-EU										
235-U					<4.3E-07		<3.0E-07		<4.2E-04	
238-U					<7.7E-08		<1.7E-07		<2.7E-05	
238-PU					6.70E-06	7.37E-07	4.63E-06	3.70E-07	6.44E-08	8.37E-09
239-PU					2.61E-06	4.17E-07	1.87E-06	2.43E-07	1.50E-08	4.04E-09
241-PU					9.30E-04	1.86E-04	5.25E-04	1.05E-04	5.11E-06	1.43E-06
241-AM					1.16E-06	1.74E-07	2.26E-06	1.81E-07	1.01E-08	2.72E-09
242-CM					1.66E-05	8.31E-07	2.63E-05	1.32E-06	8.71E-09	1.39E-09
244-CM					2.97E-06	2.67E-07	3.58E-06	2.15E-07	5.51E-09	2.04E-09

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	3	4	3	PEACH BOTTOM	PEACH BOTTOM
UNIT NUMBER:	3	4	3	2	2
PLANT TYPE:	PWR	PWR	PWR	BWR	BWR
PLANT LOCATION:	SEACOAST	SEACOAST	SEACOAST	INLAND	INLAND
START-UP DATE:	01-OCT-72	01-JUN-73	01-OCT-72	1-JUL-74	1-JUL-74
SAMPLE TYPE:	REACTOR COOLANT	REACTOR COOLANT	GUIDE TUBE	REACTOR COOLANT	REBIN
SAMPLE SUB-TYPE:	SOLID	SOLID	METAL SHAVINGS	TOTAL	PRIMARY
SAMPLING DATE:	26-OCT-83	26-OCT-83	03-FEB-84	20-MAR-84	29-DEC-83
SAMPLE NUMBER:	10645	10646	10647	10706	10709

Concentrations in microcuries/gram

A-204

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<1.4E-07		<7.5E-08		2.75E-04	7.43E-05	1.05E-03	5.26E-05	1.11E-03	2.88E-04
14-C	9.26E-08	7.41E-09	1.49E-07	8.95E-09	7.08E-04	3.54E-05	2.53E-08	5.57E-09	3.40E-04	3.06E-05
54-MN	1.05E-06	1.37E-07	1.59E-07	2.86E-08	4.25E-02	4.25E-03	6.35E-06	3.17E-07	5.98E-01	1.06E-01
55-FE	5.89E-05	5.30E-06	4.38E-06	4.38E-07	3.50E-01	1.75E-02	9.01E-06	6.31E-07	2.09E+00	1.04E-01
58-CO	1.25E-04	6.26E-06	6.41E-06	3.21E-07	1.61E-02	5.65E-03	2.75E-04	1.20E-05	2.82E+00	2.26E-01
60-CD	3.16E-05	1.58E-06	2.74E-06	1.37E-07	1.56E+00	7.79E-02	4.64E-04	1.77E-05	2.12E+01	1.06E+00
59-NI	2.39E-06	4.54E-07	<1.2E-06		1.23E-03	7.99E-04	<1.9E-05		<1.8E-03	
63-NI	4.36E-05	2.18E-06	4.61E-07	2.30E-08	1.44E-01	7.20E-03	1.27E-06	1.02E-07	4.82E-01	2.41E-02
90-SR	4.53E-08	1.00E-08	<1.4E-08		3.69E-04	2.95E-05	<5.8E-07		3.19E-03	1.60E-04
95-ZR	6.13E-06	7.97E-07	8.84E-07	4.42E-08	1.00E-03	1.96E-04	2.84E-05	1.70E-06		
94-NB	<7.8E-08		<2.5E-08		1.67E-04	5.34E-05	<1.2E-06		<2.7E-04	
99-TC	6.53E-09	8.48E-10	<8.1E-09		3.42E-05	2.05E-06	<8.5E-05		<8.3E-04	
106-RU	<4.8E-07		<8.8E-08		<1.0E-02		<1.0E-05		<2.7E-01	
110M-AG	4.38E-06	2.19E-07	9.40E-08	8.46E-09	<2.4E-03		1.28E-06	1.03E-07	4.52E-01	2.26E-02
125-SB	1.10E-06	4.17E-07	<8.1E-08		2.86E-02	1.43E-03	1.72E-06	6.35E-07	5.42E-01	3.03E-01
129-I	<5.0E-08		<1.4E-08		<4.1E-05		<6.3E-07		<2.4E-05	
134-CS	8.75E-07	9.63E-08	3.14E-06	1.57E-07	<9.4E-04		6.50E-06	9.10E-07	4.23E+00	2.12E-01
135-CS										
137-CS	1.34E-06	1.47E-07	5.34E-06	2.67E-07	<1.2E-03		<7.8E-06		4.55E+00	2.28E-01
141-CE	6.21E-06	1.99E-06	<6.3E-08		<5.2E-08		8.52E-07	5.96E-08	1.15E-02	3.68E-03
144-CE	7.48E-06	6.73E-07	2.06E-07	1.03E-07	1.08E-02	5.40E-04	1.59E-05	9.77E-06	3.45E-03	1.59E-03
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	6.32E-09	5.05E-10	7.77E-10	1.17E-10	3.74E-05	1.87E-06	3.53E-08	6.88E-09	3.21E-05	2.56E-06
239-PU	6.11E-09	4.89E-10	4.14E-10	8.69E-11	4.44E-05	2.22E-06	8.16E-08	1.06E-08	1.39E-05	1.81E-06
241-PU	7.20E-07	1.51E-07	7.04E-08	3.52E-08	4.63E-03	5.10E-04	1.63E-05	3.19E-06	5.17E-03	3.62E-04
241-AM	2.30E-09	8.06E-10	2.61E-10	9.91E-11	2.40E-05	1.20E-06	2.15E-08	4.33E-09	2.27E-05	7.27E-06
242-CM	2.19E-08	3.50E-09	1.72E-09	3.44E-10	1.29E-05	7.72E-07	2.10E-08	4.61E-09	5.97E-05	1.55E-05
244-CM	2.73E-09	8.75E-10	9.66E-11	6.08E-11	1.23E-05	7.38E-07	3.48E-09	1.78E-09	6.57E-06	3.94E-06

# RADIOACTIVE WASTE SAMPLE LISTING

S A I   D A T A B A S E

PLANT NAME:	PEACH BOTTOM	PEACH BOTTOM	PEACH BOTTOM	PEACH BOTTOM	PEACH BOTTOM
UNIT NUMBER:	2	2	2	2	2
PLANT TYPE:	BWR	BWR	BWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-JUL-74	1-JUL-74	1-JUL-74	1-JUL-74	1-JUL-74
SAMPLE TYPE:	RESIN	SMEAR	SMEAR	SMEAR	SMEAR
SAMPLE SUB-TYPE:	PRIMARY	RADWASTE	RADWASTE	RADWASTE	RADWASTE
SAMPLING DATE:	07-MAR-84	23-MAR-84	23-MAR-84	23-MAR-84	23-MAR-84
SAMPLE NUMBER:	10710	10711	10712	10713	10714

Concentrations in microcuries/gram

A-205

	Value	Unc.	Value	Unc.	Value	Unc.	Value	Unc.	Value	Unc.
3-H	8.82E-04	1.59E-04	3.35E-03	8.37E-04	1.33E-03	3.60E-04	7.13E-04	1.93E-04	4.26E-04	1.49E-04
14-C	9.55E-03	4.78E-04	1.11E-02	5.54E-04	<6.1E-05		<2.7E-05		<3.1E-05	
54-MN	9.27E-03	1.39E-03	1.63E-02	1.14E-03	2.95E-02	2.36E-03	1.42E-02	1.14E-03	5.74E-04	1.44E-04
55-FE	1.19E-02	5.94E-04	7.23E-01	3.62E-02	3.79E+00	2.65E-01	1.02E+00	5.09E-02	5.10E-02	6.12E-03
58-CO	6.70E-02	3.35E-03	<4.0E-04		<7.8E-04		<3.7E-04		<4.8E-05	
60-CO	4.63E-01	4.16E-02	5.45E-01	2.72E-02	9.50E-01	4.75E-02	5.12E-01	2.56E-02	1.86E-02	9.30E-04
59-NI	<9.1E-04		<5.2E-04		<1.5E-03		<2.0E-03		4.85E-03	2.18E-03
63-NI	4.36E-02	2.18E-03	2.57E-02	1.29E-03	7.91E-02	3.96E-03	9.88E-03	4.94E-04	1.43E-02	7.16E-04
90-SR	2.17E-04	4.33E-05	<1.7E-04		<1.7E-04		<7.6E-05		<8.1E-05	
95-ZR	1.35E-02	5.79E-03								
94-NB	<2.2E-04		<3.6E-04		<9.8E-04		<1.2E-04		<7.8E-05	
99-TC	<3.2E-05		<1.0E-03		<3.0E-05		<2.1E-04		<3.2E-05	
106-RU	<3.2E-03		<2.6E-03		<4.9E-03		<2.5E-03		<3.3E-04	
110M-AG	7.99E-03	4.80E-04	<6.2E-04		<1.2E-03		<5.8E-04		<7.5E-05	
125-SB	<2.5E-03		<4.0E-03		<2.0E-02		<1.7E-03		<2.0E-04	
129-I	<3.7E-04		<1.4E-04		<5.8E-05		<4.6E-05		<8.8E-05	
134-CS	1.83E-01	1.10E-02	<2.5E-04		<4.7E-04		<2.4E-04		<3.1E-05	
135-CS										
137-CS	3.86E-01	1.93E-02	<3.1E-04		<5.9E-04		<3.0E-04		<3.8E-05	
141-CE	1.35E-03	1.22E-04	<5.7E-05		<2.5E-04		<8.5E-05		<2.0E-05	
144-CE	<6.0E-05		<1.5E-04		<6.1E-04		<3.9E-05		<7.3E-05	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	2.44E-06	4.88E-07	3.61E-06	6.86E-07	9.57E-06	1.24E-06	2.09E-06	4.60E-07	7.76E-07	2.79E-07
239-PU	1.04E-06	3.22E-07	1.11E-06	3.88E-07	5.35E-06	9.63E-07	1.10E-06	3.29E-07	1.47E-06	3.83E-07
241-PU	5.73E-04	1.26E-04	7.45E-04	3.13E-04	2.17E-03	5.65E-04	5.17E-04	2.17E-04	4.47E-04	1.43E-04
241-AM	1.36E-05	9.54E-07	2.40E-06	5.76E-07	3.85E-06	1.31E-06	1.34E-06	5.37E-07	<1.3E-06	
242-CM	5.32E-07	2.13E-07	2.91E-06	6.68E-07	<4.0E-07		<3.0E-07		<3.9E-06	
244-CM	6.11E-07	2.02E-07	1.24E-06	4.08E-07	2.10E-06	9.87E-07	8.50E-07	2.98E-07	<4.0E-06	

# RADIOACTIVE WASTE SAMPLE LISTING

SAI DATABASE

PLANT NAME:	PEACH BOTTOM	PEACH BOTTOM	PEACH BOTTOM	V. C. SUMMER	V. C. SUMMER
UNIT NUMBER:	2	2	2	1	1
PLANT TYPE:	BWR	BWR	BWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	INLAND
START-UP DATE:	1-JUL-74	1-JUL-74	1-JUL-74	1-AUG-82	1-AUG-82
SAMPLE TYPE:	SMEAR	SMEAR	DRY ACTIVE WASTE	FILTER	FILTER
SAMPLE SUB-TYPE:	RADWASTE	RADWASTE	SMEAR	SECONDARY	SECONDARY
SAMPLING DATE:	23-MAR-84	23-MAR-84	23-MAR-84	12-31-83	12-31-83
SAMPLE NUMBER:	10715	10716	10717	10654	10655

Concentrations in microcuries/gram

A-206

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	7.13E-04	1.85E-04	4.96E-04	1.49E-04	2.44E-02	9.04E-03				
14-C	<2.7E-05		<2.1E-05		2.41E-03	9.41E-04				
54-MN	8.43E-03	9.28E-04	1.17E-02	1.05E-03	1.39E-02	1.94E-03	<2.2E-06		8.91E-04	3.35E-05
55-FE	1.05E+00	1.05E-01	5.07E-01	3.55E-02	2.96E+00	2.07E-01				
58-CO	<3.0E-04		<3.2E-04		6.73E-03	2.02E-03	6.60E-05	1.12E-05	1.45E-02	7.27E-04
60-CO	3.25E-01	1.62E-02	3.79E-01	1.89E-02	9.54E-01	4.77E-02	3.42E-04	6.22E-05	2.72E-02	1.36E-03
59-NI	<8.0E-04		<8.3E-04		<3.0E-02					
63-NI	1.46E-02	7.29E-04	1.33E-02	6.65E-04	1.49E-01	1.49E-02				
90-SR	<9.8E-05		9.38E-05	4.69E-05	<3.7E-03		<1.6E-05		1.40E-06	4.19E-07
95-ZR					<7.6E-03				7.54E-04	1.13E-04
94-NB	<1.3E-04		<4.3E-04		<7.8E-03		<2.0E-06		<1.7E-05	
99-TC	<2.3E-04		<4.6E-05		<4.3E-03					
106-RU	<2.0E-03		<2.1E-03		<4.7E-03		<1.7E-05		<1.4E-04	
110M-AG	<4.6E-04		2.15E-03	1.08E-04	7.28E-03	1.89E-03	<3.0E-06		<1.6E-04	
125-SB	<9.1E-03		<1.4E-03		<8.4E-03		<1.2E-05		3.49E-04	6.28E-05
129-I	<4.4E-04		<4.7E-05		<1.8E-03					
134-CS	<1.9E-04		<2.0E-04		5.11E-02	2.55E-03	2.45E-05	7.61E-06	<1.3E-05	
135-CS										
137-CS	<2.4E-04		<2.6E-04		1.04E-01	5.20E-03	3.72E-05	9.29E-06	<1.5E-05	
141-CE	<1.5E-04		<5.2E-05		<5.0E-04		<3.9E-06		<2.9E-05	
144-CE	<5.2E-04		<6.1E-05		1.00E-02	5.00E-03	<6.4E-06		4.65E-04	9.77E-05
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	1.89E-05	1.32E-06	3.82E-06	6.12E-07	8.90E-05	1.96E-05				
239-PU	1.51E-05	1.21E-06	2.20E-06	4.62E-07	3.99E-05	1.32E-05				
241-PU	1.71E-03	1.37E-04	<4.8E-05		1.42E-02	5.82E-03				
241-AM	3.79E-05	7.57E-06	1.71E-06	4.28E-07	9.03E-05	2.71E-05				
242-CM	2.58E-05	6.71E-06	6.85E-07	2.94E-07	<7.3E-06					
244-CM	1.15E-05	4.13E-06	9.13E-07	3.19E-07	<2.6E-05					

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	V. C. SUMNER	V. C. SUMNER	V. C. SUMNER	OYSTER CREEK	OYSTER CREEK
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	BWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	SEACAST	SEACAST
START-UP DATE:	1-AUG-82	1-AUG-82	1-AUG-82	1-DEC-69	1-DEC-69
SAMPLE TYPE:	RESIN	RESIN	RESIN	RESIN	RESIN
SAMPLE SUB-TYPE:	SECONDARY	SECONDARY	SECONDARY	PRIMARY	PRIMARY
SAMPLING DATE:	31-DEC-83	24-FEB-84	24-FEB-84	15-MAR-84	06-FEB-84
SAMPLE NUMBER:	10658	10674	10675	10696	10697

Concentrations in microcuries/gram

A-207

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H							4.83E-04	1.16E-04	7.03E-04	1.90E-04
14-C							1.13E-03	5.65E-05	1.20E-03	6.02E-05
54-MN	<9.7E-09		<1.2E-08		<5.4E-09		3.47E-03	1.49E-03	3.09E-02	5.87E-03
55-FE							<1.8E-03		8.20E-03	1.39E-03
58-CO	7.72E-08	4.25E-08	<1.2E-08		6.96E-08	2.44E-08	<5.6E-04		<2.8E-03	
60-CO	<4.2E-08		<1.2E-07		7.72E-08	3.47E-08	2.98E-01	1.49E-02	1.74E+00	8.72E-02
59-NI							<8.0E-04		<1.1E-03	
63-NI							1.45E-03	2.76E-04	8.93E-03	6.25E-04
90-SR	<1.9E-08		<2.0E-08		<2.6E-08		1.61E-02	8.06E-04	4.30E-02	2.15E-03
95-ZR										
94-NB	<9.1E-09				<6.6E-09		<1.7E-04		<2.5E-04	
99-TC							<2.8E-05		<6.4E-05	
106-RU	<7.8E-08		<1.0E-07		<5.3E-08		<3.6E-03		<1.3E-02	
110M-AG	<1.5E-08		<1.9E-08		<9.8E-09		<8.3E-04		<3.2E-03	
125-SB	<6.5E-08		<9.2E-08		<4.4E-08		<2.6E-03		<8.6E-03	
129-I							<7.8E-06		<1.9E-05	
134-CS	<8.4E-09		<1.1E-08		<1.5E-08		1.89E-03	1.00E-03	<1.2E-03	
135-CS										
137-CS	<3.7E-08		<3.4E-08		<3.2E-08		2.14E-02	1.50E-03	4.03E-02	4.43E-03
141-CE	<4.0E-08		<2.4E-08		<1.2E-08		<3.0E-04		<1.6E-04	
144-CE	<5.7E-08		<4.5E-07		<2.8E-07		<1.0E-03		<2.4E-04	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU							1.25E-04	1.00E-05	1.05E-04	5.26E-06
239-PU							3.12E-05	4.99E-06	3.73E-05	1.86E-06
241-PU							7.71E-03	2.39E-03	4.48E-03	2.24E-04
241-AM							3.80E-05	5.70E-06	4.82E-05	2.89E-06
242-CM							4.74E-06	2.23E-06	5.52E-05	3.31E-06
244-CM							7.38E-05	7.38E-06	3.47E-05	2.43E-06

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	OYSTER CREEK	OYSTER CREEK	NORTH ANNA	GINNA	GINNA
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	BWR	BWR	PWR	PWR	PWR
PLANT LOCATION:	SEACDAST	SEACDAST	INLAND	INLAND	INLAND
START-UP DATE:	1-DEC-69	1-DEC-69	1-JUN-78	1-MAR-70	1-MAR-70
SAMPLE TYPE:	RESIN	RESIN	FILTER	CRUD	REACTOR COOLANT
SAMPLE SUB-TYPE:	PRIMARY	PRIMARY	PRIMARY	PRIMARY	LIGUID
SAMPLING DATE:	27-FEB-84	05-MAR-84	17-JAN-84	10-APR-8	9-APR-84
SAMPLE NUMBER:	1069B	10699	10672	1075B	10759

Concentrations in microcuries/gram

A-208

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	1.74E-03	3.13E-04	7.58E-04	6.83E-05	1.75E-02	1.05E-03	1.22E-01	6.08E-03	2.07E-01	1.04E-02
14-C	6.66E-04	3.33E-05	4.30E-04	2.15E-05	2.40E+00	1.20E-01	5.46E-03	2.73E-04	3.34E-05	1.67E-06
54-MN	4.34E+00	3.91E-01	4.15E-03	2.62E-03	6.17E+01	4.32E+00	9.34E-02	7.47E-03	3.41E-04	4.77E-05
55-FE	7.90E-01	5.53E-02	5.63E-03	5.63E-04	1.12E+03	2.35E+02				
58-CO	<1.5E-01		<1.1E-03		5.32E+02	2.66E+01	1.25E-01	8.74E-03	1.09E-01	5.46E-03
60-CO	1.12E+02	5.61E+00	3.80E-01	1.90E-02	1.26E+03	6.30E+01	2.93E+00	1.46E-01	2.82E-03	1.41E-04
59-NI	1.00E-02	3.90E-03	<1.3E-03		3.98E+00	1.99E-01	1.11E-03	8.89E-05	6.16E-05	1.36E-05
63-NI	3.34E-01	1.67E-02	1.95E-03	1.75E-04	3.28E+02	1.64E+01	6.11E-02	3.06E-03	4.90E-03	2.45E-04
90-SR	2.41E-01	1.21E-02	2.19E-02	1.10E-03	8.70E-01	4.35E-02	9.52E-04	4.76E-05	2.04E-05	1.02E-06
95-ZR					7.85E+01	4.71E+00	2.61E-02	1.46E-02		
94-NB	<7.5E-04		<9.3E-05		7.20E-02	3.60E-03	<4.6E-06		<1.7E-05	
99-TC	<9.3E-05		<3.0E-05		<9.1E-05		<3.3E-06		<4.1E-06	
106-RU	<9.0E-01		<6.2E-03		<1.3E+01		<2.2E-02		<4.3E-04	
110M-AG	<2.0E-01		<1.4E-03		<2.2E+00		2.68E-01	1.34E-02	3.41E-04	1.06E-04
125-SB	<6.4E-01		<5.0E-03		4.17E+01	2.30E+01	7.15E-02	7.15E-03	1.19E-03	3.21E-04
129-I	<1.7E-04		<6.6E-06		<1.6E-05		1.27E-05	4.45E-06	<7.7E-08	
134-CS	4.31E-01	2.41E-01	3.89E-03	1.13E-03	<1.3E+00		2.82E-02	1.10E-02	7.88E-03	1.34E-03
135-CS										
137-CS	1.11E+00	2.89E-01	2.89E-02	2.61E-03	<1.5E+00		<3.1E-03		6.75E-03	3.38E-04
141-CE	<1.3E-03		<5.1E-04		7.27E+00	3.63E-01	<1.0E-05		2.63E-06	1.24E-06
144-CE	2.76E-02	5.80E-03	<9.1E-04		3.72E+01	1.86E+00	9.31E-03	4.65E-04	<1.1E-06	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	1.00E-02	5.02E-04	1.55E-04	1.08E-05	5.68E-02	2.84E-03	2.87E-04	1.43E-05	1.87E-07	1.12E-08
239-PU	2.89E-03	1.44E-04	5.23E-05	6.28E-06	6.63E-02	3.31E-03	2.55E-04	1.27E-05	1.02E-07	9.20E-09
241-PU	5.17E-01	2.58E-02	9.11E-03	1.82E-03	6.77E+00	3.38E-01	2.82E-02	1.41E-03	1.23E-05	2.83E-06
241-AM	1.29E-03	6.43E-05	4.64E-05	6.03E-06	1.51E-02	9.05E-04	1.94E-04	9.68E-06	2.50E-08	3.75E-09
242-CM	8.09E-04	4.05E-05	3.02E-06	1.81E-06	1.76E-01	8.78E-03	3.47E-04	1.73E-05	4.35E-07	2.18E-08
244-CM	1.22E-03	6.12E-05	8.65E-05	8.65E-06	6.44E-03	5.15E-04	2.85E-04	1.43E-05	3.80E-08	4.56E-09

# RADIOACTIVE WASTE SAMPLE LISTING

S A I   D A T A B A S E

PLANT NAME:	GINNA	GINNA	GINNA	MAINE YANKEE	MAINE YANKEE
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	INLAND	INLAND	INLAND	SEACOAST	SEACOAST
START-UP DATE:	1-MAR-70	1-MAR-70	1-MAR-70	1-DEC-72	1-DEC-72
SAMPLE TYPE:	EVAPORATOR BOTTOMS	FILTER	SMEAR	REACTOR COOLANT	FILTER SLUDGE
SAMPLE SUB-TYPE:	SOLID	PRIMARY	PRIMARY	TOTAL	SECONDARY
SAMPLING DATE:	15-MAR-84	15-MAR-84	22-MAR-84	13-MAR-84	15-MAR-84
SAMPLE NUMBER:	10760	10761	10762	10727	10729

Concentrations in microcuries/gram

A-209

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	1.34E-01	6.71E-03	1.19E-01	5.95E-03	6.42E-04	1.48E-04	4.97E-03	2.48E-04	4.31E-04	5.17E-05
14-C	1.11E-04	5.54E-06	2.80E-01	1.40E-02	1.15E-02	5.74E-04	5.70E-06	2.62E-07	4.56E-03	2.28E-04
54-MN	<1.8E-05		2.48E+00	1.73E-01	1.17E+00	9.32E-02	1.93E-04	9.53E-06	3.78E-02	4.16E-03
55-FE							3.47E-05	1.74E-06	1.76E+00	2.64E-01
58-CO	2.03E-04	6.69E-05	5.31E+01	2.65E+00	2.66E+01	1.33E+00	9.75E-04	3.45E-05	1.12E-01	5.62E-03
60-CO	3.32E-03	5.32E-04	4.28E+01	2.14E+00	3.12E+01	1.56E+00	2.08E-04	8.29E-06	1.63E+00	8.17E-02
59-NI	<1.5E-05		1.83E-01	9.13E-03	2.96E-02	3.85E-03	5.97E-07	2.75E-07	3.59E-02	1.79E-03
63-NI	4.76E-04	2.38E-05	9.16E+00	4.58E-01	1.28E+00	6.39E-02	4.80E-05	1.89E-06	4.19E+00	2.09E-01
90-SR	5.35E-07	1.87E-07	6.08E-02	3.04E-03	1.31E-03	6.56E-05	1.13E-06	5.59E-08	8.18E-04	4.09E-05
95-ZR			3.37E+00	2.02E-01	4.35E-01	2.18E-02	8.62E-06	6.03E-07		
94-NB	<1.5E-06		2.44E-03	2.20E-04	8.17E-04	4.08E-05	<2.0E-07		<3.3E-05	
99-TC	<5.4E-07		<3.4E-05		<6.3E-05		<5.8E-08		<1.2E-04	
106-RU	<3.3E-04		<5.5E-01		<2.7E-01		<5.0E-06		<9.4E-03	
110M-AG	<2.5E-05		2.08E+00	1.67E-01	<4.7E-02		3.85E-06	2.31E-07	<2.3E-03	
125-SB	<4.5E-04		3.24E+00	6.16E-01	<1.9E-01		3.79E-06	1.74E-06	3.38E-02	1.69E-03
129-I	8.71E-07	2.27E-07	3.52E-04	7.39E-05	4.01E-05	1.16E-05	<1.9E-07		<4.4E-06	
134-CS	2.83E-02	1.42E-03	<6.1E-02		<2.8E-02		2.30E-06	1.38E-06	3.05E-02	2.44E-03
135-CS										
137-CS	9.88E-02	4.94E-03	<5.7E-02		<2.8E-02		3.04E-06	1.55E-06	3.90E-01	1.95E-02
141-CE	<7.1E-07		1.11E-01	1.33E-02	1.73E-01	8.65E-03	1.81E-06	5.97E-07	<1.0E-06	
144-CE	<9.4E-07		1.49E+00	7.45E-02	1.19E-01	5.95E-03	7.52E-08	4.36E-08	2.50E-04	3.50E-05
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	3.84E-08	5.77E-09	2.47E-02	1.23E-03	1.31E-03	6.53E-05	4.05E-09	8.25E-10	3.24E-05	2.27E-06
239-PU	3.01E-08	5.11E-09	2.44E-02	1.22E-03	2.25E-03	1.13E-04	1.01E-09	3.46E-10	6.18E-05	3.71E-06
241-PU	3.82E-06	1.15E-06	2.22E+00	1.11E-01	1.20E-01	6.02E-03	8.45E-07	3.38E-07	5.36E-03	5.90E-04
241-AM	5.85E-08	5.27E-09	1.59E-02	7.97E-04	2.13E-03	1.06E-04	4.68E-09	7.96E-10	2.62E-05	1.31E-06
242-CM	2.14E-08	3.85E-09	1.21E-01	6.04E-03	3.33E-03	1.67E-04	8.29E-09	5.77E-10	2.72E-06	4.62E-07
244-CM	2.65E-08	3.71E-09	2.50E-02	1.25E-03	6.87E-04	3.44E-05	5.44E-10	8.71E-11	4.31E-06	5.18E-07

# RADIOACTIVE WASTE SAMPLE LISTING

S A I D A T A B A S E

PLANT NAME:	MAINE YANKEE	MAINE YANKEE	MAINE YANKEE	CINNA	V. C. SUMMER
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	PWR
PLANT LOCATION:	SEACOAST	SEACOAST	SEACOAST	INLAND	INLAND
START-UP DATE:	1-DEC-72	1-DEC-72	1-DEC-72	1-MAR-70	1-AUG-82
SAMPLE TYPE:	EVAPORATOR BOTTOMS	EVAPORATOR BOTTOMS	SMEAR	SMEAR	EVAPORATOR BOTTOMS
SAMPLE SUB-TYPE:	SOLID	SOLID	RADWASTE	PRIMARY	SOLID
SAMPLING DATE:	02-FEB-84	10-MAR-84	15-MAR-84	14-MAR-84	25-APR-84
SAMPLE NUMBER:	10730	10731	10732	10757	10808

Concentrations in microcuries/gram

A-210

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	8.67E-04	4.33E-05	1.19E-03	5.96E-05	<3.1E-04				3.37E-02	1.69E-03
14-C	3.94E-04	1.98E-05	1.39E-03	6.94E-05	7.03E-04	3.52E-05			6.12E-05	3.06E-06
54-MN	8.04E-03	4.02E-04	7.81E-04	1.41E-04	1.03E-02	1.33E-03	1.31E-02	1.70E-03	4.39E-03	2.19E-04
55-FE	2.96E-02	1.77E-03	8.34E-02	9.17E-03	1.58E+00	1.11E-01			1.86E-02	1.49E-03
58-CO	4.99E-02	2.50E-03	3.28E-03	1.97E-04	8.23E-03	1.65E-03	1.81E-01	9.03E-03	1.80E-01	8.99E-03
60-CO	3.87E-02	1.94E-03	4.11E-02	2.03E-03	6.66E-01	3.33E-02	5.24E-01	2.62E-02	2.95E-02	1.48E-03
59-NI	3.89E-04	3.89E-05	1.90E-04	1.14E-05	4.63E-02	3.70E-03			1.70E-04	2.54E-05
63-NI	4.85E-02	2.43E-03	2.54E-02	1.27E-03	4.30E+00	2.15E-01			1.11E-02	5.53E-04
90-SR	6.99E-05	3.50E-06	2.54E-05	1.27E-06	1.65E-04	4.94E-05	8.85E-04	4.42E-05	2.38E-06	7.37E-07
95-ZR	<1.4E-03						1.42E-02	4.11E-03	9.81E-04	4.71E-04
94-NB	<1.1E-06		<3.0E-06		<8.1E-05		<5.8E-04		<4.1E-06	
99-TC	<1.0E-05		<3.5E-06		<5.5E-05				<2.3E-06	
106-RU	<5.9E-04		<3.9E-04		<3.1E-03		<4.4E-03		<7.9E-04	
110M-AG	5.70E-04	1.03E-04	4.75E-04	1.14E-04	<7.2E-04		<9.1E-04		<7.5E-05	
125-SB	1.76E-03	3.33E-04	3.25E-03	1.63E-04	6.44E-03	1.16E-03	1.07E-02	1.40E-03	<1.5E-03	
129-I	<4.1E-07		<3.3E-07		<4.6E-05				<8.1E-07	
134-CS	4.50E-02	2.25E-03	6.24E-03	3.12E-04	2.32E-02	1.16E-03	<4.3E-04		<9.0E-05	
135-CS										
137-CS	8.01E-02	4.01E-03	6.37E-02	3.19E-03	1.90E-01	9.50E-03	<4.6E-04		<7.4E-05	
141-CE	<1.7E-06		<7.0E-07		<7.2E-05		2.90E-03	1.22E-03	<4.2E-06	
144-CE	2.85E-05	3.70E-06	<7.1E-05		8.74E-04	3.06E-04	5.10E-03	2.65E-03	2.63E-03	1.26E-05
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	4.17E-07	2.50E-08	1.54E-06	7.68E-08	1.42E-05	1.13E-06			2.11E-08	5.28E-09
239-PU	6.24E-07	3.12E-08	2.43E-06	1.21E-07	2.18E-05	1.31E-06			6.97E-08	9.75E-09
241-PU	4.83E-05	6.76E-06	1.99E-04	1.99E-05	1.65E-03	3.13E-04			3.02E-05	7.54E-06
241-AM	2.98E-07	1.79E-08	1.35E-06	6.77E-08	1.32E-05	9.25E-07			7.75E-08	1.47E-08
242-CM	2.38E-07	2.14E-08	7.50E-07	3.75E-08	2.94E-06	4.99E-07			4.45E-08	1.29E-08
244-CM	1.01E-07	1.11E-08	6.13E-07	3.07E-08	4.35E-06	5.22E-07			2.18E-08	7.65E-09



# RADIOACTIVE WASTE SAMPLE LISTING

## S A I D A T A B A S E

PLANT NAME:	V. C. SUMMER	V. C. SUMMER	V. C. SUMMER	V. C. SUMMER	OYSTER CREEK
UNIT NUMBER:	1	1	1	1	1
PLANT TYPE:	PWR	PWR	PWR	PWR	BWR
PLANT LOCATION:	INLAND	INLAND	INLAND	INLAND	SEACOAST
START-UP DATE:	1-AUG-82	1-AUG-82	1-AUG-82	1-AUG-82	1-DEC-69
SAMPLE TYPE:	SMEAR	FILTER	RESIN	REACTOR COOLANT	RESIN
SAMPLE SUB-TYPE:	RADWASTE	RADWASTE	RADWASTE	SOLID	PRIMARY
SAMPLING DATE:	24-APR-84	24-APR-84	24-APR-84	27-APR-84	21-MAR-84
SAMPLE NUMBER:	10809	10810	10811	10812	10813

Concentrations in microcuries/gram

A-211

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H									<8. 3E-04	
14-C	6. 52E-04	3. 26E-05	<1. 5E-05		1. 78E-03	8. 90E-05	5. 14E-04	2. 57E-05	1. 93E-03	9. 66E-05
54-MN	8. 97E-02	4. 48E-03	9. 30E-03	4. 65E-04	3. 32E-02	1. 99E-03	6. 14E-02	3. 07E-03	<4. 7E-04	
55-FE	4. 03E-01	2. 02E-02	3. 48E-02	2. 44E-03	1. 63E-01	1. 46E-02	4. 35E-01	3. 48E-02	6. 52E-02	6. 52E-03
58-CO	6. 02E-01	3. 01E-02	5. 98E-02	2. 99E-03	3. 20E-01	1. 60E-02	3. 06E-01	1. 53E-02	<7. 1E-04	
60-CD	1. 75E-01	8. 75E-03	1. 54E-02	7. 71E-04	1. 64E-01	8. 21E-03	1. 09E-01	5. 43E-03	1. 66E-01	8. 28E-03
59-NI	<1. 4E-04		<2. 5E-04		<2. 6E-04		<3. 1E-03			
63-NI	3. 38E-02	1. 69E-03	3. 22E-03	1. 61E-04	<4. 6E-02		3. 21E-02	1. 61E-03	2. 84E-03	1. 62E-03
90-SR	<5. 7E-05		2. 19E-05	1. 31E-05	4. 35E-05	2. 87E-05	<9. 7E-05		1. 90E-02	9. 52E-04
95-ZR	9. 33E-03	7. 46E-04	6. 88E-03	3. 44E-04	4. 28E-03	5. 56E-04	1. 62E-02	1. 62E-03		
94-NB	<8. 9E-06		<6. 4E-05		<1. 3E-04		<6. 2E-07		<4. 6E-04	
99-TC	<3. 8E-05		<1. 3E-05		<2. 0E-04		<3. 9E-05		<5. 8E-04	
106-RU	<2. 2E-03		<3. 1E-04		<5. 4E-03		<3. 6E-03		<3. 0E-03	
110M-AG	<3. 0E-04		<3. 7E-05		<7. 4E-04		<4. 4E-04		<7. 5E-04	
125-SB	<1. 4E-03		<2. 1E-04		<3. 6E-03				<2. 1E-03	
129-I	<1. 4E-04		<4. 2E-06		<1. 6E-05		<3. 3E-05		<6. 3E-05	
134-CS	<2. 4E-04		<3. 4E-05		<5. 7E-04		<4. 0E-04		<2. 8E-04	
135-CS										
137-CS	<2. 0E-04		<2. 8E-05		<5. 4E-04		<3. 5E-04		1. 36E-02	1. 23E-03
141-CE	<5. 1E-06		<7. 1E-05		<1. 0E-04		<2. 9E-04		<6. 9E-05	
144-CE	<5. 3E-06		<7. 3E-05		<1. 3E-04		<7. 4E-04		<8. 5E-04	
152-EU										
154-EU										
155-EU										
235-U										
238-U										
238-PU	2. 05E-05	3. 08E-06	6. 38E-06	6. 38E-07	1. 75E-06	3. 86E-07	5. 88E-06	1. 06E-06	1. 72E-04	8. 58E-06
239-PU	6. 73E-06	1. 75E-06	4. 12E-06	5. 36E-07	1. 05E-06	2. 94E-07	1. 88E-06	5. 83E-07	2. 83E-05	3. 68E-06
241-PU	7. 37E-04	3. 83E-04	6. 81E-04	1. 50E-04	3. 96E-04	1. 58E-04	4. 84E-04	1. 98E-04	3. 71E-03	8. 92E-04
241-AM	3. 72E-06	8. 56E-07	3. 39E-06	4. 06E-07	1. 65E-06	3. 47E-07	1. 60E-06	3. 68E-07	1. 41E-04	7. 05E-06
242-CM	1. 61E-06	6. 76E-07	1. 61E-06	3. 22E-07	2. 63E-07	1. 66E-07	1. 53E-06	4. 13E-07	1. 73E-04	1. 04E-05
244-CM	2. 02E-06	6. 46E-07	1. 41E-06	2. 54E-07	6. 99E-07	2. 31E-07	4. 60E-07	1. 98E-07	2. 03E-04	1. 01E-05

# RADIOACTIVE WASTE SAMPLE LISTING

S A I   D A T A B A S E

PLANT NAME:	OYSTER CREEK		
UNIT NUMBER:	1	1	1
PLANT TYPE:	BWR	BWR	BWR
PLANT LOCATION:	SEACOAST	INLAND	INLAND
START-UP DATE:	1-DEC-69	1-JUN-83	1-JUN-83
SAMPLE TYPE:	RESIN	SMEAR	RESIN
SAMPLE SUB-TYPE:	FUEL POOL	RADWASTE	PRIMARY
SAMPLING DATE:	23-MAR-84	08-MAY-84	11-MAY-84
SAMPLE NUMBER:	10814	10876	10878

Concentrations in microcuries/gram

A-212

	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>	<u>Value</u>	<u>Unc.</u>
3-H	<2.8E-03		3.64E-03	2.11E-03	2.80E-04	1.40E-05		
14-C	1.42E-03	8.51E-05	5.46E-04	2.46E-04	2.79E-05	4.74E-06		
54-MN	1.10E-02	4.17E-03	2.11E-01	1.06E-02	2.78E+00	1.39E-01		
55-FE	1.55E-02	4.64E-03	1.93E+00	9.66E-02	2.60E+00	2.86E-01		
58-CO	<2.2E-03		8.02E-02	4.01E-03	1.14E+00	5.70E-02		
60-CO	9.80E-01	4.90E-02	2.48E-01	1.24E-02	1.94E+00	9.70E-02		
59-NI			1.95E-02	1.07E-02	1.40E-03	9.80E-05		
63-NI	<2.1E-03		3.55E-02	2.84E-03	7.00E-02	3.50E-03		
90-SR	1.87E-02	9.34E-04	<1.9E-03		1.62E-04	8.11E-06		
95-ZR								
94-NB	<1.3E-03		<1.9E-03		<4.2E-05			
99-TC	<1.2E-04		<7.4E-04		<3.1E-06			
106-RU	<1.2E-02		<7.8E-03		<5.1E-02			
110M-AG	<2.4E-03		1.46E-02	1.17E-03	5.01E-01	2.50E-02		
125-SB	<1.4E-02		<4.7E-03		<3.3E-02			
129-I	<1.0E-04		<2.9E-04		<9.2E-07			
134-CS	1.37E-01	6.87E-03	<7.5E-04		<3.6E-02			
135-CS								
137-CS	2.26E+00	1.13E-01	<7.6E-04		<6.5E-03			
141-CE	<1.3E-03		<1.2E-03		<1.5E-05			
144-CE	<6.1E-04		<2.1E-03		<1.8E-05			
152-EU								
154-EU								
155-EU								
235-U								
238-U								
238-PU	2.19E-04	1.10E-05	5.20E-05	9.36E-06	2.05E-07	3.89E-08		
239-PU	3.49E-05	3.49E-06	2.40E-05	6.47E-06	1.20E-07	3.01E-08		
241-PU	4.33E-03	8.22E-04	8.85E-03	3.54E-03	2.56E-04	4.61E-05		
241-AM	1.47E-04	7.34E-06	3.52E-05	6.68E-06	9.24E-08	2.22E-08		
242-CM	2.05E-04	1.02E-05	6.78E-06	3.46E-06	2.74E-08	1.40E-08		
244-CM	2.36E-04	1.18E-05	9.90E-06	3.66E-06	<4.2E-09			

APPENDIX B  
METHODOLOGY FOR SCALING FACTOR EVALUATION

## APPENDIX B

### METHODOLOGY FOR SCALING FACTOR EVALUATION

Scaling factor evaluation uses the statistical techniques of weighted least-squares fits to an assumed linear relation between the observed concentrations of the two correlating nuclides and a form of a Chi-square test, the F test, to evaluate the validity of the assumed relationship. Uncertainties are calculated for the parameters of the linear equation relating the concentrations and a confidence factor is calculated for evaluating whether there is a real relation between the two nuclides being evaluated.

## B.1 Weighted Least-Squares Techniques

The notation for the following formulae is that of standard matrix algebra. We fit the data to the expression

$$y_1 = b_0 + b_1 x_1, \quad (1)$$

( $y_1$  and  $x_1$  are the measured concentrations for nuclides Y and X)

or

$$Y = b X, \quad (2)$$

(Matrix notation)

where

Y are the fitted values,  
X are the values to be fit, and  
b are the coefficients of the linear fit.

where

$$X = \begin{pmatrix} \sqrt{w_1} & \sqrt{w_1}x_1 \\ \sqrt{w_2} & \sqrt{w_2}x_2 \\ \vdots & \vdots \\ \sqrt{w_1} & \sqrt{w_1}x_1 \end{pmatrix}, \quad (\text{measured values of } X)$$

$$Y = \begin{pmatrix} y_1 \\ \vdots \\ y_1 \end{pmatrix} \quad (\text{calculated values, } y_1 = b_0 + b_1x_1)$$

$$b = \begin{pmatrix} b_0 \\ b_1 \end{pmatrix} \quad \text{and}$$

$w_1$  are the weights,  $1/(x_1^2 + y_1^2) \left( \left( \frac{\sigma_{x_1}}{x_1} \right)^2 + \left( \frac{\sigma_{y_1}}{y_1} \right)^2 \right)$ .

Least squares techniques minimize the differences between the fitted and the measured values of  $y$  by minimizing the expression,

$$\sum (y_1 - Y_1)^2 \tag{3}$$

or

$$(y - Xb)' (y - Xb),$$

where

$$y = \begin{pmatrix} w_1 y_1 \\ \vdots \\ w_1 y_1 \end{pmatrix},$$

and the prime, "'", refers to a transposed matrix. The simultaneous equations to be solved, the normal equations are then:

$$Sb = X'y, \tag{4}$$

where  $S$  is the  $2 \times 2$  matrix,  $S = X'X$ .

The solution to extract the coefficients is

$$b = S^{-1}X'y,$$

where  $S^{-1}$  is the inverse matrix.

The values are:

$$\begin{pmatrix} b_0 \\ b_1 \end{pmatrix} = \begin{pmatrix} \frac{\sum x_1^2 w_1}{\sum w_1 \sum w_1 x_1^2 - (\sum w_1 x_1)^2} & \frac{-\sum w_1 x_1}{\sum w_1 \sum w_1 x_1^2 - (\sum w_1 x_1)^2} \\ \frac{-\sum x_1 w_1}{\sum w_1 \sum w_1 x_1^2 - (\sum w_1 x_1)^2} & \frac{\sum w_1}{\sum w_1 \sum w_1 x_1^2 - (\sum w_1 x_1)^2} \end{pmatrix} \begin{pmatrix} \sum w_1 y_1 \\ \sum w_1 x_1 y_1 \end{pmatrix} \tag{5}$$

The variances in the two coefficients are

$$\sigma_{b0} = \left[ \frac{\sum w_i x_i^2}{\sum w_i \sum w_i x_i^2 - (\sum w_i x_i)^2} \right] \sigma^2^{1/2} \quad (6)$$

$$\sigma_{b1} = \left[ \frac{\sum w_i}{\sum w_i \sum w_i x_i^2 - (\sum w_i x_i)^2} \right] \sigma^2^{1/2} \quad (7)$$

$$\text{where } \sigma^2 = \frac{\sum w_i y_i^2 - n\bar{y}^2}{(n-1)} \quad \text{and } \bar{y} = \frac{\sum y_i w_i}{\sum w_i}$$

### F Test

The F test is a form of the statistical Chi-squared test that tests the significance of the regression line, i.e., whether there is a real correlation between the filtered pairs. The test comes from examining the total sums of the squares of the measured values about the mean value. In a least squares fit, the sums of the squares of the residuals can be broken into two components:

- (1) a sum of squares due to regression (i.e., the difference between the fitted values and the mean), and
- (2) a sum of squares about the regression line, the residual mean square (i.e., the distances between the data and the fitted line).

The F factor for the fit is the ratio of the regression mean square and the residual mean square. If the fitted line passes through all the data, the sum of the squares about the regression line is zero; the value of F is very large and all variance in the y values is due to regression. On the other hand, if there is no real evidence of a correlation, the variability will be in the data about the line, thus giving a small value for F. The particular F function used in linear regression has the degrees of freedom of 1 and (n-2) for the two dependent variables, n being the number of data points. In this case, the F factor is given by

$$F_{1,n-2} = (b'Sb - n\bar{y}^2) (n-2) / ((y'y - n\bar{y}^2) - (b'Sb - n\bar{y}^2)) \quad (8)$$

where  $\bar{y}$  is the weighted mean value of  $y$ .

### Determination of Confidence Level

The confidence level of the fit is given by the ratio of the integral of the probability function from zero to the value of  $F$  calculated above to the integral taken to infinity.

$$\text{Percent confidence level} = 100 \left( \int_0^F f(x) dx \right) / \left( \int_0^{\infty} f(x) dx \right) \quad (9)$$

The probability function,  $f(x)$ , is defined in terms of gamma functions as

$$f(x) = \left( \frac{\Gamma\left(\frac{n+1}{2}\right)}{\Gamma\left(\frac{1}{2}\right) \Gamma\left(\frac{n}{2}\right)} \right) \times \binom{n-1/2}{n} \times \left( \frac{x^{-1/2}}{\left(1 + \frac{x}{n}\right)^{\left(\frac{1+n}{2}\right)}} \right) \quad (10)$$

for the case of linear regression where the two degrees of freedom are 1 and  $n$ , respectively, for the two dependent variables. The integrals are solved numerically using the recursion relationships of the gamma functions.

$$\Gamma(1/2) = \sqrt{\pi} \quad , \text{ and} \quad (11)$$

$$\Gamma(1) = 1.0 \quad . \quad (12)$$



APPENDIX C  
CORRELATION RESULTS

Appendix C contains the results from all of the correlations done on the SAIC database. There are three listings for each correlation: the correlation result, the sorted "raw" data and sample number, and a plot of the correlation. The first listing gives the nuclides tested with the scaling nuclide first and the scaled nuclide the second. The date of the test is followed by the sorting criteria. The results follow and include the number of data in the fit, the off-set value, the correlation ratio and standard deviation, and the confidence level for the correlation.

The sorted raw data page is a printout of the file of data used for the correlation. The first line contains the nuclides tested and the number of sorting criteria used. This is followed by the sorting criteria. The first four columns of numerical data are respectively the concentration and uncertainty of the scaling nuclide, and of the scaled nuclide. The last column is the SAIC sample number.

The plot shows the data in the correlation curve and the fit to the data. The log of the scaling nuclide concentration is plotted on the x-axis and the log of the scaled nuclide concentration is plotted on the y-axis. The equation for calculating the concentration of y from the concentration of x is given along with the correlation coefficients.

The Appendix contains correlation data for corrosion products, fission products, and the transuranics in that order. The following index shows the location of specific correlation data.

#### INDEX OF CORRELATIONS

##### Corrosion Products

<u>Nuclides</u>	<u>Sorting Criteria</u>	<u>Page No.</u>
<sup>60</sup> Co and <sup>55</sup> Fe	BWR	C-(5-8)
<sup>60</sup> Co and <sup>59</sup> Ni	BWR	C-(9-12)
<sup>60</sup> Co and <sup>63</sup> Ni	BWR	C-(13-18)
<sup>60</sup> Co and <sup>14</sup> C	BWR	C-(19-22)
<sup>60</sup> Co and <sup>55</sup> Fe	PWR	C-(23-26)
<sup>60</sup> Co and <sup>59</sup> Ni	PWR	C-(27-30)
<sup>60</sup> Co and <sup>63</sup> Ni	PWR	C-(31-37)

$^{60}\text{Co}$ and $^{94}\text{Nb}$	PWR	C-(38-40)
$^{60}\text{Co}$ and $^{14}\text{C}$	PWR	C-(41-47)
$^{60}\text{Co}$ and $^{59}\text{Ni}$	NRC/BWR	C-(48-50)
$^{60}\text{Co}$ and $^{63}\text{Ni}$	NRC/BWR	C-(51-54)
$^{60}\text{Co}$ and $^{14}\text{C}$	NRC/BWR	C-(55-57)
$^{60}\text{Co}$ and $^{59}\text{Ni}$	NRC/PWR	C-(58-60)
$^{60}\text{Co}$ and $^{63}\text{Ni}$	NRC/PWR	C-(61-64)
$^{60}\text{Co}$ and $^{14}\text{C}$	NRC/PWR	C-(65-67)

### Fission Products

<u>Nuclides</u>	<u>Sorting Criteria</u>	<u>Page No.</u>
$^{137}\text{Cs}$ and $^{90}\text{Sr}$	BWR	C-(68-73)
$^{137}\text{Cs}$ and $^{99}\text{Tc}$	BWR	C-(74-76)
$^{137}\text{Cs}$ and $^{129}\text{I}$	BWR	C-(77-79)
$^{137}\text{Cs}$ and $^{90}\text{Sr}$	PWR	C-(80-86)
$^{137}\text{Cs}$ and $^{99}\text{Tc}$	PWR	C-(87-89)
$^{137}\text{Cs}$ and $^{129}\text{I}$	PWR	C-(90-92)
$^{137}\text{Cs}$ and $^{90}\text{Sr}$	NRC/BWR	C-(93-96)
$^{137}\text{Cs}$ and $^{99}\text{Tc}$	NRC/BWR	C-(97-99)
$^{137}\text{Cs}$ and $^{129}\text{I}$	NRC/BWR	C-(100-102)
$^{137}\text{Cs}$ and $^{90}\text{Sr}$	NRC/PWR	C-(103-106)
$^{137}\text{Cs}$ and $^{90}\text{Sr}$	PWR Resin	C-107-110)
$^{137}\text{Cs}$ and $^{99}\text{Tc}$	PWR Resin	C-111-113)
$^{137}\text{Cs}$ and $^{129}\text{I}$	PWR Resin	C-114-116)
$^{137}\text{Cs}$ and $^{90}\text{Sr}$	BWR Resin	C-117-120)
$^{137}\text{Cs}$ and $^{129}\text{I}$	BWR Resin	C-121-123)
$^{137}\text{Cs}$ and $^{90}\text{Sr}$	BWR Filter Sludge	C-124-127)
$^{137}\text{Cs}$ and $^{99}\text{Tc}$	BWR Filter Sludge	C-128-130)
$^{137}\text{Cs}$ and $^{129}\text{I}$	BWR Filter Sludge	C-131-133)
$^{137}\text{Cs}$ and $^{90}\text{Sr}$	PWR Dry Active Waste	C-134-136)
$^{137}\text{Cs}$ and $^{90}\text{Sr}$	BWR Dry Active Waste	C-137-139)
$^{137}\text{Cs}$ and $^{90}\text{Sr}$	PWR Reactor Coolant	C-140-142)
$^{137}\text{Cs}$ and $^{90}\text{Sr}$	Monticello	C-(143-145)
$^{137}\text{Cs}$ and $^{90}\text{Sr}$	Oyster Creek	C-(146-148)
$^{137}\text{Cs}$ and $^{90}\text{Sr}$	Vermont Yankee	C-(149-151)

$^{137}\text{Cs}$ and $^{90}\text{Sr}$	Brunswick	C-(152-154)
$^{137}\text{Cs}$ and $^{90}\text{Sr}$	Pilgrim	C-(155-157)
$^{137}\text{Cs}$ and $^{90}\text{Sr}$	Big Rock Point	C-(158-160)
$^{137}\text{Cs}$ and $^{90}\text{Sr}$	Maine Yankee	C-(161-163)
$^{137}\text{Cs}$ and $^{90}\text{Sr}$	Farley	C-(164-166)
$^{137}\text{Cs}$ and $^{90}\text{Sr}$	Ginna	C-(167-169)
$^{137}\text{Cs}$ and $^{90}\text{Sr}$	Zion	C-(170-172)

### Transuranic Nuclides

<u>Nuclides</u>	<u>Sorting Criteria</u>	<u>Page No.</u>
$^{144}\text{Ce}$ and $^{241}\text{Pu}$	BWR	C-(173-176)
$^{144}\text{Ce}$ and $^{242}\text{Cm}$	BWR	C-(177-181)
$^{144}\text{Ce}$ and $^{238}\text{Pu}$	BWR	C-(182-186)
$^{144}\text{Ce}$ and $^{239}\text{Pu}$	BWR	C-(187-191)
$^{144}\text{Ce}$ and $^{241}\text{Am}$	BWR	C-(192-196)
$^{144}\text{Ce}$ and $^{244}\text{Cm}$	BWR	C-(197-201)
$^{144}\text{Ce}$ and $^{241}\text{Pu}$	PWR	C-(202-206)
$^{144}\text{Ce}$ and $^{242}\text{Cm}$	PWR	C-(207-212)
$^{144}\text{Ce}$ and $^{238}\text{Pu}$	PWR	C-(213-219)
$^{144}\text{Ce}$ and $^{239}\text{Pu}$	PWR	C-(220-226)
$^{144}\text{Ce}$ and $^{241}\text{Am}$	PWR	C-(227-233)
$^{144}\text{Ce}$ and $^{244}\text{Cm}$	PWR	C-(234-239)
$^{239}\text{Pu}$ and $^{241}\text{Am}$	BWR	C-(240-246)
$^{239}\text{Pu}$ and $^{242}\text{Cm}$	BWR	C-(247-253)
$^{239}\text{Pu}$ and $^{238}\text{Pu}$	BWR	C-(254-261)
$^{239}\text{Pu}$ and $^{241}\text{Pu}$	BWR	C-(262-266)
$^{239}\text{Pu}$ and $^{244}\text{Cm}$	BWR	C-(267-273)
$^{239}\text{Pu}$ and $^{241}\text{Am}$	PWR	C-(274-283)
$^{239}\text{Pu}$ and $^{242}\text{Cm}$	PWR	C-(284-292)
$^{239}\text{Pu}$ and $^{238}\text{Pu}$	PWR	C-(293-302)
$^{239}\text{Pu}$ and $^{241}\text{Pu}$	PWR	C-(303-309)
$^{239}\text{Pu}$ and $^{244}\text{Cm}$	PWR	C-(310-319)

## CORRELATION RESULTS

Nuclides Tested for Correlation are 60-CO and 55-FE

Test made on 15-SEP-84

Sorting Criteria are :

BWR

Number of entries in the fit is 112

Zero Offset Value, B0, is 1.79236E-05

Correlation Ratio, B1, is 5.60881E-01

Standard Deviation in B0 is 1.24372E-05

Standard Deviation in B1 is 9.64210E-02

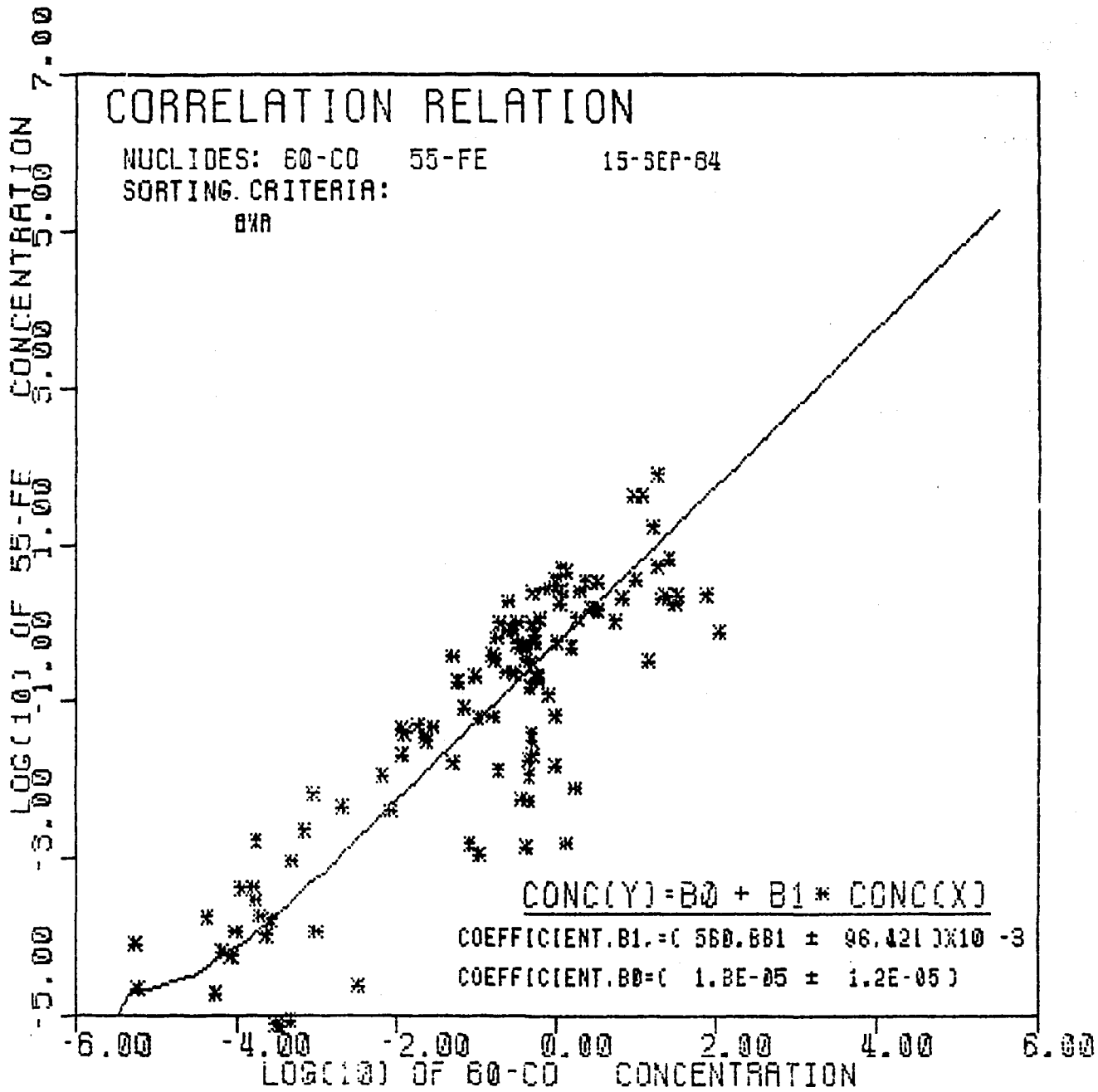
F-TEST Value is 47.821

Confidence Level for this Correlation is: 99. %

BWR

0. 16100E-03	0. 80500E-05	0. 44200E-03	0. 38000E-04	10005
0. 52000E-01	0. 26000E-02	0. 17200E-01	0. 10000E-02	10006
0. 27700E-03	0. 13850E-04	0. 17000E-03	0. 15000E-04	10163
0. 10900E+00	0. 20000E-01	0. 11400E-02	0. 11000E-03	10164
0. 17300E+00	0. 86500E-02	0. 34200E+00	0. 17100E-01	10165
0. 16400E+02	0. 82000E+00	0. 17600E+02	0. 90000E+00	10166
0. 90000E+01	0. 45000E+00	0. 42300E+02	0. 21150E+01	10167
0. 53390E-05	0. 29935E-06	0. 82800E-04	0. 14395E-04	10192
0. 58891E-05	0. 28462E-06	0. 22800E-04	0. 15960E-05	10193
0. 90388E-03	0. 38394E-04	0. 68100E-02	0. 47670E-03	10194
0. 21236E-02	0. 82934E-04	0. 45310E-02	0. 30641E-03	10195
0. 50780E+00	0. 25390E-01	0. 21700E-01	0. 23870E-02	10200
0. 46043E+00	0. 23022E-01	0. 17900E-01	0. 19690E-02	10201
0. 26000E+02	0. 13000E+01	0. 68100E+01	0. 68100E+00	10202
0. 15652E+01	0. 78262E-01	0. 49000E+00	0. 53900E-01	10203
0. 29311E+00	0. 14656E-01	0. 83400E+00	0. 50040E-01	10204
0. 68700E-03	0. 34350E-04	0. 23600E-02	0. 59000E-03	10266
0. 17070E-03	0. 85352E-05	0. 30100E-03	0. 75250E-04	10267
0. 97600E-04	0. 48800E-05	0. 12000E-03	0. 60000E-04	10268
0. 59499E+00	0. 29750E-01	0. 21400E+00	0. 53500E-01	10269
0. 53800E+01	0. 26900E+00	0. 11000E+01	0. 27500E+00	10270
0. 32186E+01	0. 16093E+00	0. 33800E+01	0. 16900E+00	10271
0. 33692E-03	0. 16369E-04	0. 74400E-05	0. 81840E-06	10345
0. 49527E+00	0. 24764E-01	0. 40495E-01	0. 28347E-02	10347
0. 27214E+01	0. 13607E+00	0. 15561E+01	0. 18673E+00	10348
0. 30691E-03	0. 15345E-04	0. 78270E-05	0. 46962E-05	10382
0. 95689E+01	0. 47845E+00	0. 36145E+01	0. 28916E+00	10384
0. 10096E+01	0. 50480E-01	0. 60224E+00	0. 10840E+00	10385
0. 11933E-01	0. 59665E-03	0. 21400E-01	0. 57780E-02	10386
0. 59000E-01	0. 29500E-02	0. 18442E+00	0. 92210E-02	10442
0. 33824E+01	0. 16912E+00	0. 14744E+01	0. 22115E+00	10407
0. 33024E+00	0. 16512E-01	0. 55536E+00	0. 83305E-01	10408
0. 71902E+00	0. 35951E-01	0. 28198E+01	0. 14099E+00	10409
0. 65200E-04	0. 32600E-05	0. 66594E-04	0. 59936E-05	10410
0. 46800E-03	0. 23400E-04	0. 95191E-03	0. 19038E-03	10412
0. 25485E+00	0. 12743E-01	0. 83362E+00	0. 12504E+00	10414
0. 19301E+00	0. 96505E-02	0. 10300E+01	0. 10300E+00	10415
0. 11300E+01	0. 56502E-01	0. 18500E+01	0. 18500E+00	10416
0. 13301E+01	0. 66507E-01	0. 16232E-02	0. 14608E-03	10418
0. 79306E+00	0. 39653E-01	0. 12900E+00	0. 19350E-01	10419
0. 10900E-03	0. 54400E-05	0. 43600E-03	0. 65300E-04	10420
0. 86800E-04	0. 43400E-05	0. 58503E-04	0. 87754E-05	10422
0. 36373E+00	0. 18187E-01	0. 49000E+00	0. 49000E-01	10424
0. 97861E+00	0. 48930E-01	0. 70061E-01	0. 77067E-02	10425
0. 13326E+01	0. 66630E-01	0. 45700E+01	0. 11425E+01	10426
0. 95615E-01	0. 47808E-02	0. 20900E+00	0. 22990E-01	10427
0. 10689E+00	0. 53445E-02	0. 62305E-01	0. 93457E-02	10428
0. 53900E-04	0. 37700E-05	0. 19344E-04	0. 96721E-06	10429
0. 24100E-03	0. 12000E-04	0. 10643E-03	0. 74500E-05	10431
0. 30746E+00	0. 15373E-01	0. 23900E+00	0. 28680E-01	10433
0. 55003E+00	0. 27502E-01	0. 58292E+00	0. 87438E-01	10434
0. 11494E+02	0. 57472E+00	0. 42271E+02	0. 42271E+01	10478
0. 43240E+00	0. 21620E-01	0. 48552E+00	0. 33987E-01	10479
0. 83141E-01	0. 41571E-02	0. 16081E-02	0. 14473E-03	10494
0. 45984E+00	0. 22972E-01	0. 56077E-02	0. 39254E-03	10495
0. 46173E+00	0. 36938E-01	0. 15830E+00	0. 12664E-01	10496
0. 43023E+00	0. 21512E-01	0. 35740E+00	0. 28592E-01	10497
0. 47971E+00	0. 23986E-01	0. 32787E+00	0. 22951E-01	10498
0. 24071E+00	0. 12036E-01	0. 24279E+00	0. 24279E-01	10499
0. 28657E-01	0. 14329E-02	0. 47984E-01	0. 33589E-02	10500
0. 19362E-03	0. 83399E-05	0. 18957E-03	0. 13270E-04	10482

0. 85024E-02	0. 42512E-03	0. 41162E-02	0. 53511E-03	10484
0. 11631E-01	0. 58155E-03	0. 46200E-01	0. 46200E-02	10485
0. 12436E-01	0. 62180E-03	0. 40600E-01	0. 52780E-02	10487
0. 11395E+01	0. 56975E-01	0. 51821E+01	0. 67367E+00	10488
0. 18989E+00	0. 94946E-02	0. 13571E-01	0. 28499E-02	10507
0. 21912E+02	0. 10956E+01	0. 22802E+01	0. 15962E+00	10508
0. 30245E+02	0. 15123E+01	0. 17870E+01	0. 28593E+00	10509
0. 76319E+02	0. 38160E+01	0. 23667E+01	0. 33134E+00	10510
0. 49509E+00	0. 24755E-01	0. 34001E-01	0. 23801E-02	10511
0. 57919E+00	0. 28960E-01	0. 19646E+00	0. 13752E-01	10536
0. 62001E+00	0. 31001E-01	0. 11818E+01	0. 59092E-01	10537
0. 24314E-01	0. 12157E-02	0. 31989E-01	0. 67176E-02	10538
0. 18055E+00	0. 90276E-02	0. 65398E+00	0. 45779E-01	10539
0. 32096E+02	0. 16048E+01	0. 23137E+01	0. 13882E+00	10582
0. 66198E+01	0. 33099E+00	0. 21409E+01	0. 19268E+00	10449
0. 29575E+01	0. 14787E+00	0. 16628E+01	0. 83142E-01	10450
0. 17985E+01	0. 89926E-01	0. 11801E+01	0. 59006E-01	10451
0. 18078E+02	0. 90390E+00	0. 54670E+01	0. 60137E+00	10452
0. 50865E-01	0. 25432E-02	0. 38279E+00	0. 19140E-01	10453
0. 18712E+02	0. 93561E+00	0. 81000E+02	0. 56700E+01	10454
0. 42677E+00	0. 21337E-01	0. 14289E-02	0. 28577E-03	10492
0. 14050E+02	0. 70250E+00	0. 33154E+00	0. 23208E-01	10473
0. 23030E+01	0. 11515E+00	0. 35135E+01	0. 17568E+00	10540
0. 69816E-01	0. 34908E-02	0. 84006E-01	0. 58804E-02	10541
0. 17698E-03	0. 88492E-05	0. 17323E-02	0. 13859E-03	10543
0. 33218E-02	0. 16609E-03	0. 24381E-04	0. 92648E-05	10544
0. 42310E-04	0. 21155E-05	0. 18382E-03	0. 12867E-04	10545
0. 21800E-01	0. 10900E-02	0. 35810E-01	0. 46553E-02	10546
0. 56932E-01	0. 28466E-02	0. 18173E+00	0. 34529E-01	10547
0. 64478E-02	0. 32239E-03	0. 11363E-01	0. 15908E-02	10548
0. 11911E+01	0. 59556E-01	0. 26696E+01	0. 24027E+00	10549
0. 96205E-03	0. 44668E-04	0. 11878E-03	0. 10691E-04	10599
0. 16106E+00	0. 80532E-02	0. 38948E+00	0. 23369E-01	10601
0. 52443E+00	0. 26222E-01	0. 25875E+01	0. 12938E+00	10602
0. 46356E-03	0. 17710E-04	0. 90100E-05	0. 63070E-06	10706
0. 21197E+02	0. 10599E+01	0. 20854E+01	0. 10427E+00	10709
0. 46256E+00	0. 41631E-01	0. 11881E-01	0. 59407E-03	10710
0. 54495E+00	0. 27247E-01	0. 72337E+00	0. 36168E-01	10711
0. 95003E+00	0. 47501E-01	0. 37863E+01	0. 26504E+00	10712
0. 51243E+00	0. 25622E-01	0. 10177E+01	0. 50885E-01	10713
0. 18600E-01	0. 93000E-03	0. 50965E-01	0. 61158E-02	10714
0. 32486E+00	0. 16243E-01	0. 10495E+01	0. 10495E+00	10715
0. 37897E+00	0. 18949E-01	0. 50690E+00	0. 35483E-01	10716
0. 95432E+00	0. 47716E-01	0. 29600E+01	0. 20720E+00	10717
0. 17432E+01	0. 87160E-01	0. 82047E-02	0. 13948E-02	10697
0. 11219E+03	0. 56096E+01	0. 78984E+00	0. 55289E-01	10698
0. 38020E+00	0. 19010E-01	0. 56306E-02	0. 56306E-03	10699
0. 16557E+00	0. 82787E-02	0. 65229E-01	0. 65229E-02	10813
0. 97985E+00	0. 48993E-01	0. 15472E-01	0. 46415E-02	10814
0. 24763E+00	0. 12381E-01	0. 19322E+01	0. 96612E-01	10876
0. 19400E+01	0. 97000E-01	0. 26025E+01	0. 28627E+00	10878





## CORRELATION RESULTS

Nuclides Tested for Correlation are  $^{60}\text{CO}$  and  $^{59}\text{NI}$

Test made on 14-SEP-84

Sorting Criteria are :

BWR

Number of entries in the fit is 62

Zero Offset Value,  $B_0$ , is  $1.07252\text{E-}06$

Correlation Ratio,  $B_1$ , is  $4.24191\text{E-}03$

Standard Deviation in  $B_0$  is  $2.88184\text{E-}07$

Standard Deviation in  $B_1$  is  $1.87295\text{E-}03$

F-TEST Value is 5.343

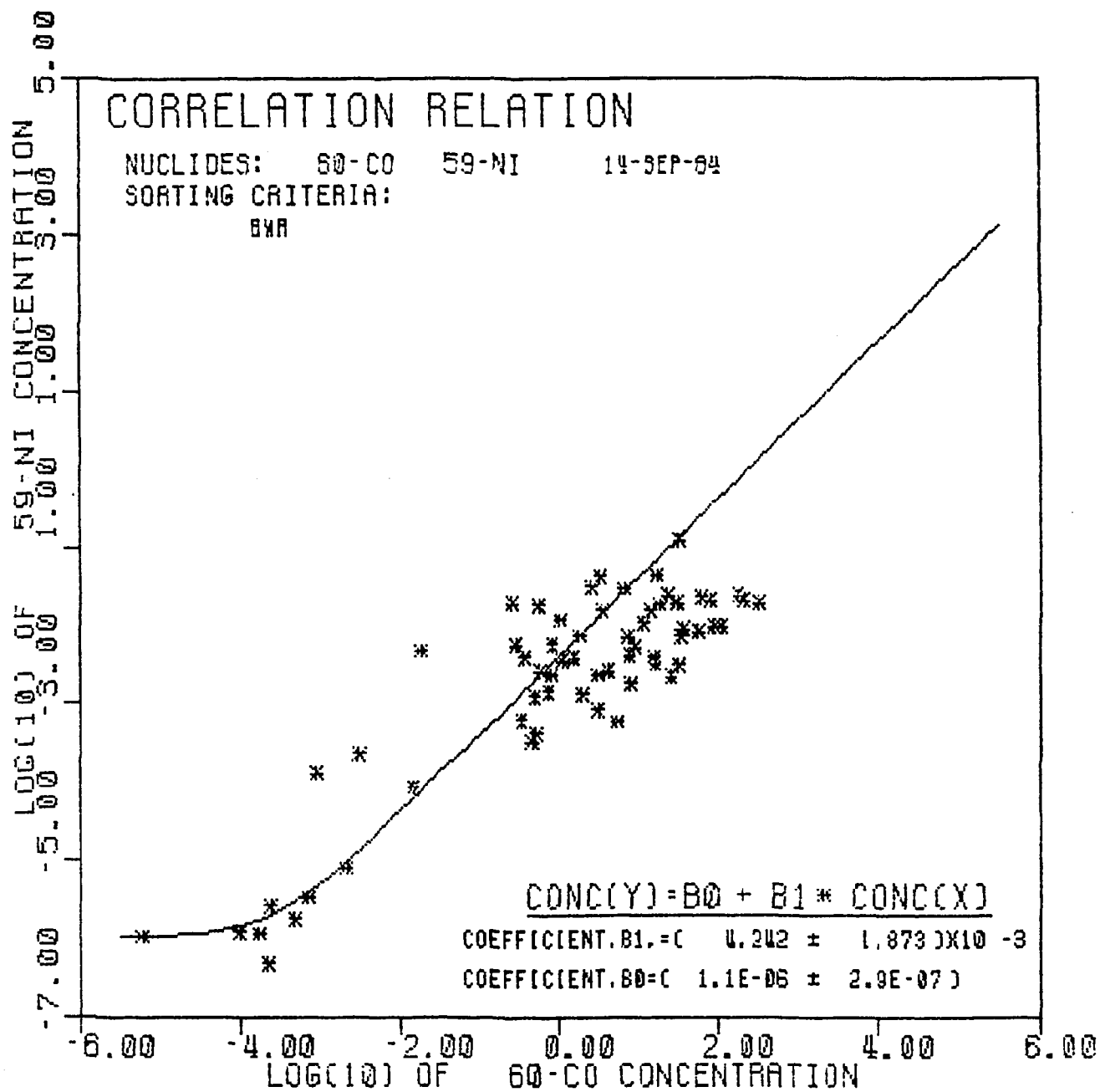
Confidence Level for this Correlation is: 97. %

BWR

0. 75800E+01	0. 38000E+00	0. 72000E-02	0. 33000E-02	6786
0. 83000E+00	0. 41500E-01	0. 60300E-02	0. 30100E-02	T069
0. 78000E+01	0. 40000E+00	0. 41800E-02	0. 19200E-02	T092
0. 31000E+02	0. 20000E+01	0. 20000E-01	0. 30000E-02	6813
0. 36700E+02	0. 18350E+01	0. 92000E-02	0. 19000E-02	7087
0. 21200E+03	0. 10600E+02	0. 21000E-01	0. 30000E-02	T087
0. 30100E+01	0. 15050E+00	0. 24000E-02	0. 90000E-03	7062
0. 57500E+02	0. 29000E+01	0. 86000E-02	0. 15000E-02	7686
0. 78800E+01	0. 39400E+00	0. 19000E-02	0. 69000E-03	7813
0. 16700E+02	0. 83500E+00	0. 34000E-02	0. 12000E-02	7915
0. 23200E+02	0. 12000E+01	0. 24500E-01	0. 38000E-02	7449
0. 54900E+00	0. 27450E-01	0. 16700E-01	0. 11000E-01	8002
0. 34800E+01	0. 17400E+00	0. 16400E-01	0. 33000E-02	7150
0. 32500E+00	0. 60300E+00	0. 20000E-01	0. 34000E-02	8023
0. 32000E+02	0. 20000E+01	0. 12600E+00	0. 80000E-02	T038
0. 17300E+02	0. 25000E+01	0. 44900E-01	0. 31000E-02	T112
0. 90600E+02	0. 45300E+01	0. 10000E-01	0. 20000E-02	7450
0. 24800E+C1	0. 12400E+00	0. 32000E-01	0. 50000E-02	7452
0. 17800E+03	0. 89000E+01	0. 25000E-01	0. 30000E-02	9117
0. 34300E+02	0. 17150E+01	0. 76000E-02	0. 80000E-03	9806
0. 31300E+01	0. 15650E+00	0. 87000E-03	0. 11000E-03	9807
0. 43000E+C1	0. 21500E+00	0. 27000E-02	0. 40000E-03	9808
0. 33900E+00	0. 16950E-01	0. 63000E-03	0. 10000E-03	9981
0. 80300E+02	0. 40150E+01	0. 21000E-01	0. 40000E-02	9982
0. 14700E-01	0. 73500E-03	0. 89000E-04	0. 44000E-04	10084
0. 16400E+02	0. 82000E+00	0. 41300E-02	0. 99000E-03	10166
0. 90000E+01	0. 45000E+00	0. 53000E-02	0. 32000E-02	10167
0. 72900E+00	0. 36450E-01	0. 15000E-02	0. 50000E-03	10186
0. 22130E-03	0. 81123E-05	0. 50000E-06	0. 12000E-06	10185
0. 61300E+02	0. 31000E+01	0. 24000E-01	0. 60000E-02	10188
0. 58891E-05	0. 28462E-06	0. 11070E-05	0. 59776E-06	10193
0. 90388E-03	0. 38394E-04	0. 13433E-03	0. 73883E-04	10194
0. 21236E-02	0. 82934E-04	0. 81919E-05	0. 57344E-06	10195
0. 50780E+00	0. 25390E-01	0. 43518E-03	0. 19583E-03	10200
0. 46043E+00	0. 23022E-01	0. 33014E-03	0. 20469E-03	10201
0. 26000E+02	0. 13000E+01	0. 23204E-02	0. 16243E-03	10202
0. 15652E+01	0. 78262E-01	0. 39087E-02	0. 58630E-03	10203
0. 29311E+00	0. 14656E-01	0. 57700E-02	0. 26542E-02	10204
0. 30546E-02	0. 21382E-03	0. 23734E-03	0. 14715E-03	10265
0. 68700E-03	0. 34350E-04	0. 35221E-05	0. 28177E-06	10266
0. 17070E-03	0. 85352E-05	0. 11900E-05	0. 47600E-06	10267
0. 97600E-04	0. 48800E-05	0. 12533E-05	0. 47626E-06	10268
0. 53800E+01	0. 26900E+00	0. 61000E-03	0. 29300E-03	10270
0. 32186E+01	0. 16093E+00	0. 43300E-01	0. 21650E-02	10271
0. 49527E+00	0. 24764E-01	0. 12842E-02	0. 38526E-03	10347
0. 10096E+01	0. 50480E-01	0. 12096E-01	0. 10887E-02	10385
0. 46800E-03	0. 23400E-04	0. 18319E-05	0. 45797E-06	10412
0. 11300E+01	0. 56502E-01	0. 35831E-02	0. 89579E-03	10416
0. 79306E+00	0. 39653E-01	0. 24252E-02	0. 87309E-03	10419
0. 36373E+00	0. 18187E-01	0. 40582E-02	0. 26378E-02	10424
0. 24100E-03	0. 12000E-04	0. 27485E-05	0. 13193E-05	10431
0. 11494E+02	0. 57472E+00	0. 10965E-01	0. 65793E-03	10478
0. 57919E+00	0. 28960E-01	0. 26384E-02	0. 13192E-02	10536
0. 32096E+02	0. 16048E+01	0. 32391E-02	0. 42108E-03	10582
0. 66198E+01	0. 33099E+00	0. 30565E-01	0. 30565E-02	10449
0. 17985E+01	0. 89926E-01	0. 76129E-02	0. 27407E-02	10451
0. 18712E+02	0. 93561E+00	0. 19207E-01	0. 30731E-02	10454
0. 14050E+02	0. 70250E+00	0. 15998E-01	0. 12798E-02	10493
0. 18600E-01	0. 93000E-03	0. 48464E-02	0. 21809E-02	10714
0. 11219E+03	0. 56096E+01	0. 10001E-01	0. 39003E-02	10698
0. 24763E+00	0. 12381E-01	0. 19454E-01	0. 10700E-01	10876

0. 19400E+01 0. 97000E-01 0. 13999E-02 0. 97991E-04

10878



## CORRELATION RESULTS

Nuclides Tested for Correlation are 60-CO and 63-NI

Test made on 15-SEP-84

Sorting Criteria are :

BWR

Number of entries in the fit is 215

Zero Offset Value, B0, is 2.62384E-06

Correlation Ratio, B1, is 5.69990E-02

Standard Deviation in B0 is 1.52744E-06

Standard Deviation in B1 is 1.21493E-02

F-TEST Value is 23.837

Confidence Level for this Correlation is: 99. %

BWR

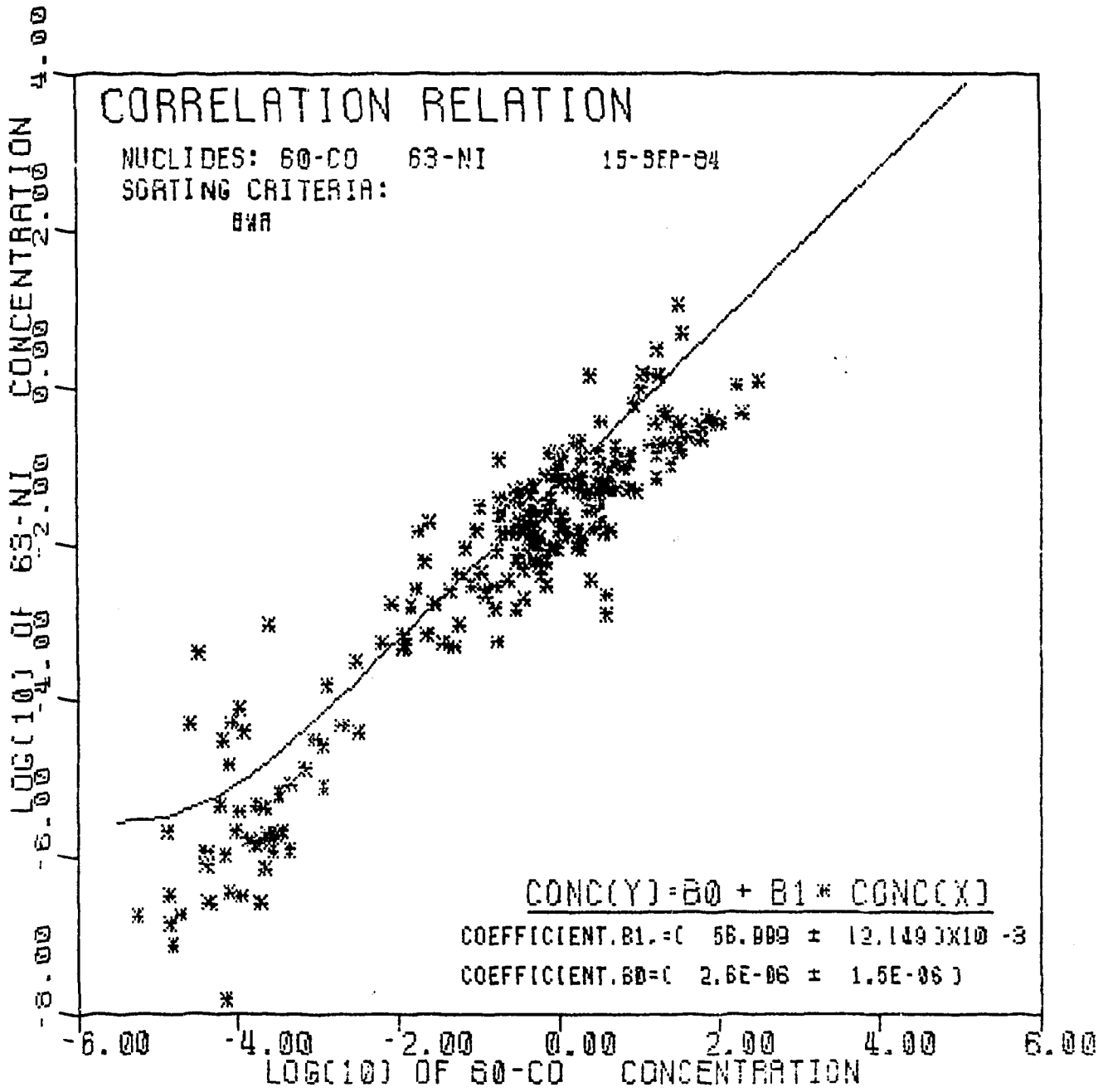
0. 12100E-02	0. 60500E-04	0. 78000E-05	0. 46800E-06	T050
0. 70900E-04	0. 35450E-05	0. 15600E-07	0. 17200E-08	7048
0. 22800E-03	0. 11400E-04	0. 42400E-05	0. 21200E-06	6826
0. 19600E-04	0. 10000E-05	0. 19000E-06	0. 12000E-06	T085
0. 38000E-03	0. 20000E-04	0. 21400E-05	0. 11000E-06	6366
0. 14000E-04	0. 70000E-06	0. 33000E-06	0. 43000E-07	T016
0. 79000E-04	0. 40000E-05	0. 15200E-04	0. 80000E-06	T037
0. 14400E-04	0. 72000E-06	0. 14600E-06	0. 38000E-07	T090
0. 69100E-04	0. 34550E-05	0. 10800E-05	0. 54000E-07	7392
0. 61800E-04	0. 31000E-05	0. 46000E-05	0. 23000E-06	7394
0. 13500E-04	0. 70000E-06	0. 21500E-05	0. 11000E-06	6975
0. 41800E-04	0. 21000E-05	0. 12000E-05	0. 60000E-07	7393
0. 45200E-04	0. 23000E-05	0. 26000E-06	0. 34000E-07	7656
0. 21100E-03	0. 10550E-04	0. 15900E-05	0. 11000E-06	7649
0. 14000E-03	0. 70000E-05	0. 17000E-05	0. 17000E-06	7651
0. 79000E-04	0. 40000E-05	0. 36000E-06	0. 50000E-07	T064
0. 15600E-04	0. 83000E-06	0. 76000E-07	0. 33000E-07	7169
0. 31000E+01	0. 20000E+00	0. 15000E+00	0. 13000E-01	T065
0. 10000E+01	0. 50000E-01	0. 66200E-01	0. 33100E-02	T086
0. 95000E+00	0. 90000E-01	0. 61100E-01	0. 57000E-02	T048
0. 73000E+00	0. 40000E-01	0. 31600E-01	0. 16000E-02	T066
0. 46000E-01	0. 23000E-02	0. 25900E-02	0. 23300E-03	T055
0. 34400E+01	0. 17200E+00	0. 53500E-01	0. 26800E-02	6789
0. 75800E+01	0. 38000E+00	0. 11200E+00	0. 56000E-02	6786
0. 22500E+01	0. 11250E+00	0. 44300E-01	0. 22200E-02	T117
0. 31300E+01	0. 16000E+00	0. 36900E-01	0. 18450E-02	7058
0. 38000E+01	0. 20000E+00	0. 13400E-01	0. 67000E-03	7063
0. 83000E+00	0. 41500E-01	0. 36500E-01	0. 18300E-02	T069
0. 78000E+01	0. 40000E+00	0. 13500E+00	0. 67500E-02	T092
0. 30800E+00	0. 15400E-01	0. 16400E-01	0. 82000E-03	6996
0. 44500E+01	0. 22250E+00	0. 14500E-01	0. 73000E-03	7401
0. 79000E+01	0. 40000E+00	0. 49800E-01	0. 25000E-02	6378
0. 31000E+02	0. 20000E+01	0. 19700E+00	0. 10000E-01	6813
0. 69000E+00	0. 40000E-01	0. 23800E-01	0. 11900E-02	6379
0. 37000E+01	0. 19000E+00	0. 65700E-01	0. 33000E-02	6812
0. 36700E+02	0. 18350E+01	0. 46300E+01	0. 23150E+00	7087
0. 19900E+01	0. 10000E+00	0. 70700E-01	0. 35350E-02	7088
0. 21200E+03	0. 10600E+02	0. 46400E+00	0. 23200E-01	T087
0. 53000E+01	0. 30000E+00	0. 17000E+00	0. 22000E-01	T010
0. 11000E+02	0. 10000E+01	0. 96000E+00	0. 48000E-01	T046
0. 30100E+01	0. 15050E+00	0. 28100E-01	0. 14050E-02	7062
0. 35500E+01	0. 18000E+00	0. 60300E-01	0. 30000E-03	7690
0. 57500E+02	0. 29000E+01	0. 32000E+00	0. 16000E-01	7686
0. 78800E+01	0. 39400E+00	0. 14000E+00	0. 70000E-02	7813
0. 99700E+00	0. 50000E-01	0. 10600E+00	0. 53000E-02	7913
0. 16700E+02	0. 83500E+00	0. 14100E+00	0. 70500E-02	7915
0. 23200E+02	0. 12000E+01	0. 43000E+00	0. 22000E-01	7449
0. 10900E+01	0. 54500E-01	0. 24000E-01	0. 12000E-02	7588
0. 54900E+00	0. 27450E-01	0. 92700E-02	0. 26900E-02	8002
0. 33700E+01	0. 17000E+00	0. 18900E-01	0. 10000E-02	7151
0. 34800E+01	0. 17400E+00	0. 36000E+00	0. 18000E+00	7150
0. 91400E+00	0. 46000E-01	0. 94300E-02	0. 47000E-03	7674
0. 32500E+03	0. 60300E+00	0. 11600E+01	0. 58000E-01	8023
0. 32000E+02	0. 20000E+01	0. 11000E+02	0. 10000E+01	T038
0. 70000E+00	0. 40000E-01	0. 29000E-02	0. 14500E-03	T007
0. 15500E+01	0. 80000E-01	0. 64100E-01	0. 32050E-02	T051
0. 12000E+00	0. 20000E-01	0. 26000E-02	0. 47000E-03	T054
0. 17300E+02	0. 25000E+01	0. 30000E+01	0. 15000E+00	T112
0. 90600E+02	0. 45300E+01	0. 39500E+00	0. 20000E-01	7450
0. 24800E+01	0. 12400E+00	0. 14100E+01	0. 70500E-01	7452
0. 25000E-01	0. 12500E-02	0. 18100E-01	0. 21700E-02	T070

0. 16700E+02	0. 83500E+00	0. 66700E-01	0. 33450E-02	T091
0. 18000E+00	0. 90000E-02	0. 12100E+00	0. 60000E-02	6792
0. 18500E+01	0. 92500E-01	0. 20400E+00	0. 10200E-01	6827
0. 62000E+00	0. 31000E-01	0. 41000E-02	0. 25000E-02	7448
0. 33860E-03	0. 16121E-04	0. 64000E-05	0. 20000E-05	9851
0. 18800E+00	0. 94000E-02	0. 38000E-01	0. 30000E-02	9365
0. 17000E+00	0. 85000E-02	0. 82000E-02	0. 41000E-03	9367
0. 17800E+03	0. 89000E+01	0. 10600E+01	0. 10000E+00	9117
0. 10100E+01	0. 50500E-01	0. 64000E-01	0. 14000E-01	9119
0. 19000E+01	0. 10000E+00	0. 84000E-02	0. 84000E-03	9800
0. 14300E+02	0. 71500E+00	0. 18000E+00	0. 10000E-01	7815
0. 18000E+01	0. 90000E+00	0. 10300E-01	0. 70000E-03	7816
0. 19200E+01	0. 10000E+00	0. 11700E-01	0. 70000E-03	7817
0. 32500E+00	0. 16250E-01	0. 73000E-02	0. 70000E-03	7818
0. 24900E+01	0. 12450E+00	0. 34000E-02	0. 60000E-03	7819
0. 19500E+01	0. 97500E-01	0. 12700E+00	0. 13000E-01	9332
0. 26500E-04	0. 13250E-05	0. 48700E-04	0. 30000E-05	9262
0. 38800E+01	0. 19400E+00	0. 22500E-02	0. 15000E-03	9263
0. 54200E+01	0. 27100E+00	0. 11800E+00	0. 10000E-01	9264
0. 34300E+02	0. 17150E+01	0. 33900E+00	0. 18000E-01	9806
0. 31300E+01	0. 15650E+00	0. 40800E-01	0. 25000E-02	9807
0. 43000E+01	0. 21500E+00	0. 49100E-01	0. 36000E-02	9808
0. 27970E-03	0. 13557E-04	0. 12430E-05	0. 60061E-06	9978
0. 12200E-01	0. 61000E-03	0. 52000E-03	0. 24000E-03	9980
0. 33900E+00	0. 16950E-01	0. 34400E-01	0. 17200E-02	9981
0. 80300E+02	0. 40150E+01	0. 35400E+00	0. 30000E-01	9982
0. 27900E+01	0. 13950E+00	0. 15400E-01	0. 20000E-02	9997
0. 35200E+02	0. 17600E+01	0. 15700E+00	0. 10000E-01	9998
0. 41200E+02	0. 20600E+01	0. 23100E+00	0. 11550E-01	9999
0. 43800E+01	0. 21900E+00	0. 82600E-01	0. 70000E-02	10000
0. 17800E+01	0. 89000E-01	0. 15200E-01	0. 76000E-03	10001
0. 14700E-01	0. 73500E-03	0. 15800E-02	0. 79000E-04	10084
0. 25900E-03	0. 18000E-04	0. 91500E-03	0. 45750E-04	10086
0. 13600E-02	0. 68000E-04	0. 16000E-03	0. 12000E-04	10087
0. 34700E-04	0. 12758E-05	0. 41000E-03	0. 20500E-04	10088
0. 37200E-01	0. 18600E-02	0. 53000E-03	0. 19000E-03	10162
0. 10900E+00	0. 20000E-01	0. 42300E-02	0. 21150E-03	10164
0. 17300E+00	0. 86500E-02	0. 56400E-03	0. 28200E-04	10165
0. 16400E+02	0. 82000E+00	0. 34500E+00	0. 17250E-01	10166
0. 90000E+01	0. 45000E+00	0. 60500E+00	0. 30250E-01	10167
0. 72900E+00	0. 36450E-01	0. 57500E-02	0. 40000E-03	10186
0. 22130E-03	0. 81123E-05	0. 71500E-06	0. 43000E-07	10185
0. 61300E+02	0. 31000E+01	0. 21500E+00	0. 11000E-01	10188
0. 58891E-05	0. 28462E-06	0. 17871E-06	0. 10544E-06	10193
0. 90388E-03	0. 38394E-04	0. 32854E-04	0. 65843E-05	10194
0. 21236E-02	0. 82934E-04	0. 48036E-04	0. 58765E-05	10195
0. 50780E+00	0. 25390E-01	0. 12458E-01	0. 62290E-03	10200
0. 46043E+00	0. 23022E-01	0. 12162E-01	0. 60811E-03	10201
0. 26000E+02	0. 13000E+01	0. 10284E+00	0. 51420E-02	10202
0. 15652E+01	0. 78262E-01	0. 20118E+00	0. 10059E-01	10203
0. 29311E+00	0. 14656E-01	0. 46644E-01	0. 23322E-02	10204
0. 57599E-01	0. 28799E-02	0. 90993E-03	0. 90993E-04	10229
0. 10930E-03	0. 74623E-05	0. 38280E-05	0. 16059E-05	10259
0. 12600E+00	0. 63000E-02	0. 21465E-02	0. 38637E-03	10261
0. 11663E-03	0. 55095E-05	0. 32277E-06	0. 35505E-07	10262
0. 17630E-01	0. 88150E-03	0. 26327E-02	0. 13163E-03	10264
0. 30546E-02	0. 21382E-03	0. 30853E-03	0. 24682E-04	10265
0. 68700E-03	0. 34350E-04	0. 13645E-04	0. 68225E-06	10266
0. 17070E-03	0. 85352E-05	0. 14826E-05	0. 74130E-07	10267
0. 97600E-04	0. 48800E-05	0. 21500E-05	0. 10750E-06	10268
0. 59499E+00	0. 29750E-01	0. 53472E-02	0. 26736E-03	10269
0. 53800E+01	0. 26900E+00	0. 52100E-01	0. 26050E-02	10270
0. 32186E+01	0. 16093E+00	0. 10193E+00	0. 50967E-02	10271

0. 49764E-01	0. 24982E-02	0. 48219E-03	0. 81972E-04	10318
0. 37522E+00	0. 18761E-01	0. 47444E-02	0. 23722E-03	10319
0. 39570E+01	0. 19785E+00	0. 12916E-02	0. 64580E-04	10320
0. 33692E-03	0. 16369E-04	0. 67142E-05	0. 34213E-05	10345
0. 49527E+00	0. 24764E-01	0. 56088E-01	0. 28044E-02	10347
0. 27214E+01	0. 13607E+00	0. 38500E-01	0. 61600E-02	10348
0. 95689E+01	0. 47845E+00	0. 47123E-01	0. 23561E-02	10384
0. 10096E+01	0. 50480E-01	0. 14438E-01	0. 72190E-03	10385
0. 11933E-01	0. 59665E-03	0. 45427E-03	0. 95397E-04	10386
0. 33824E+01	0. 16912E+00	0. 46601E-01	0. 23301E-02	10407
0. 33024E+00	0. 16512E-01	0. 20143E-01	0. 10072E-02	10408
0. 71902E+00	0. 35951E-01	0. 75544E-01	0. 37772E-02	10409
0. 65200E-04	0. 32600E-05	0. 30600E-04	0. 49000E-05	10410
0. 46800E-03	0. 23400E-04	0. 82800E-05	0. 39700E-05	10412
0. 25485E+00	0. 12743E-01	0. 13614E-01	0. 68070E-03	10414
0. 19301E+00	0. 96505E-02	0. 13771E-01	0. 68855E-03	10415
0. 11300E+01	0. 56502E-01	0. 16940E-01	0. 84700E-03	10416
0. 78500E+00	0. 39250E-01	0. 84150E-02	0. 42075E-03	10417
0. 13301E+01	0. 66507E-01	0. 13029E-01	0. 65146E-03	10418
0. 79306E+00	0. 39653E-01	0. 14270E+00	0. 71350E-02	10419
0. 10900E-03	0. 54400E-05	0. 78000E-04	0. 46800E-05	10420
0. 86800E-04	0. 43400E-05	0. 51600E-04	0. 46500E-05	10422
0. 36373E+00	0. 18187E-01	0. 49175E-01	0. 24588E-02	10424
0. 97861E+00	0. 48930E-01	0. 87463E-02	0. 52478E-03	10425
0. 13326E+01	0. 66630E-01	0. 54421E-01	0. 27211E-02	10426
0. 95615E-01	0. 47808E-02	0. 14843E-01	0. 74215E-03	10427
0. 10689E+00	0. 53445E-02	0. 30340E-01	0. 15170E-02	10428
0. 24100E-03	0. 12000E-04	0. 20364E-05	0. 24437E-06	10431
0. 30746E+00	0. 15373E-01	0. 58801E-02	0. 15876E-02	10433
0. 55003E+00	0. 27502E-01	0. 10160E-01	0. 91438E-03	10434
0. 11494E+02	0. 57472E+00	0. 14678E+01	0. 73391E-01	10478
0. 43240E+00	0. 21620E-01	0. 26155E-01	0. 13078E-02	10479
0. 83141E-01	0. 41571E-02	0. 29376E-02	0. 14688E-03	10494
0. 45984E+00	0. 22972E-01	0. 22000E-01	0. 11000E-02	10495
0. 46173E+00	0. 36938E-01	0. 97694E-02	0. 48847E-03	10496
0. 43023E+00	0. 21512E-01	0. 18801E-01	0. 94006E-03	10497
0. 47971E+00	0. 23986E-01	0. 19444E-01	0. 97220E-03	10498
0. 24071E+00	0. 12036E-01	0. 33498E-02	0. 50247E-03	10499
0. 28657E-01	0. 14329E-02	0. 17007E-02	0. 39116E-03	10500
0. 19362E-03	0. 83399E-05	0. 26526E-06	0. 42441E-07	10482
0. 85024E-02	0. 42512E-03	0. 16922E-02	0. 84610E-04	10484
0. 11631E-01	0. 58155E-03	0. 69846E-03	0. 48892E-04	10485
0. 12264E-03	0. 61320E-05	0. 40164E-04	0. 44180E-05	10486
0. 12436E-01	0. 62180E-03	0. 51362E-03	0. 30817E-04	10487
0. 11395E+01	0. 56975E-01	0. 13285E+00	0. 66425E-02	10488
0. 18989E+00	0. 94946E-02	0. 22545E-01	0. 11273E-02	10507
0. 21912E+02	0. 10956E+01	0. 18768E+00	0. 93840E-02	10508
0. 30245E+02	0. 15123E+01	0. 30678E+00	0. 15339E-01	10509
0. 76319E+02	0. 38160E+01	0. 43694E+00	0. 21847E-01	10510
0. 49509E+00	0. 24755E-01	0. 14496E-01	0. 72480E-03	10511
0. 57919E+00	0. 28960E-01	0. 11429E-01	0. 57145E-03	10536
0. 24314E-01	0. 12157E-02	0. 69847E-03	0. 34924E-04	10538
0. 18055E+00	0. 90276E-02	0. 23983E-01	0. 19186E-02	10539
0. 29997E-03	0. 14432E-04	0. 19174E-05	0. 21091E-06	10579
0. 32096E+02	0. 16048E+01	0. 14713E+00	0. 73565E-02	10582
0. 66198E+01	0. 33099E+00	0. 90562E-01	0. 45281E-02	10449
0. 29575E+01	0. 14787E+00	0. 57801E-01	0. 28901E-02	10450
0. 17985E+01	0. 89926E-01	0. 47832E-01	0. 23916E-02	10451
0. 18078E+02	0. 90390E+00	0. 18687E+00	0. 93435E-02	10452
0. 18712E+02	0. 93561E+00	0. 13540E+01	0. 67700E-01	10454
0. 42674E+00	0. 21337E-01	0. 81393E-02	0. 40697E-03	10492
0. 14050E+02	0. 70250E+00	0. 14435E+01	0. 72177E-01	10493
0. 23030E+01	0. 11515E+00	0. 27013E-01	0. 13507E-02	10540



0.69816E-01	0.34908E-03	0.87254E-02	0.43627E-03	10541
0.11516E-02	0.57580E-04	0.27600E-04	0.41399E-05	10542
0.17698E-03	0.88492E-05	0.45312E-05	0.22657E-06	10543
0.33218E-02	0.16609E-03	0.38941E-04	0.42835E-05	10544
0.42310E-04	0.21155E-05	0.80925E-06	0.80925E-07	10545
0.21800E-01	0.10900E-02	0.60423E-02	0.54381E-03	10546
0.56932E-01	0.28466E-02	0.41517E-02	0.37365E-03	10547
0.64478E-02	0.32239E-03	0.52774E-03	0.32720E-03	10548
0.11911E+01	0.59556E-01	0.17166E-01	0.85831E-03	10549
0.16106E+00	0.80532E-02	0.15013E-02	0.75064E-04	10601
0.52443E+00	0.26222E-01	0.60494E-02	0.30247E-03	10602
0.46356E-03	0.17710E-04	0.12695E-05	0.10156E-06	10706
0.21197E+02	0.10599E+01	0.48217E+00	0.24108E-01	10709
0.46256E+00	0.41631E-01	0.43583E-01	0.21791E-02	10710
0.54495E+00	0.27247E-01	0.25718E-01	0.12859E-02	10711
0.95003E+00	0.47501E-01	0.79149E-01	0.39575E-02	10712
0.51243E+00	0.25622E-01	0.98775E-02	0.49387E-03	10713
0.18600E-01	0.93000E-03	0.14312E-01	0.71561E-03	10714
0.32486E+00	0.16243E-01	0.14579E-01	0.72895E-03	10715
0.37897E+00	0.18949E-01	0.13303E-01	0.66516E-03	10716
0.95432E+00	0.47716E-01	0.14869E+00	0.14869E-01	10717
0.29837E+00	0.14918E-01	0.14529E-02	0.27606E-03	10696
0.17432E+01	0.87160E-01	0.89340E-02	0.62538E-03	10697
0.11219E+03	0.56096E+01	0.33446E+00	0.16723E-01	10698
0.38020E+00	0.19010E-01	0.19499E-02	0.17549E-03	10699
0.16557E+00	0.82787E-02	0.28430E-02	0.16205E-02	10813
0.24763E+00	0.12381E-01	0.35525E-01	0.28420E-02	10876
0.19400E+01	0.97000E-01	0.70018E-01	0.35007E-02	10878



## CORRELATION RESULTS

Nuclides Tested for Correlation are 60-CO and 14-C

Test made on 15-SEP-84

Sorting Criteria are :

BWR

Number of entries in the fit is 109

Zero Offset Value, B0, is -2.89108E-08

Correlation Ratio, B1, is 3.52057E-02

Standard Deviation in B0 is 7.78326E-07

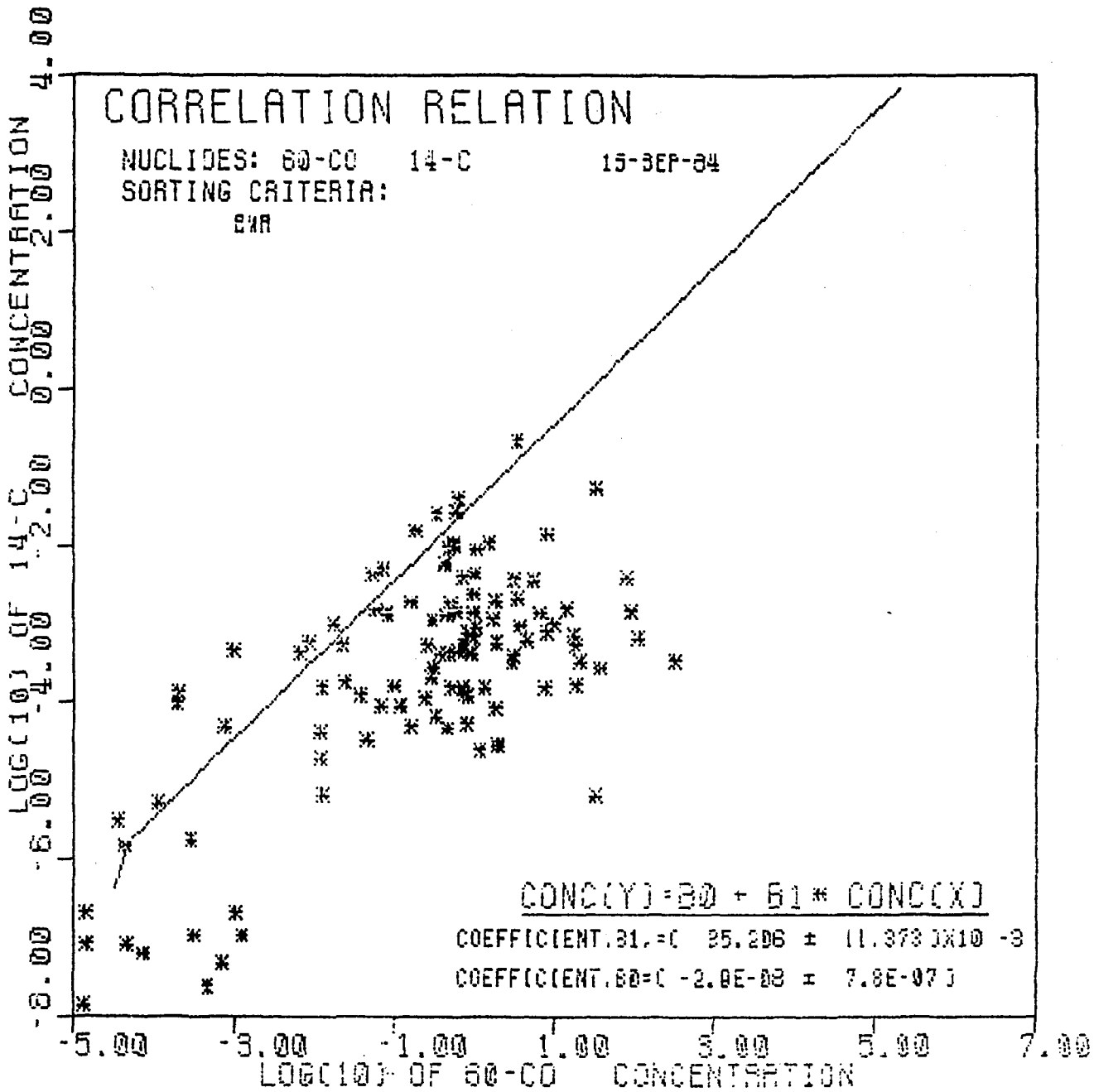
Standard Deviation in B1 is 1.13729E-02

F-TEST Value is 10.424

Confidence Level for this Correlation is: 99. %

0. 12100E-02	0. 60500E-04	0. 11000E-06	0. 47000E-07	T050
0. 70900E-04	0. 35450E-05	0. 65000E-07	0. 45500E-08	7048
0. 14000E-04	0. 70000E-06	0. 21600E-06	0. 11000E-07	T016
0. 14400E-04	0. 72000E-06	0. 86700E-07	0. 43400E-08	T090
0. 13500E-04	0. 70000E-06	0. 14000E-07	0. 49000E-08	6975
0. 41800E-04	0. 21000E-05	0. 15200E-05	0. 76000E-07	7393
0. 35000E-04	0. 30000E-05	0. 31400E-05	0. 15700E-06	T017
0. 45200E-04	0. 23000E-05	0. 83900E-07	0. 42000E-08	7656
0. 73000E+00	0. 40000E-01	0. 13000E-03	0. 29000E-04	T066
0. 46000E-01	0. 23000E-02	0. 33000E-04	0. 12000E-04	T055
0. 34400E+01	0. 17200E+00	0. 21600E-02	0. 13000E-03	6789
0. 75800E+01	0. 38000E+00	0. 16000E-03	0. 26000E-04	6786
0. 31300E+01	0. 16000E+00	0. 41000E-03	0. 45000E-04	7058
0. 65000E-01	0. 32500E-02	0. 90000E-04	0. 47000E-04	T004
0. 83000E+00	0. 41500E-01	0. 12400E-03	0. 43400E-04	T069
0. 30800E+00	0. 15400E-01	0. 28300E-03	0. 17000E-04	6996
0. 44500E+01	0. 22250E+00	0. 61500E-03	0. 31000E-04	7401
0. 79000E+01	0. 40000E+00	0. 14200E-01	0. 71000E-03	6378
0. 69000E+00	0. 40000E-01	0. 40600E-02	0. 20300E-03	6379
0. 37000E+01	0. 19000E+00	0. 96000E-03	0. 17000E-03	6812
0. 36700E+02	0. 18350E+01	0. 28000E-03	0. 31000E-04	7087
0. 19900E+01	0. 10000E+00	0. 30000E-04	0. 81000E-05	7088
0. 30100E+01	0. 15050E+00	0. 38000E-02	0. 50000E-03	7062
0. 78800E+01	0. 39400E+00	0. 82000E-03	0. 41000E-04	7813
0. 99700E+00	0. 50000E-01	0. 44600E-02	0. 22300E-03	7913
0. 54900E+00	0. 27450E-01	0. 99300E-02	0. 17900E-03	8002
0. 91400E+00	0. 46000E-01	0. 41900E-03	0. 25000E-04	7674
0. 32500E+03	0. 60300E+00	0. 35000E-03	0. 46000E-04	8023
0. 32000E+02	0. 20000E+01	0. 54000E-01	0. 27000E-02	T038
0. 15500E+01	0. 80000E-01	0. 11000E-01	0. 22000E-02	T051
0. 12000E+00	0. 20000E-01	0. 91000E-04	0. 14000E-04	T054
0. 17300E+02	0. 25000E+01	0. 72000E-03	0. 17000E-03	T112
0. 90600E+02	0. 45300E+01	0. 15000E-02	0. 20000E-03	7450
0. 18000E+00	0. 90000E-02	0. 15400E-01	0. 77000E-03	6792
0. 18500E+01	0. 92500E-01	0. 20000E-02	0. 78000E-03	6827
0. 62000E+00	0. 31000E-01	0. 41000E-01	0. 37000E-02	7448
0. 10100E+01	0. 50500E-01	0. 90000E-02	0. 45000E-03	9119
0. 29000E+00	0. 14500E-01	0. 21200E-03	0. 89000E-04	9799
0. 19000E+01	0. 10000E+00	0. 57000E-03	0. 68000E-04	9800
0. 27970E-03	0. 13557E-04	0. 18110E-05	0. 80002E-06	9978
0. 12200E-01	0. 61000E-03	0. 16000E-03	0. 50000E-04	9980
0. 33900E+00	0. 16950E-01	0. 25800E-01	0. 12900E-02	9981
0. 80300E+02	0. 40150E+01	0. 40000E-02	0. 50000E-03	9982
0. 19000E-03	0. 95000E-05	0. 10000E-03	0. 20000E-04	10085
0. 37200E-01	0. 18600E-02	0. 12700E-03	0. 13000E-04	10162
0. 72900E+00	0. 36450E-01	0. 55000E-03	0. 23000E-03	10186
0. 50780E+00	0. 25390E-01	0. 16207E-03	0. 77795E-04	10200
0. 10930E-03	0. 74623E-05	0. 52879E-05	0. 16392E-05	10259
0. 17630E-01	0. 88150E-03	0. 99376E-03	0. 49688E-04	10264
0. 68700E-03	0. 34350E-04	0. 49232E-07	0. 13785E-07	10266
0. 59499E+00	0. 29750E-01	0. 26766E-01	0. 13383E-02	10269
0. 53800E+01	0. 26900E+00	0. 36300E-02	0. 18200E-03	10270
0. 49527E+00	0. 24764E-01	0. 43667E-03	0. 65501E-04	10347
0. 95689E+01	0. 47845E+00	0. 10190E-02	0. 10190E-03	10384
0. 10076E+01	0. 50480E-01	0. 90891E-03	0. 45446E-04	10385
0. 11933E-01	0. 59665E-03	0. 19500E-04	0. 79950E-05	10386
0. 33824E+01	0. 16912E+00	0. 22113E+00	0. 11057E-01	10407
0. 33024E+00	0. 16512E-01	0. 66562E-04	0. 33281E-04	10408
0. 71902E+00	0. 35951E-01	0. 16280E-03	0. 30932E-04	10409
0. 78500E+00	0. 39250E-01	0. 77819E-03	0. 54473E-04	10417
0. 13301E+01	0. 66507E-01	0. 15827E-03	0. 26906E-04	10418

0. 79306E+00	0. 39653E-01	0. 54470E-04	0. 27780E-04	10419
0. 97861E+00	0. 48930E-01	0. 68507E-03	0. 16442E-03	10425
0. 95615E-01	0. 47808E-02	0. 16349E-03	0. 49048E-04	10427
0. 43240E+00	0. 21620E-01	0. 57749E-02	0. 28875E-03	10479
0. 83141E-01	0. 41571E-02	0. 13591E-02	0. 67955E-04	10494
0. 45984E+00	0. 22992E-01	0. 13057E-02	0. 65285E-04	10495
0. 46173E+00	0. 36938E-01	0. 48410E-04	0. 11618E-04	10496
0. 24071E+00	0. 12036E-01	0. 11891E-03	0. 77294E-04	10499
0. 19362E-03	0. 83399E-05	0. 13861E-03	0. 69305E-05	10482
0. 85024E-02	0. 42512E-03	0. 58735E-03	0. 29368E-04	10484
0. 11631E-01	0. 58155E-03	0. 42725E-04	0. 46997E-05	10485
0. 12436E-01	0. 62180E-03	0. 66100E-05	0. 34372E-05	10487
0. 57919E+00	0. 28960E-01	0. 14095E-02	0. 70475E-04	10536
0. 62001E+00	0. 31001E-01	0. 45347E-03	0. 22674E-04	10537
0. 24314E-01	0. 12157E-02	0. 18875E-03	0. 94376E-05	10538
0. 29997E-03	0. 14432E-04	0. 11007E-06	0. 41828E-07	10579
0. 32096E+02	0. 16048E+01	0. 66182E-05	0. 13236E-05	10582
0. 66198E+01	0. 33099E+00	0. 14117E-02	0. 70585E-04	10449
0. 29575E+01	0. 14787E+00	0. 35094E-03	0. 56150E-04	10450
0. 17985E+01	0. 89926E-01	0. 86781E-04	0. 25167E-04	10451
0. 18078E+02	0. 90390E+00	0. 55213E-03	0. 38649E-04	10452
0. 50865E-01	0. 25432E-02	0. 44230E-02	0. 14154E-02	10453
0. 18712E+02	0. 93561E+00	0. 17152E-03	0. 68607E-04	10454
0. 10157E-02	0. 39573E-04	0. 21437E-06	0. 76906E-07	10455
0. 42674E+00	0. 21337E-01	0. 61073E-02	0. 30537E-03	10492
0. 14050E+02	0. 70250E+00	0. 16100E-02	0. 80500E-04	10493
0. 69816E-01	0. 34908E-02	0. 51529E-02	0. 25765E-03	10541
0. 21800E-01	0. 10900E-02	0. 54766E-03	0. 16977E-03	10546
0. 56932E-01	0. 28466E-02	0. 15246E-02	0. 76232E-04	10547
0. 64478E-02	0. 32239E-03	0. 43143E-03	0. 17257E-03	10548
0. 11911E+01	0. 59556E-01	0. 25222E-04	0. 50444E-05	10549
0. 76116E-03	0. 38058E-04	0. 49661E-04	0. 14402E-04	10550
0. 96205E-03	0. 44668E-04	0. 47909E-03	0. 20255E-04	10599
0. 16106E+00	0. 80532E-02	0. 51120E-04	0. 25560E-05	10601
0. 52443E+00	0. 26222E-01	0. 19432E-02	0. 97160E-04	10602
0. 46356E-03	0. 17710E-04	0. 25323E-07	0. 55711E-08	10706
0. 21197E+02	0. 10599E+01	0. 33970E-03	0. 30573E-04	10709
0. 46256E+00	0. 41631E-01	0. 95546E-02	0. 47773E-03	10710
0. 54495E+00	0. 27247E-01	0. 11086E-01	0. 55429E-03	10711
0. 95432E+00	0. 47716E-01	0. 24122E-02	0. 94075E-03	10717
0. 29837E+00	0. 14918E-01	0. 11301E-02	0. 56507E-04	10696
0. 17432E+01	0. 87160E-01	0. 12030E-02	0. 60151E-04	10697
0. 11219E+03	0. 56096E+01	0. 66643E-03	0. 33321E-04	10698
0. 38020E+00	0. 19010E-01	0. 43037E-03	0. 21518E-04	10699
0. 16557E+00	0. 82787E-02	0. 19330E-02	0. 96649E-04	10813
0. 97985E+00	0. 48993E-01	0. 14189E-02	0. 85136E-04	10814
0. 24763E+00	0. 12381E-01	0. 54648E-03	0. 24592E-03	10876
0. 19400E+01	0. 97000E-01	0. 27880E-04	0. 47400E-05	10878



## CORRELATION RESULTS

Nuclides Tested for Correlation are 60-CO and 55-FE

Test made on 15-SEP-84

Sorting Criteria are :

PWR

Number of entries in the fit is 103

Zero Offset Value, B0, is 1.89890E-06

Correlation Ratio, B1, is 5.38249E-01

Standard Deviation in B0 is 2.02334E-06

Standard Deviation in B1 is 8.69225E-02

F-TEST Value is 60.649

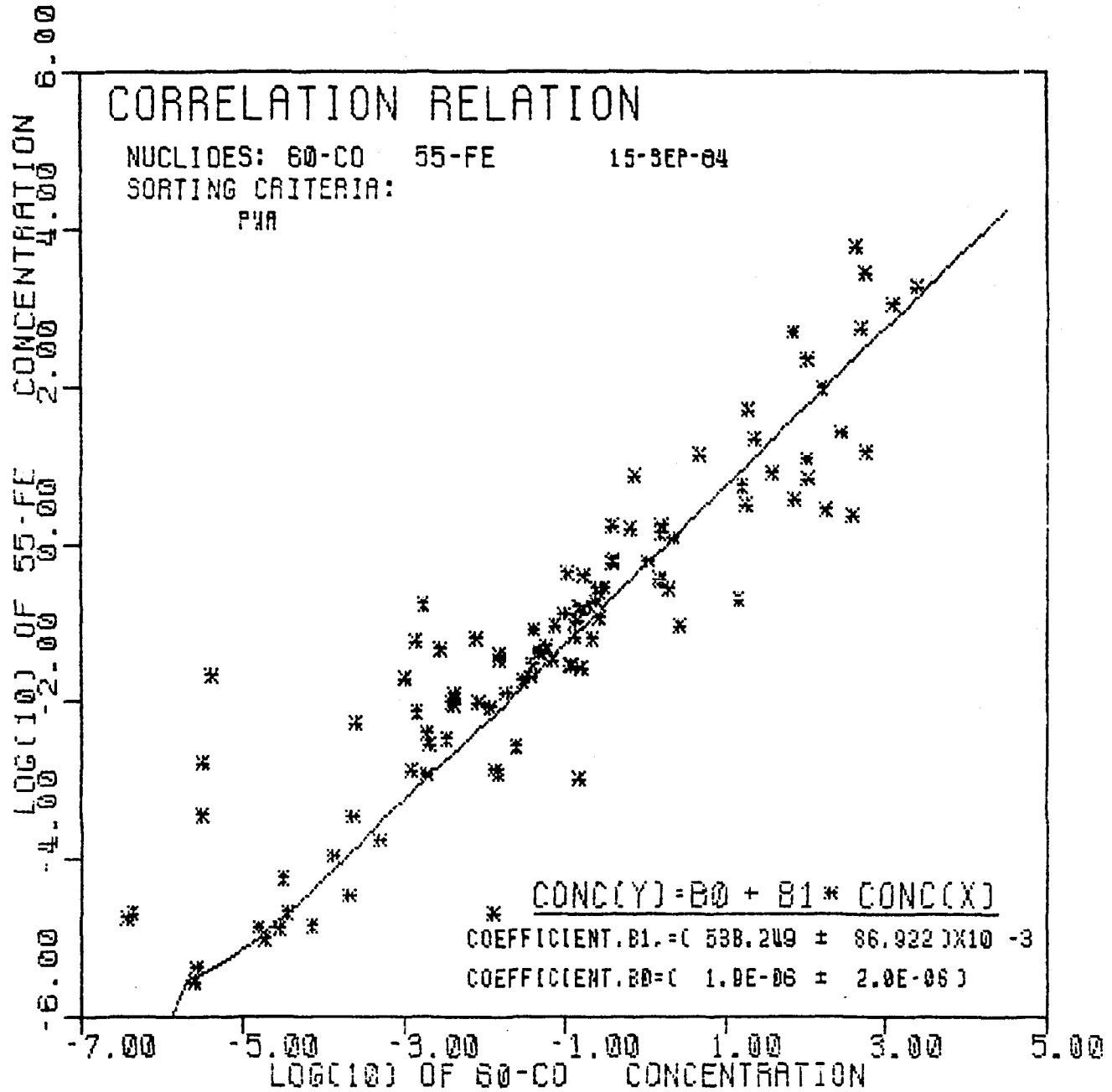
Confidence Level for this Correlation is: 99. %

PWR

0. 10800E+03	0. 54000E+01	0. 66900E+01	0. 33450E+00	10246
0. 41130E+00	0. 20565E-01	0. 64100E+00	0. 32050E-01	10247
0. 32246E+00	0. 16123E-06	0. 37400E-03	0. 15708E-03	10273
0. 24775E+05	0. 12388E-01	0. 27400E+00	0. 68500E-01	10274
0. 19465E+02	0. 11679E+01	0. 50000E+02	0. 65000E+01	10293
0. 27015E+00	0. 13508E-01	0. 11800E+00	0. 10600E-01	10294
0. 15413E+01	0. 77065E-01	0. 36700E+00	0. 33000E-01	10295
0. 32686E-05	0. 16343E-06	0. 16800E-02	0. 10100E-03	10296
0. 41291E-05	0. 33033E-06	0. 22000E-01	0. 22000E-02	10297
0. 73100E+02	0. 36550E+01	0. 49000E+03	0. 24500E+02	10298
0. 17809E-02	0. 12466E-03	0. 17500E+00	0. 12300E-01	10299
0. 73354E-01	0. 36677E-02	0. 92100E-01	0. 46100E-02	10300
0. 50265E-03	0. 23186E-04	0. 17527E-03	0. 12269E-04	10388
0. 24591E-01	0. 12276E-02	0. 27196E-02	0. 13578E-03	10377
0. 18569E+02	0. 92845E+00	0. 31910E+01	0. 15955E+00	10399
0. 16782E+02	0. 83911E+00	0. 56190E+01	0. 28095E+00	10400
0. 19400E-02	0. 97100E-04	0. 12100E-01	0. 60400E-04	10401
0. 39300E-02	0. 19650E-03	0. 10087E-01	0. 50436E-03	10402
0. 12651E-02	0. 63255E-04	0. 13488E-02	0. 67439E-04	10403
0. 13410E-01	0. 67050E-03	0. 14065E-02	0. 12659E-03	10404
0. 46716E-01	0. 23358E-02	0. 44100E-01	0. 22050E-02	10405
0. 29248E-04	0. 14624E-05	0. 13519E-04	0. 54075E-05	10462
0. 14062E+00	0. 70311E-02	0. 10623E+00	0. 53117E-02	10466
0. 37063E-01	0. 18532E-02	0. 20582E-01	0. 16465E-02	10467
0. 18670E-01	0. 93351E-03	0. 13100E-01	0. 11790E-02	10468
0. 35807E-04	0. 34292E-05	0. 21685E-04	0. 24309E-05	10457
0. 15684E-04	0. 11360E-05	0. 13934E-04	0. 25341E-05	10458
0. 18456E-04	0. 12589E-05	0. 10126E-04	0. 79117E-06	10459
0. 72968E-04	0. 36484E-05	0. 14708E-04	0. 10296E-05	10472
0. 25566E-05	0. 12783E-06	0. 28623E-05	0. 20036E-06	10473
0. 22432E+01	0. 11216E+00	0. 12200E+01	0. 85400E-01	10476
0. 22265E+00	0. 11133E-01	0. 64500E-01	0. 12900E-01	10290
0. 45126E+03	0. 22563E+02	0. 58200E+04	0. 29100E+03	10304
0. 28360E-02	0. 79409E-03	0. 47000E-01	0. 70500E-02	10305
0. 10500E-02	0. 52500E-04	0. 19800E-01	0. 11880E-02	10303
0. 79059E-02	0. 39530E-03	0. 65100E-01	0. 65100E-02	10306
0. 31801E+00	0. 15901E-01	0. 28500E+00	0. 42750E-01	10302
0. 57289E+03	0. 28645E+02	0. 27000E+04	0. 67500E+03	10406
0. 23500E-03	0. 11750E-04	0. 35200E-03	0. 10208E-03	10329
0. 11500E-01	0. 92000E-03	0. 87100E-02	0. 69680E-03	10349
0. 57700E-01	0. 28850E-02	0. 51500E-01	0. 25750E-02	10350
0. 43200E-02	0. 30240E-03	0. 12900E-01	0. 77400E-03	10351
0. 15663E+01	0. 78315E-01	0. 13816E+01	0. 69080E-01	10352
0. 73519E+00	0. 36759E-01	0. 73800E+01	0. 36900E+00	10353
0. 14581E-02	0. 10207E-03	0. 58498E-01	0. 46799E-02	10354
0. 14702E-02	0. 29404E-03	0. 75077E-02	0. 90092E-03	10358
0. 33670E-02	0. 57239E-03	0. 34707E-02	0. 11453E-02	10361
0. 41481E-02	0. 20741E-03	0. 93776E-02	0. 93776E-03	10362
0. 19641E-02	0. 35354E-03	0. 39729E-02	0. 75485E-03	10363
0. 58843E+03	0. 29422E+02	0. 15116E+02	0. 75580E+00	10391
0. 52088E+03	0. 26044E+02	0. 54830E+03	0. 27415E+02	10392
0. 24834E+04	0. 12417E+03	0. 18575E+04	0. 92877E+02	10393
0. 24319E+02	0. 12160E+01	0. 21815E+02	0. 10908E+01	10394
0. 29092E+03	0. 14546E+02	0. 26549E+02	0. 13275E+01	10395
0. 10908E+03	0. 54542E+01	0. 22500E+03	0. 11250E+02	10396
0. 98516E-01	0. 49258E-02	0. 13100E+00	0. 65500E-02	10397
0. 83535E-02	0. 41768E-03	0. 99261E-02	0. 89335E-03	10398
0. 47780E-01	0. 23890E-02	0. 41375E-01	0. 74476E-02	10443
0. 11870E+00	0. 59350E-02	0. 29035E-01	0. 14518E-02	10444
0. 73447E+02	0. 36724E+01	0. 37230E+01	0. 48398E+00	10445
0. 10616E+03	0. 53081E+01	0. 12333E+02	0. 11099E+01	10446



0. 39173E+03	0. 19587E+02	0. 23100E+01	0. 30030E+00	10447
0. 15469E-01	0. 77346E-03	0. 38787E-01	0. 34908E-02	10448
0. 19399E+01	0. 23279E+00	0. 27338E+00	0. 19136E-01	10556
0. 19759E+00	0. 98795E-02	0. 17360E+00	0. 15624E-01	10551
0. 15397E+00	0. 76985E-02	0. 16311E+00	0. 81555E-02	10552
0. 43651E-06	0. 21180E-07	0. 20843E-04	0. 60443E-05	10559
0. 37404E-06	0. 29188E-07	0. 18355E-04	0. 42217E-05	10561
0. 12216E-01	0. 61082E-03	0. 20718E-04	0. 53866E-05	10563
0. 16700E+03	0. 83500E+01	0. 94800E+02	0. 47400E+01	10569
0. 40600E+02	0. 20300E+01	0. 80700E+01	0. 40400E+00	10570
0. 18506E+03	0. 92531E+01	0. 27913E+01	0. 39078E+00	10571
0. 14800E+02	0. 74000E+00	0. 19600E+00	0. 98000E-02	10572
0. 20900E-02	0. 10500E-03	0. 28600E-02	0. 25700E-03	10573
0. 13490E+00	0. 67450E-02	0. 68190E-01	0. 68190E-02	10574
0. 27300E+00	0. 13700E-01	0. 24300E+00	0. 12200E-01	10575
0. 26800E+01	0. 13400E+00	0. 91500E-01	0. 45800E-02	10576
0. 69300E-01	0. 34700E-02	0. 33600E-01	0. 20200E-02	10577
0. 38822E+00	0. 19411E-01	0. 16800E+01	0. 20160E+00	10578
0. 47246E+01	0. 23623E+00	0. 13424E+02	0. 67120E+00	10604
0. 12277E+00	0. 61385E-02	0. 28611E-01	0. 14306E-02	10605
0. 13300E-03	0. 66500E-05	0. 11025E-03	0. 77173E-05	10596
0. 11000E+01	0. 66000E-01	0. 61296E+00	0. 42907E-01	10681
0. 16300E+00	0. 39120E-01	0. 26400E-01	0. 15840E-02	10682
0. 25600E-03	0. 12800E-04	0. 52700E-02	0. 68510E-03	10683
0. 39600E+00	0. 19800E-01	0. 57800E+00	0. 40460E-01	10684
0. 15531E+00	0. 77656E-02	0. 10620E-02	0. 12744E-03	10553
0. 24140E+00	0. 12070E-01	0. 19231E+00	0. 25000E-01	10554
0. 14672E-01	0. 73358E-03	0. 11996E-02	0. 10797E-03	10555
0. 31558E-04	0. 15779E-05	0. 58934E-04	0. 53040E-05	10645
0. 27423E-05	0. 13712E-06	0. 43800E-05	0. 43800E-06	10646
0. 15577E+01	0. 77886E-01	0. 35009E+00	0. 17505E-01	10647
0. 12604E+04	0. 63022E+02	0. 11200E+04	0. 23520E+03	10672
0. 20845E-03	0. 82854E-05	0. 34747E-04	0. 17374E-05	10727
0. 16336E+01	0. 81682E-01	0. 17570E+01	0. 26354E+00	10729
0. 38707E-01	0. 19354E-02	0. 29555E-01	0. 17733E-02	10730
0. 41058E-01	0. 20529E-02	0. 83404E-01	0. 91745E-02	10731
0. 66619E+00	0. 33309E-01	0. 15817E+01	0. 11072E+00	10732
0. 29543E-01	0. 14772E-02	0. 18615E-01	0. 14892E-02	10808
0. 17500E+00	0. 87500E-02	0. 40300E+00	0. 20150E-01	10809
0. 15416E-01	0. 77081E-03	0. 34800E-01	0. 24360E-02	10810
0. 16418E+00	0. 82092E-02	0. 16277E+00	0. 14649E-01	10811
0. 10861E+00	0. 34303E-02	0. 43500E+00	0. 34800E-01	10812



## CORRELATION RESULTS

Nuclides Tested for Correlation are 60-CO and 59-NI

Test made on 15-SEP-84

Sorting Criteria are :

PWR

Number of entries in the fit is 111

Zero Offset Value, B0, is 5.72407E-07

Correlation Ratio, B1, is 1.15796E-02

Standard Deviation in B0 is 6.95515E-07

Standard Deviation in B1 is 4.50036E-03

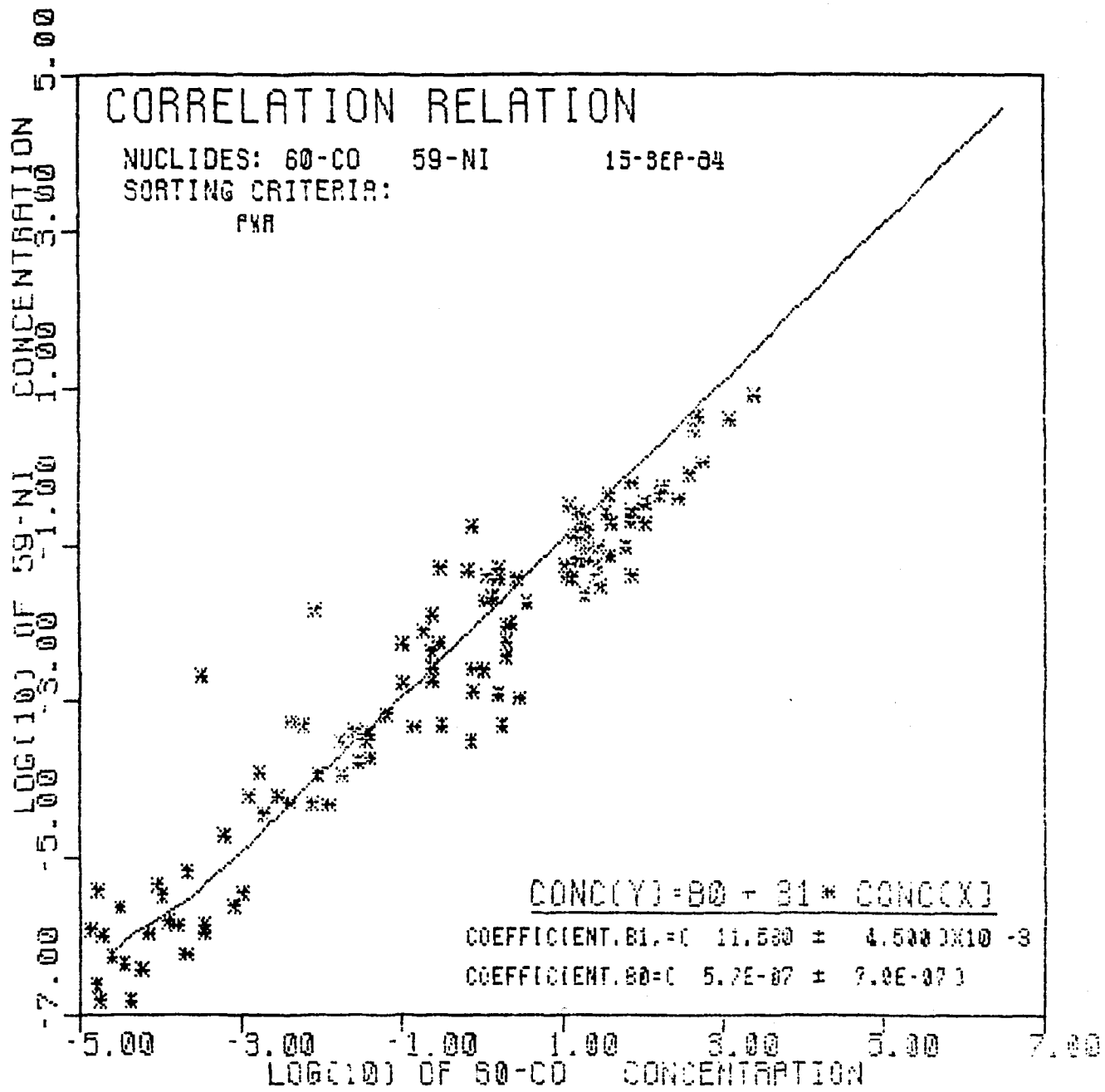
F-TEST Value is 6.915

Confidence Level for this Correlation is: 99. %

PWR

0. 12800E-03	0. 64000E-05	0. 16000E-05	0. 20000E-06	7269
0. 24400E-04	0. 12200E-05	0. 57000E-06	0. 17000E-06	7267
0. 70000E-04	0. 40000E-05	0. 11100E-05	0. 47700E-06	6956
0. 16500E-03	0. 83000E-05	0. 14000E-05	0. 20000E-06	7268
0. 35400E-03	0. 17700E-04	0. 11400E-05	0. 16000E-06	6955
0. 81000E-03	0. 40500E-04	0. 25000E-05	0. 13000E-05	6725
0. 93100E-04	0. 47000E-05	0. 46000E-05	0. 12000E-05	6729
0. 63000E-03	0. 31500E-04	0. 19700E-04	0. 18000E-05	T089
0. 17100E-02	0. 86000E-04	0. 12500E-03	0. 13000E-04	7131
0. 17600E-04	0. 90000E-06	0. 16000E-06	0. 25600E-07	7440
0. 43800E-04	0. 28000E-05	0. 15400E-06	0. 12300E-07	7567
0. 21700E-03	0. 11000E-04	0. 69000E-05	0. 44000E-05	7562
0. 10600E-03	0. 53000E-05	0. 34000E-05	0. 11000E-05	7917
0. 72700E+00	0. 36350E-01	0. 32000E-03	0. 83000E-04	9502
0. 34420E-03	0. 15594E-04	0. 14400E-05	0. 61900E-06	9509
0. 33400E-03	0. 17000E-03	0. 21000E-02	0. 60000E-03	T071
0. 10300E+00	0. 51500E-02	0. 17000E-02	0. 90000E-03	T072
0. 77000E+00	0. 40000E-01	0. 17000E+00	0. 30000E-01	6958
0. 29000E+00	0. 14500E-01	0. 56000E-02	0. 23000E-02	T077
0. 10500E+00	0. 52500E-02	0. 54000E-02	0. 25900E-02	7402
0. 23700E+00	0. 15000E-01	0. 12500E-01	0. 78600E-02	7445
0. 12300E+02	0. 61500E+00	0. 31400E+00	0. 15700E-01	10007
0. 65000E-01	0. 32500E-02	0. 70000E-03	0. 10000E-03	10010
0. 18200E+00	0. 91000E-02	0. 80000E-02	0. 10000E-02	10011
0. 73400E+02	0. 37000E+01	0. 41000E-01	0. 12000E-01	7153
0. 20000E+01	0. 10000E+00	0. 38000E-02	0. 10000E-02	T035
0. 11100E+02	0. 55500E+00	0. 56000E-01	0. 90000E-02	T043
0. 13400E+01	0. 70000E-01	0. 21000E-01	0. 78000E-02	7593
0. 63600E+02	0. 32000E+01	0. 91600E-01	0. 82000E-02	7196
0. 28600E+02	0. 14300E+01	0. 93900E-01	0. 58000E-02	10108
0. 21200E+02	0. 10600E+01	0. 15100E+00	0. 46000E-01	10109
0. 26600E-01	0. 13300E-02	0. 44100E-03	0. 18000E-03	10110
0. 26100E+02	0. 13050E+01	0. 40300E-01	0. 15000E-01	10114
0. 19100E+02	0. 95500E+00	0. 23900E-01	0. 76000E-02	10115
0. 17400E-01	0. 87000E-03	0. 31100E-03	0. 22000E-04	10138
0. 16000E+01	0. 80000E-01	0. 50400E-01	0. 25200E-02	10140
0. 57400E-04	0. 21333E-05	0. 38900E-06	0. 19000E-06	10137
0. 11805E+01	0. 59027E-01	0. 40511E-01	0. 20255E-02	10207
0. 23430E+00	0. 16401E-01	0. 43901E-02	0. 35121E-03	10208
0. 36205E+02	0. 18103E+01	0. 24877E+00	0. 12439E-01	10209
0. 93273E-02	0. 46184E-03	0. 11623E-03	0. 26555E-04	10206
0. 13127E-04	0. 29728E-05	0. 12633E-05	0. 18950E-06	10205
0. 15951E-04	0. 79755E-06	0. 39548E-05	0. 21356E-05	10214
0. 10800E+03	0. 54000E+01	0. 18700E+00	0. 93500E-02	10246
0. 73300E+00	0. 36650E-01	0. 26269E-02	0. 44658E-03	10233
0. 10100E+01	0. 50500E-01	0. 25257E-02	0. 15154E-03	10234
0. 14400E+02	0. 72000E+00	0. 12416E+00	0. 62080E-02	10237
0. 73900E+02	0. 36950E+01	0. 61728E+00	0. 30864E-01	10238
0. 40703E+02	0. 20352E+01	0. 71300E-01	0. 36000E-02	10286
0. 27155E+02	0. 13578E+01	0. 54400E-01	0. 27200E-02	10287
0. 62530E-02	0. 31265E-03	0. 51000E-03	0. 22000E-03	10289
0. 17706E+01	0. 88531E-01	0. 49566E-03	0. 59479E-04	10312
0. 19465E+02	0. 11679E+01	0. 61300E-01	0. 36780E-02	10293
0. 73100E+02	0. 36550E+01	0. 19900E+00	0. 99500E-02	10298
0. 18569E+02	0. 92845E+00	0. 17989E+00	0. 89747E-02	10399
0. 16782E+02	0. 83911E+00	0. 96568E-01	0. 48284E-02	10400
0. 19400E-02	0. 97100E-04	0. 37200E-04	0. 15600E-04	10401
0. 39300E-02	0. 19650E-03	0. 51498E-04	0. 16994E-04	10402
0. 12651E-02	0. 63255E-04	0. 64286E-04	0. 30857E-04	10403
0. 14062E+00	0. 70311E-02	0. 47964E-03	0. 43168E-04	10466
0. 37063E-01	0. 18532E-02	0. 32132E-03	0. 35345E-04	10467

0. 18670E-01	0. 93351E-03	0. 11435E-03	0. 36592E-04	10468
0. 35807E-04	0. 34292E-05	0. 45612E-06	0. 18701E-06	10457
0. 15684E-04	0. 11360E-05	0. 25407E-06	0. 13466E-06	10458
0. 18456E-04	0. 12589E-05	0. 10377E-05	0. 28017E-06	10459
0. 22432E+01	0. 11216E+00	0. 99000E-02	0. 37620E-02	10476
0. 19544E+01	0. 97720E-01	0. 57100E-02	0. 17701E-02	10258
0. 23417E+00	0. 11709E-01	0. 26764E-02	0. 24088E-03	10284
0. 45126E+03	0. 22563E+02	0. 29700E+01	0. 14850E+00	10304
0. 10500E-02	0. 52500E-04	0. 36900E-05	0. 84870E-06	10303
0. 79059E-02	0. 39530E-03	0. 50400E-04	0. 95760E-05	10306
0. 31801E+00	0. 15901E-01	0. 49800E-03	0. 17928E-03	10302
0. 57289E+03	0. 28645E+02	0. 11422E+01	0. 57110E-01	10406
0. 15972E+02	0. 79860E+00	0. 24986E+00	0. 12493E-01	10387
0. 43200E-02	0. 30240E-03	0. 56095E-03	0. 26365E-03	10351
0. 73519E+00	0. 36759E-01	0. 13400E-02	0. 60300E-03	10353
0. 52088E+03	0. 26044E+02	0. 42667E+01	0. 68267E+00	10392
0. 24834E+04	0. 12417E+03	0. 80385E+01	0. 40192E+00	10393
0. 24319E+02	0. 12160E+01	0. 92070E-01	0. 16573E-01	10394
0. 29092E+03	0. 14546E+02	0. 38433E+00	0. 23060E-01	10395
0. 10908E+03	0. 54542E+01	0. 34100E+00	0. 17050E-01	10396
0. 83535E-02	0. 41768E-03	0. 14796E-01	0. 36990E-02	10398
0. 30285E+00	0. 15143E-01	0. 50548E-01	0. 12132E-01	10437
0. 11394E+02	0. 56970E+00	0. 39239E-01	0. 43163E-02	10438
0. 13369E+02	0. 66845E+00	0. 37158E-01	0. 33442E-02	10439
0. 35955E+01	0. 17978E+00	0. 18136E-01	0. 41712E-02	10440
0. 73447E+02	0. 36724E+01	0. 27587E+00	0. 13794E-01	10445
0. 10616E+03	0. 53081E+01	0. 34701E+00	0. 17351E-01	10446
0. 39173E+03	0. 19587E+02	0. 80700E+00	0. 40350E-01	10447
0. 19399E+01	0. 23279E+00	0. 92771E-02	0. 74217E-03	10556
0. 12216E-01	0. 61082E-03	0. 47859E-04	0. 12443E-04	10563
0. 16700E+03	0. 83500E+01	0. 44500E+00	0. 22500E-01	10569
0. 40600E+02	0. 20300E+01	0. 44100E+00	0. 22100E-01	10570
0. 18506E+03	0. 92531E+01	0. 56340E+00	0. 28170E-01	10571
0. 14800E+02	0. 74000E+00	0. 65100E-01	0. 52100E-02	10572
0. 26800E+01	0. 13400E+00	0. 38000E-01	0. 19000E-02	10576
0. 11000E+01	0. 66000E-01	0. 19200E-01	0. 53760E-02	10681
0. 24140E+00	0. 12070E-01	0. 18429E-02	0. 20271E-03	10554
0. 31558E-04	0. 15779E-05	0. 23876E-05	0. 45365E-06	10645
0. 15577E+01	0. 77886E-01	0. 12290E-02	0. 79882E-03	10647
0. 12604E+04	0. 63022E+02	0. 39800E+01	0. 19900E+00	10672
0. 29269E+01	0. 14634E+00	0. 11117E-02	0. 88934E-04	10758
0. 28229E-02	0. 14115E-03	0. 61644E-04	0. 13562E-04	10759
0. 42791E+02	0. 21395E+01	0. 18256E+00	0. 91280E-02	10761
0. 31227E+02	0. 15614E+01	0. 29646E-01	0. 38540E-02	10762
0. 20845E-03	0. 82854E-05	0. 59691E-06	0. 27458E-06	10727
0. 16336E+01	0. 81682E-01	0. 35866E-01	0. 17933E-02	10729
0. 38707E-01	0. 19354E-02	0. 38917E-03	0. 38917E-04	10730
0. 41058E-01	0. 20529E-02	0. 19015E-03	0. 11409E-04	10731
0. 66619E+00	0. 33309E-01	0. 46264E-01	0. 37011E-02	10732
0. 29543E-01	0. 14772E-02	0. 16965E-03	0. 25448E-04	10808



## CORRELATION RESULTS

Nuclides tested for Correlation are 60-CO and 63-NI

Test made on 15-SEP-84

Sorting Criteria are :

PWR

Number of entries in the fit is 300

Zero Offset Value, B0, is 6.49335E-07

Correlation Ratio, B1, is 3.27295E-01

Standard Deviation in B0 is 6.20794E-07

Standard Deviation in B1 is 2.98822E-02

F-TEST Value is 198.276

Confidence Level for this Correlation is: 99. %

## PWR

0.12800E-03	0.64000E-05	0.90000E-04	0.45000E-05	7269
0.24400E-04	0.12200E-05	0.35000E-04	0.18000E-05	7267
0.70000E-04	0.40000E-05	0.31200E-04	0.15600E-05	6956
0.16500E-03	0.83000E-05	0.57200E-04	0.28600E-05	7268
0.35400E-03	0.17700E-04	0.10100E-03	0.50500E-05	6955
0.90000E-05	0.50000E-06	0.35200E-05	0.31700E-06	6724
0.81000E-03	0.40500E-04	0.12100E-03	0.60500E-05	6725
0.93100E-04	0.47000E-05	0.11200E-03	0.56000E-05	6729
0.49500E-05	0.65000E-06	0.16800E-05	0.10100E-06	6730
0.63000E-03	0.31500E-04	0.14900E-03	0.75000E-05	T089
0.44000E-05	0.22000E-06	0.39000E-06	0.19500E-07	6855
0.13200E-03	0.66000E-05	0.32600E-03	0.16300E-04	7164
0.17100E-02	0.86000E-04	0.10000E-01	0.50000E-03	7131
0.64700E-05	0.32350E-06	0.32800E-04	0.16000E-05	7050
0.16700E-04	0.83500E-06	0.99600E-05	0.50000E-06	6843
0.52800E-05	0.26400E-06	0.58500E-05	0.29200E-06	7049
0.14000E-04	0.10000E-05	0.15700E-05	0.78000E-07	6842
0.59500E-04	0.30000E-05	0.36000E-04	0.18000E-05	7655
0.15300E-04	0.80000E-06	0.15000E-04	0.77000E-06	7897
0.14800E-04	0.80000E-06	0.37000E-04	0.19000E-05	7924
0.17600E-04	0.90000E-06	0.91700E-05	0.45900E-06	7440
0.43800E-04	0.28000E-05	0.10200E-04	0.50800E-06	7567
0.21700E-03	0.11000E-04	0.10600E-03	0.53000E-05	7562
0.50800E-05	0.25400E-06	0.20100E-05	0.10000E-06	7654
0.57500E-05	0.29000E-06	0.65500E-05	0.33000E-06	8025
0.10600E-03	0.53000E-05	0.24100E-03	0.12050E-04	7917
0.16100E-04	0.12000E-05	0.73100E-05	0.36600E-06	7385
0.15400E-03	0.80000E-05	0.28900E-04	0.14450E-05	7386
0.33900E-05	0.17000E-06	0.34500E-05	0.17200E-06	8026
0.97600E+03	0.48800E+02	0.20200E+03	0.10100E+02	9034
0.10000E-01	0.10000E-02	0.18000E-02	0.40000E-03	9652
0.72700E+00	0.36350E-01	0.65400E-01	0.33000E-02	9502
0.60400E-02	0.67000E-03	0.26000E-02	0.29000E-03	9504
0.61000E+00	0.30500E-01	0.20100E+00	0.10000E-01	9507
0.34420E-03	0.15594E-04	0.10700E-03	0.53500E-05	9509
0.12700E+00	0.63500E-02	0.72000E-02	0.14000E-02	9510
0.25000E-01	0.30000E-02	0.37000E+00	0.30000E-01	8316
0.48000E+00	0.30000E-01	0.10700E+00	0.53500E-02	9122
0.66000E-03	0.33000E-04	0.34000E-03	0.20000E-04	9805
0.12300E-01	0.61500E-03	0.24600E-02	0.12300E-03	9213
0.33400E-03	0.17000E-03	0.16000E+00	0.80000E-02	T071
0.10300E+00	0.51500E-02	0.76500E-01	0.38250E-02	T072
0.12800E+00	0.64000E-02	0.72600E-01	0.36300E-02	T073
0.62700E+02	0.31350E+01	0.14200E+02	0.14000E+01	8470
0.11100E-02	0.55500E-04	0.25000E-02	0.30000E-03	8472
0.37000E-01	0.20000E-02	0.77000E-02	0.80000E-03	8473
0.77000E+00	0.40000E-01	0.25400E+00	0.13000E-01	6958
0.10100E+00	0.51000E-02	0.50000E-01	0.75000E-02	7285
0.61100E-03	0.31000E-04	0.21000E-03	0.76000E-04	6957
0.11000E-02	0.10000E-03	0.41000E-03	0.15000E-03	6961
0.29000E+00	0.14500E-01	0.60100E-01	0.30050E-02	T077
0.10500E+00	0.52500E-02	0.15100E-01	0.10600E-02	7402
0.38700E+01	0.19350E+00	0.36300E+00	0.18200E-01	7149
0.10800E+01	0.54000E-01	0.15800E-01	0.79000E-03	T095
0.35000E-02	0.20000E-02	0.32000E-02	0.30000E-03	T040
0.27000E-02	0.13500E-03	0.16000E-02	0.16000E-03	6852
0.97100E-01	0.48550E-02	0.31300E-01	0.15700E-02	7689
0.43700E-01	0.22000E-02	0.71000E-02	0.85000E-03	8014
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0.19800E-02	0.99000E-04	0.87000E-02	0.60000E-03	7188
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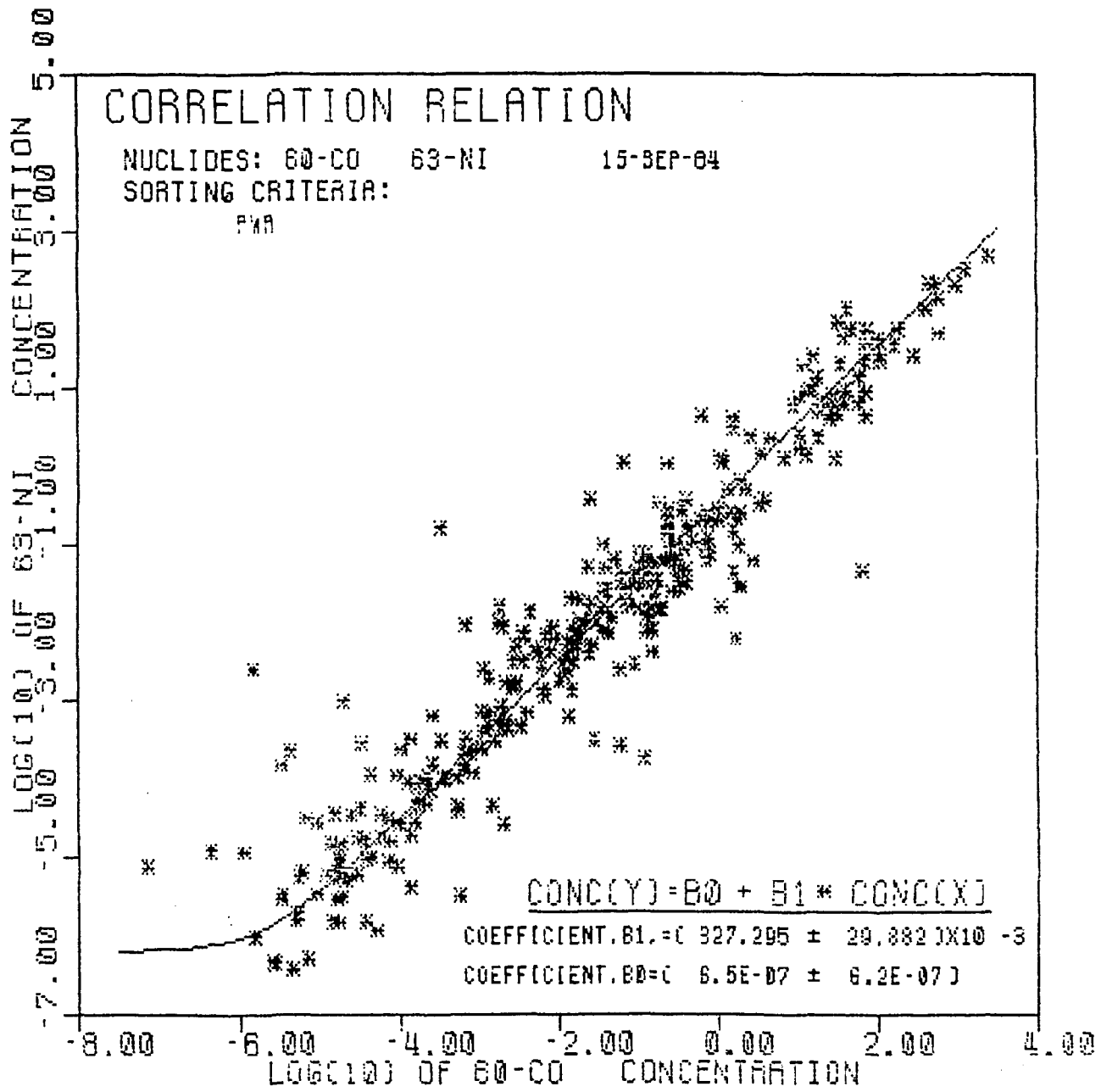


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0. 16300E+00	0. 39120E-01	0. 23000E-01	0. 11500E-02	10682
0. 25600E-03	0. 12800E-04	0. 65500E-03	0. 32750E-04	10683
0. 39600E+00	0. 19800E-01	0. 36400E+00	0. 18200E-01	10684
0. 15531E+00	0. 77656E-02	0. 78282E-02	0. 39141E-03	10553
0. 24140E+00	0. 12070E-01	0. 13546E+00	0. 67730E-02	10554
0. 14672E-01	0. 73358E-03	0. 13775E-02	0. 68874E-04	10555
0. 31558E-04	0. 15779E-05	0. 43628E-04	0. 21814E-05	10645
0. 27423E-05	0. 13712E-06	0. 46092E-06	0. 23046E-07	10646
0. 15577E+01	0. 77886E-01	0. 14390E+00	0. 71951E-02	10647
0. 12604E+04	0. 63022E+02	0. 32800E+03	0. 16400E+02	10672
0. 29269E+01	0. 14634E+00	0. 61138E-01	0. 30569E-02	10758
0. 28229E-02	0. 14115E-03	0. 48969E-02	0. 24484E-03	10759
0. 33229E-02	0. 53166E-03	0. 47588E-03	0. 23794E-04	10760
0. 42791E+02	0. 21395E+01	0. 91640E+01	0. 45820E+00	10761
0. 31227E+02	0. 15614E+01	0. 12790E+01	0. 63949E-01	10762
0. 20845E-03	0. 82854E-05	0. 48023E-04	0. 18870E-03	10727
0. 16336E+01	0. 81682E-01	0. 41858E+01	0. 20929E+00	10729
0. 38707E-01	0. 19354E-02	0. 48549E-01	0. 24274E-02	10730
0. 41058E-01	0. 20529E-02	0. 25380E-01	0. 12690E-02	10731
0. 66619E+00	0. 33309E-01	0. 43001E+01	0. 21500E+00	10732
0. 29543E-01	0. 14772E-02	0. 11056E-01	0. 55280E-03	10808
0. 17500E+00	0. 87500E-02	0. 33766E-01	0. 16883E-02	10809
0. 15416E-01	0. 77081E-03	0. 32200E-02	0. 16100E-03	10810
0. 10861E+00	0. 54303E-02	0. 32134E-01	0. 16067E-02	10812



## CORRELATION RESULTS

Nuclides Tested for Correlation are 60-CO and 94-NB

Test made on 18-OCT-84

Sorting Criteria are :

PWR

Number of entries in the fit is 25

Zero Offset Value, B0, is  $-9.62457E-08$

Correlation Ratio, B1, is  $2.32820E-04$

Standard Deviation in B0 is  $1.89387E-07$

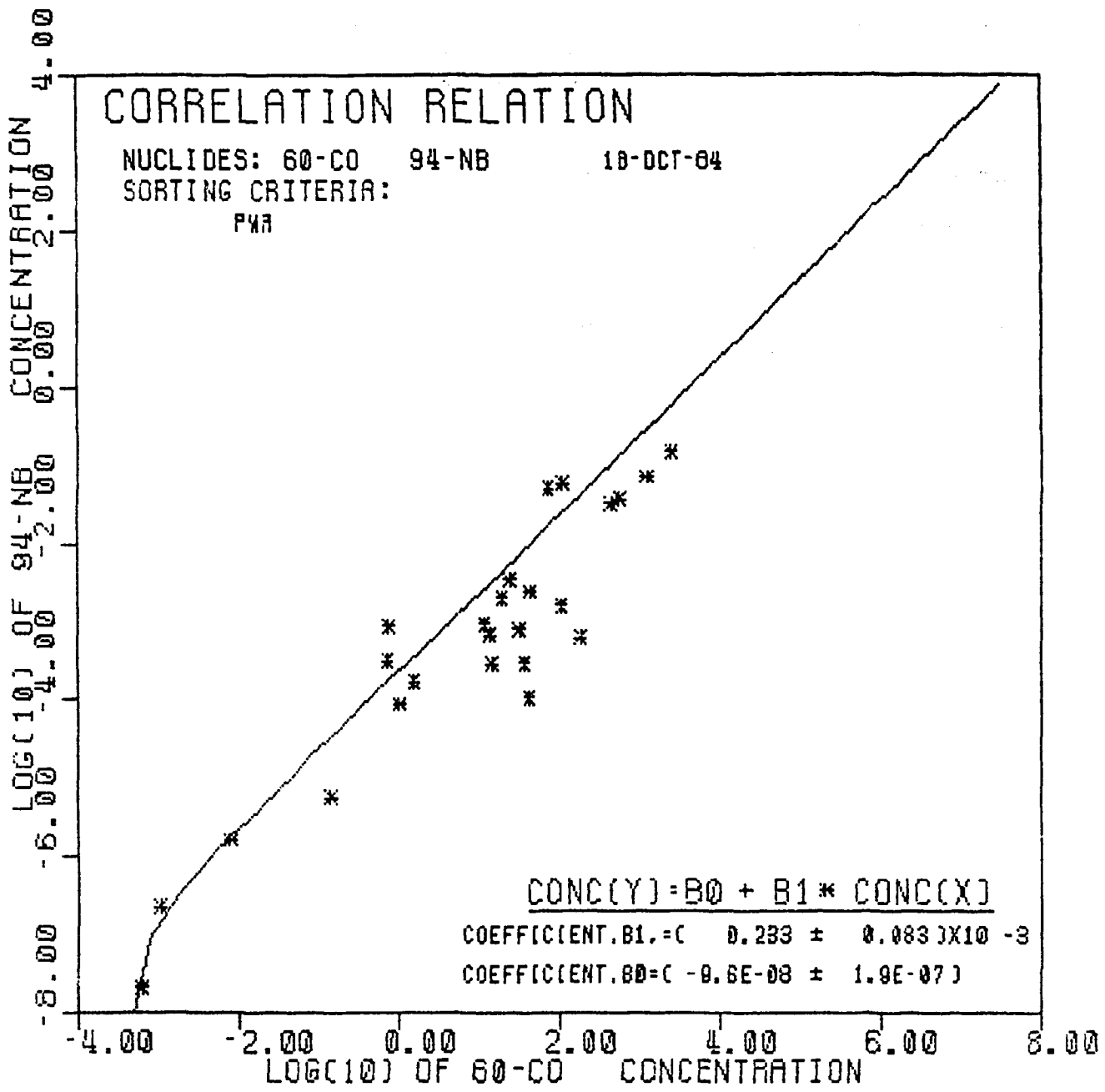
Standard Deviation in B1 is  $8.31521E-05$

F-TEST Value is 11.241

Confidence Level for this Correlation is: 99. %

PWR

0. 63000E-03	0. 31500E-04	0. 21600E-07	0. 11000E-08	T089
0. 72700E+00	0. 36350E-01	0. 31200E-03	0. 22000E-04	9502
0. 19100E+02	0. 95500E+00	0. 20300E-02	0. 20300E-03	10115
0. 36205E+02	0. 18103E+01	0. 30000E-03	0. 30000E-04	10209
0. 73300E+00	0. 36650E-01	0. 86500E-03	0. 43300E-04	10233
0. 10100E+01	0. 50500E-01	0. 89500E-04	0. 44800E-05	10234
0. 14400E+02	0. 72000E+00	0. 29000E-03	0. 37700E-04	10237
0. 40703E+02	0. 20352E+01	0. 10900E-03	0. 32700E-04	10286
0. 73100E+02	0. 36550E+01	0. 50500E-01	0. 25300E-02	10298
0. 14062E+00	0. 70311E-02	0. 56700E-05	0. 85100E-06	10466
0. 45126E+03	0. 22563E+02	0. 32800E-01	0. 16400E-02	10304
0. 10500E-02	0. 52500E-04	0. 22700E-06	0. 18200E-07	10303
0. 79059E-02	0. 39530E-03	0. 16400E-05	0. 10200E-05	10306
0. 57289E+03	0. 28645E+02	0. 36200E-01	0. 18100E-02	10406
0. 24834E+04	0. 12417E+03	0. 14900E+00	0. 74500E-02	10393
0. 24319E+02	0. 12160E+01	0. 34600E-02	0. 10400E-02	10394
0. 10908E+03	0. 54542E+01	0. 57400E-01	0. 28700E-02	10396
0. 11394E+02	0. 56970E+00	0. 93900E-03	0. 25300E-03	10438
0. 13369E+02	0. 66845E+00	0. 67200E-03	0. 33600E-04	10439
0. 10616E+03	0. 53081E+01	0. 16300E-02	0. 81500E-04	10446
0. 18506E+03	0. 92531E+01	0. 62800E-03	0. 75400E-04	10571
0. 15577E+01	0. 77886E-01	0. 16700E-03	0. 53400E-04	10647
0. 12604E+04	0. 63022E+02	0. 72000E-01	0. 36000E-02	10672
0. 42791E+02	0. 21395E+01	0. 24400E-02	0. 21960E-03	10761
0. 31227E+02	0. 15614E+01	0. 81700E-03	0. 40850E-04	10762





## CORRELATION RESULTS

Nuclides Tested for Correlation are 60-CO and 14-C

Test made on 17-SEP-84

Sorting Criteria are :

PWR

Number of entries in the fit is 259

Zero Offset Value, B0, is 1.52257E-07

Correlation Ratio, B1, is 6.50588E-02

Standard Deviation in B0 is 2.00540E-07

Standard Deviation in B1 is 1.77952E-02

F-TEST Value is 13.990

Confidence Level for this Correlation is: 99. %

## PWR

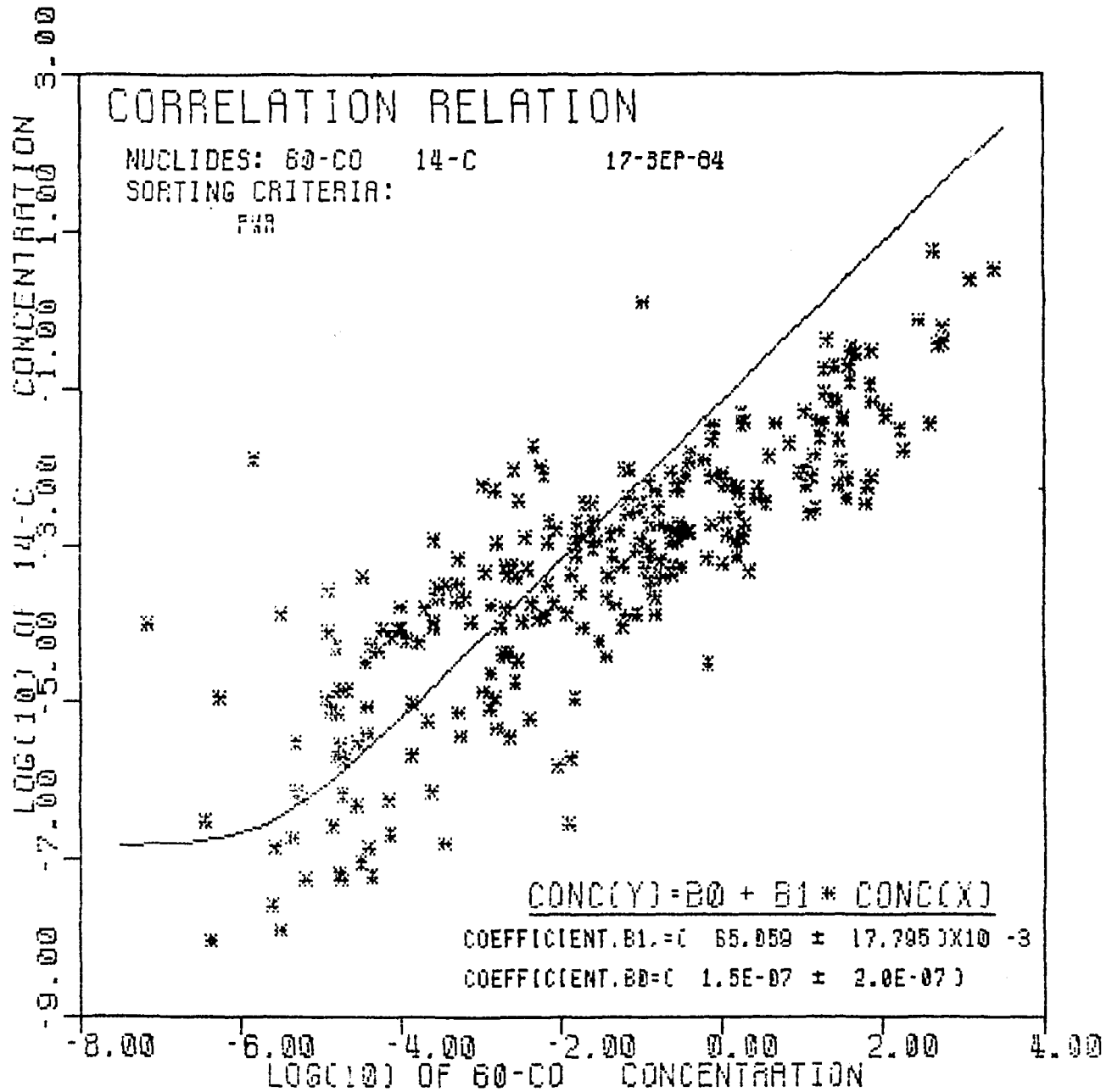
0. 70000E-04	0. 40000E-05	0. 58300E-06	0. 29200E-07	6956
0. 49500E-05	0. 65000E-06	0. 31600E-05	0. 15800E-06	6730
0. 44000E-05	0. 22000E-06	0. 18900E-06	0. 94500E-08	6855
0. 64700E-05	0. 32350E-06	0. 56100E-07	0. 50000E-08	7050
0. 14000E-04	0. 10000E-05	0. 27500E-06	0. 14000E-07	6842
0. 17600E-04	0. 90000E-06	0. 67700E-07	0. 33900E-08	7440
0. 43800E-04	0. 28000E-05	0. 61400E-07	0. 30700E-08	7567
0. 50800E-05	0. 25400E-06	0. 73300E-06	0. 37000E-07	7654
0. 57500E-05	0. 29000E-06	0. 60000E-06	0. 30000E-07	8025
0. 16100E-04	0. 12000E-05	0. 20600E-05	0. 10300E-06	7385
0. 72700E+00	0. 36350E-01	0. 32300E-01	0. 16150E-02	9502
0. 60400E-02	0. 67000E-03	0. 81100E-02	0. 41000E-03	9504
0. 61000E+00	0. 30500E-01	0. 12200E-01	0. 61000E-03	9507
0. 34420E-03	0. 15594E-04	0. 16400E-06	0. 98200E-08	9509
0. 12700E+00	0. 63500E-02	0. 65600E-02	0. 33000E-03	9510
0. 12800E+00	0. 64000E-02	0. 38000E-03	0. 76000E-04	T073
0. 24000E-02	0. 50000E-03	0. 57000E-03	0. 60000E-04	9245
0. 26400E-03	0. 13200E-04	0. 29000E-03	0. 88000E-04	7292
0. 77000E+00	0. 40000E-01	0. 22000E-01	0. 60000E-02	6958
0. 10000E-03	0. 70000E-05	0. 86000E-04	0. 43000E-04	6960
0. 25500E-03	0. 13000E-04	0. 12000E-02	0. 12000E-03	7288
0. 10100E+00	0. 51000E-02	0. 12300E+01	0. 62000E-01	7285
0. 61100E-03	0. 31000E-04	0. 21800E-03	0. 13000E-04	6957
0. 11000E-02	0. 10000E-03	0. 47000E-03	0. 24000E-04	6961
0. 12600E-04	0. 63000E-06	0. 28000E-03	0. 14000E-04	7290
0. 29000E+00	0. 14500E-01	0. 59400E-02	0. 42000E-03	T077
0. 38700E+01	0. 19350E+00	0. 13800E-01	0. 69000E-03	7149
0. 10800E+01	0. 54000E-01	0. 22700E-02	0. 11400E-03	T095
0. 27000E-02	0. 13500E-03	0. 39600E-03	0. 17800E-04	6852
0. 97100E-01	0. 48550E-02	0. 11900E-02	0. 71400E-04	7689
0. 43700E-01	0. 22000E-02	0. 73000E-03	0. 13000E-03	8014
0. 66100E-02	0. 33050E-03	0. 10600E-02	0. 74200E-04	8021
0. 23700E+00	0. 15000E-01	0. 53000E-03	0. 18000E-03	7445
0. 12300E+02	0. 61500E+00	0. 26000E-02	0. 13000E-03	10007
0. 97700E-04	0. 61932E-05	0. 16419E-03	0. 82000E-05	10008
0. 65000E-01	0. 32500E-02	0. 13100E-03	0. 65500E-05	10010
0. 18200E+00	0. 91000E-02	0. 40000E-03	0. 50000E-04	10011
0. 73400E+02	0. 37000E+01	0. 30000E+00	0. 12000E+00	7153
0. 15700E-01	0. 78500E-03	0. 20000E-02	0. 10000E-03	7154
0. 72000E-01	0. 36000E-02	0. 91300E-02	0. 46000E-03	7147
0. 15600E-01	0. 78000E-03	0. 11100E-02	0. 56000E-04	7126
0. 14700E-05	0. 20000E-06	0. 12900E-01	0. 64500E-03	7065
0. 11100E+02	0. 55500E+00	0. 51100E-01	0. 26000E-02	T043
0. 13400E+01	0. 70000E-01	0. 59000E-02	0. 11000E-02	7593
0. 28500E+00	0. 14250E-01	0. 18800E-02	0. 94000E-04	8003
0. 55400E-02	0. 32000E-03	0. 10500E-01	0. 52500E-03	7444
0. 35700E-02	0. 10300E-02	0. 12800E-02	0. 89600E-04	7697
0. 12500E-04	0. 29000E-05	0. 80000E-04	0. 80000E-05	7922
0. 32000E-04	0. 53000E-05	0. 39600E-03	0. 20000E-04	7602
0. 34500E-03	0. 52000E-04	0. 31700E-03	0. 22000E-04	7692
0. 19600E-03	0. 10000E-04	0. 16100E-03	0. 80500E-05	7684
0. 48100E-03	0. 24050E-04	0. 20000E-03	0. 14000E-04	7691
0. 33000E-05	0. 14500E-05	0. 13900E-03	0. 11000E-04	7926
0. 65800E-02	0. 38000E-03	0. 31000E-03	0. 12000E-03	7495
0. 25100E-02	0. 58000E-03	0. 94100E-02	0. 47100E-03	7605
0. 36900E+00	0. 18450E-01	0. 14800E-02	0. 74000E-04	7594
0. 63600E+02	0. 32000E+01	0. 33000E-02	0. 33000E-03	7196
0. 29000E+02	0. 14500E+01	0. 57700E-02	0. 28850E-03	10056
0. 37200E+02	0. 18600E+01	0. 70300E-02	0. 35150E-03	10057
0. 73600E+02	0. 36800E+01	0. 76400E-02	0. 38200E-03	10062
0. 65900E-01	0. 32950E-02	0. 25200E-02	0. 19000E-03	10065

0. 65200E+02	0. 32600E+01	0. 54200E-02	0. 27100E-03	10066
0. 68000E+00	0. 34000E-01	0. 31000E-04	0. 70000E-05	10014
0. 28600E+02	0. 14300E+01	0. 21500E-01	0. 10750E-02	10108
0. 21200E+02	0. 10600E+01	0. 40600E+00	0. 20300E-01	10109
0. 26600E-01	0. 13300E-02	0. 11300E-02	0. 56500E-04	10110
0. 17600E-01	0. 88000E-03	0. 13100E-02	0. 65500E-04	10111
0. 75300E-03	0. 42000E-04	0. 10700E-03	0. 25000E-04	10112
0. 62800E-01	0. 31400E-02	0. 96300E-02	0. 63000E-03	10113
0. 26100E+02	0. 13050E+01	0. 18600E+00	0. 93000E-02	10114
0. 19100E+02	0. 95500E+00	0. 17700E+00	0. 88500E-02	10115
0. 15200E-02	0. 16000E-03	0. 10700E-02	0. 24000E-03	10116
0. 19400E-01	0. 97000E-03	0. 35300E-02	0. 33000E-03	10117
0. 88000E-01	0. 44000E-02	0. 13400E-03	0. 78000E-04	10118
0. 17400E-01	0. 87000E-03	0. 25400E-03	0. 12700E-04	10138
0. 38100E-01	0. 19050E-02	0. 44100E-03	0. 12000E-03	10139
0. 16000E+01	0. 80000E-01	0. 53200E-02	0. 30000E-03	10140
0. 57400E-04	0. 21333E-05	0. 85184E-04	0. 42351E-05	10137
0. 51000E-04	0. 25500E-05	0. 46000E-04	0. 30000E-05	10149
0. 54200E-06	0. 87000E-07	0. 12000E-04	0. 20000E-05	10150
0. 83800E-01	0. 41900E-02	0. 85000E-03	0. 38000E-03	10152
0. 14100E-02	0. 70500E-04	0. 12000E-04	0. 20000E-05	10153
0. 13000E-02	0. 50000E-03	0. 18000E-03	0. 14000E-04	10155
0. 24000E+00	0. 40000E-01	0. 84700E-02	0. 49000E-03	10157
0. 48100E+02	0. 24050E+01	0. 27400E+00	0. 13700E-01	10159
0. 59500E-01	0. 29750E-02	0. 53000E-03	0. 17000E-03	10161
0. 50000E-03	0. 25000E-04	0. 76000E-05	0. 40000E-05	10169
0. 21100E-04	0. 40447E-05	0. 15000E-04	0. 30000E-05	10171
0. 20600E-02	0. 10300E-03	0. 45000E-04	0. 60000E-05	10175
0. 18500E-02	0. 92500E-04	0. 43000E-04	0. 70000E-05	10176
0. 17600E-02	0. 90000E-03	0. 92000E-04	0. 10000E-04	10177
0. 16700E+01	0. 83500E-01	0. 27000E-02	0. 30000E-03	10178
0. 26000E-02	0. 50000E-03	0. 18000E-04	0. 10000E-04	10160
0. 11905E+01	0. 59027E-01	0. 13696E-02	0. 68480E-04	10207
0. 23430E+00	0. 16401E-01	0. 42973E-03	0. 25784E-04	10208
0. 36205E+02	0. 18103E+01	0. 39006E-02	0. 19503E-03	10209
0. 93273E-02	0. 46184E-03	0. 15779E-05	0. 62701E-06	10206
0. 13127E-04	0. 29728E-05	0. 78078E-05	0. 10150E-05	10205
0. 51500E-02	0. 30900E-03	0. 12030E-03	0. 75787E-04	10213
0. 15951E-04	0. 79755E-06	0. 71940E-05	0. 57552E-06	10214
0. 41566E-04	0. 41566E-05	0. 54882E-04	0. 38418E-05	10248
0. 74200E-04	0. 23002E-04	0. 69587E-04	0. 55669E-05	10249
0. 10800E+03	0. 54000E+01	0. 52760E-01	0. 26380E-02	10246
0. 41130E+00	0. 20565E-01	0. 15061E-01	0. 75306E-03	10247
0. 14536E-01	0. 72680E-03	0. 10629E-02	0. 14881E-03	10231
0. 28600E-03	0. 14300E-04	0. 20739E-03	0. 78808E-04	10232
0. 73300E+00	0. 36650E-01	0. 18481E-02	0. 14785E-03	10233
0. 10100E+01	0. 50500E-01	0. 83690E-02	0. 41845E-03	10234
0. 12600E+00	0. 63000E-02	0. 91798E-03	0. 91798E-04	10235
0. 15488E+00	0. 77440E-02	0. 13230E-03	0. 83348E-04	10236
0. 14400E+02	0. 72000E+00	0. 14381E-01	0. 86283E-03	10237
0. 73900E+02	0. 36950E+01	0. 66545E-01	0. 33273E-02	10238
0. 33289E-05	0. 16645E-06	0. 12856E-07	0. 32140E-08	10222
0. 17238E-04	0. 11550E-04	0. 14566E-04	0. 30588E-05	10285
0. 40703E+02	0. 20352E+01	0. 11916E+00	0. 59580E-02	10286
0. 27155E+02	0. 13578E+01	0. 66937E-01	0. 33469E-02	10287
0. 62530E-02	0. 31265E-03	0. 12994E-03	0. 24689E-04	10289
0. 89881E-04	0. 34690E-04	0. 84988E-04	0. 50856E-05	10307
0. 12895E-02	0. 20161E-03	0. 24271E-04	0. 39519E-05	10308
0. 51459E-01	0. 11836E-01	0. 15283E-02	0. 76415E-04	10311
0. 17706E+01	0. 88531E-01	0. 35638E-01	0. 17819E-02	10312
0. 20100E-02	0. 18090E-03	0. 55000E-03	0. 19250E-03	10313
0. 38100E-02	0. 19050E-03	0. 49000E-03	0. 25970E-03	10314
0. 19465E+02	0. 11679E+01	0. 84698E-01	0. 42349E-02	10293

0. 27015E+00	0. 13508E-01	0. 50495E-02	0. 25248E-03	10294
0. 15413E+01	0. 77065E-01	0. 12009E-02	0. 10808E-03	10295
0. 73100E+02	0. 36550E+01	0. 11200E+00	0. 56000E-02	10298
0. 50265E-03	0. 23186E-04	0. 32997E-03	0. 16495E-04	10388
0. 24866E-01	0. 14920E-02	0. 20426E-02	0. 32681E-03	10390
0. 54768E-03	0. 26672E-04	0. 37895E-05	0. 30316E-06	10364
0. 36909E-04	0. 14941E-05	0. 88301E-05	0. 39479E-06	10375
0. 24591E-01	0. 12296E-02	0. 96020E-03	0. 48010E-04	10377
0. 18569E+02	0. 92845E+00	0. 35558E-01	0. 17779E-02	10399
0. 16782E+02	0. 83911E+00	0. 23998E-01	0. 11999E-02	10400
0. 19400E-02	0. 97100E-04	0. 38600E-04	0. 23100E-05	10401
0. 39300E-02	0. 19650E-03	0. 62405E-05	0. 11233E-05	10402
0. 12651E-02	0. 63255E-04	0. 85021E-05	0. 14454E-05	10403
0. 13410E-01	0. 67050E-03	0. 19944E-05	0. 97729E-06	10404
0. 38068E-04	0. 19034E-05	0. 41508E-05	0. 14528E-05	10460
0. 29248E-04	0. 14624E-05	0. 32462E-05	0. 13634E-05	10462
0. 14062E+00	0. 70311E-02	0. 25165E-03	0. 12582E-04	10466
0. 37063E-01	0. 18532E-02	0. 38650E-04	0. 19325E-05	10467
0. 18670E-01	0. 93351E-03	0. 88868E-04	0. 44434E-05	10468
0. 35807E-04	0. 34292E-05	0. 32944E-04	0. 22876E-05	10457
0. 15684E-04	0. 11360E-05	0. 49751E-04	0. 24856E-05	10458
0. 18456E-04	0. 12589E-05	0. 55489E-07	0. 11098E-07	10459
0. 72968E-04	0. 36484E-05	0. 20891E-06	0. 14624E-07	10472
0. 25566E-05	0. 12783E-06	0. 26130E-07	0. 73163E-08	10473
0. 22432E+01	0. 11216E+00	0. 47600E-03	0. 76160E-04	10476
0. 19544E+01	0. 97720E-01	0. 36520E-01	0. 18260E-02	10258
0. 23417E+00	0. 11709E-01	0. 14418E-02	0. 72091E-04	10284
0. 52177E-03	0. 41741E-04	0. 68912E-03	0. 34456E-04	10275
0. 25698E-03	0. 28268E-04	0. 10943E-03	0. 54716E-05	10276
0. 15831E-03	0. 55410E-04	0. 59567E-04	0. 47654E-05	10277
0. 67838E-02	0. 61054E-03	0. 20197E-02	0. 10099E-03	10278
0. 43757E+02	0. 21879E+01	0. 31669E+00	0. 15835E-01	10281
0. 32141E+02	0. 16070E+01	0. 43578E-01	0. 21789E-02	10282
0. 43654E-02	0. 21927E-03	0. 18358E-01	0. 91790E-03	10283
0. 22265E+00	0. 11133E-01	0. 16531E-02	0. 82655E-04	10290
0. 45126E+03	0. 22563E+02	0. 54702E+01	0. 27351E+00	10304
0. 28360E-02	0. 79409E-03	0. 36720E-02	0. 18360E-03	10305
0. 10500E-02	0. 52500E-04	0. 14199E-04	0. 70995E-06	10303
0. 79059E-02	0. 39530E-03	0. 18853E-03	0. 94266E-05	10306
0. 31801E+00	0. 15901E-01	0. 52150E-03	0. 41720E-04	10302
0. 57289E+03	0. 28645E+02	0. 37881E+00	0. 18941E-01	10406
0. 15972E+02	0. 79860E+00	0. 38904E-01	0. 19452E-02	10387
0. 23500E-03	0. 11750E-04	0. 74662E-06	0. 33598E-06	10329
0. 17742E+01	0. 10645E+00	0. 46381E-01	0. 23191E-02	10330
0. 83071E+00	0. 41536E-01	0. 32807E-01	0. 16403E-02	10335
0. 33368E+02	0. 16684E+01	0. 40783E-01	0. 20392E-02	10336
0. 37958E-01	0. 18979E-02	0. 21983E-03	0. 19784E-04	10337
0. 23208E-01	0. 76587E-02	0. 34958E-02	0. 17479E-03	10340
0. 11500E-01	0. 92000E-03	0. 14000E-03	0. 28000E-04	10349
0. 57700E-01	0. 28850E-02	0. 94000E-04	0. 22560E-04	10350
0. 43200E-02	0. 30240E-03	0. 19000E-03	0. 24700E-04	10351
0. 15663E+01	0. 78315E-01	0. 10564E-02	0. 52820E-04	10352
0. 73519E+00	0. 36759E-01	0. 74700E-02	0. 37350E-03	10353
0. 14581E-02	0. 10207E-03	0. 50061E-02	0. 55067E-03	10354
0. 19641E-02	0. 35354E-03	0. 16152E-03	0. 87221E-04	10363
0. 58843E+03	0. 29422E+02	0. 60173E+00	0. 36104E-01	10391
0. 52088E+03	0. 26044E+02	0. 34961E+00	0. 31465E-01	10392
0. 24834E+04	0. 12417E+03	0. 32811E+01	0. 16406E+00	10393
0. 24319E+02	0. 12160E+01	0. 68940E-01	0. 34470E-02	10394
0. 29092E+03	0. 14546E+02	0. 72853E+00	0. 36427E-01	10395
0. 10908E+03	0. 54542E+01	0. 43855E-01	0. 21928E-02	10396
0. 98516E-01	0. 49258E-02	0. 34055E-02	0. 17028E-03	10397
0. 83535E-02	0. 41768E-03	0. 16257E-02	0. 27637E-03	10398

0. 18762E+01	0. 93810E-01	0. 12940E-02	0. 16822E-03	10436
0. 30285E+00	0. 15143E-01	0. 15969E-02	0. 17566E-03	10437
0. 11394E+02	0. 56970E+00	0. 57977E-02	0. 28989E-03	10438
0. 13369E+02	0. 66845E+00	0. 76576E-02	0. 38288E-03	10439
0. 35955E+01	0. 17978E+00	0. 35036E-02	0. 17518E-03	10440
0. 13308E-01	0. 66541E-03	0. 42571E-03	0. 14048E-03	10441
0. 47780E-01	0. 23890E-02	0. 17900E-03	0. 89500E-05	10443
0. 11870E+00	0. 59350E-02	0. 71623E-03	0. 35812E-04	10444
0. 39173E+03	0. 19587E+02	0. 34800E-01	0. 17400E-02	10447
0. 15469E-01	0. 77346E-03	0. 73048E-03	0. 36524E-04	10448
0. 19399E+01	0. 23279E+00	0. 18128E-02	0. 90640E-04	10556
0. 17232E-04	0. 86160E-06	0. 29778E-05	0. 14889E-06	10520
0. 11919E-04	0. 59595E-06	0. 11662E-04	0. 58310E-06	10521
0. 13148E-03	0. 65740E-05	0. 97699E-05	0. 48850E-06	10522
0. 19606E-04	0. 98030E-06	0. 18437E-05	0. 92187E-07	10523
0. 28298E-04	0. 14149E-05	0. 49492E-06	0. 29695E-07	10524
0. 22171E-02	0. 11085E-03	0. 36996E-05	0. 18498E-06	10525
0. 85349E-01	0. 42675E-02	0. 26535E-02	0. 13268E-03	10526
0. 19023E-04	0. 95117E-06	0. 69513E-06	0. 34757E-07	10527
0. 10556E+01	0. 52781E-01	0. 57463E-03	0. 63209E-04	10528
0. 35992E+00	0. 17996E-01	0. 77635E-02	0. 38818E-03	10529
0. 22937E-01	0. 16056E-02	0. 15784E-02	0. 20519E-03	10530
0. 93554E+01	0. 46777E+00	0. 84204E-02	0. 42102E-03	10531
0. 72032E+01	0. 36016E+00	0. 20456E-01	0. 10228E-02	10532
0. 11128E+02	0. 55640E+00	0. 95015E-02	0. 47508E-03	10533
0. 10339E-02	0. 10339E-03	0. 59770E-02	0. 29885E-03	10534
0. 15397E+00	0. 76985E-02	0. 21693E-03	0. 11064E-03	10552
0. 15225E-02	0. 66923E-04	0. 48014E-05	0. 22305E-06	10557
0. 43651E-06	0. 21180E-07	0. 94600E-08	0. 17030E-08	10559
0. 37404E-06	0. 29188E-07	0. 30800E-06	0. 10988E-06	10561
0. 12216E-01	0. 61082E-03	0. 28455E-06	0. 15081E-06	10563
0. 40235E-04	0. 20118E-05	0. 14127E-06	0. 70637E-08	10564
0. 69200E-07	0. 34600E-08	0. 98039E-04	0. 48894E-05	10565
0. 11445E-03	0. 53344E-05	0. 64296E-04	0. 31886E-05	10567
0. 16700E+03	0. 83500E+01	0. 29800E-01	0. 14900E-02	10569
0. 40600E+02	0. 20300E+01	0. 19300E+00	0. 96500E-02	10570
0. 18506E+03	0. 92531E+01	0. 15791E-01	0. 78955E-03	10571
0. 14800E+02	0. 74000E+00	0. 28900E-02	0. 14500E-03	10572
0. 20900E-02	0. 10500E-03	0. 43400E-03	0. 21700E-04	10573
0. 13490E+00	0. 67450E-02	0. 33673E-03	0. 16837E-04	10574
0. 27300E+00	0. 13700E-01	0. 11300E-02	0. 56500E-04	10575
0. 26800E+01	0. 13400E+00	0. 39000E-02	0. 19500E-03	10576
0. 69300E-01	0. 34700E-02	0. 39100E-02	0. 19600E-03	10577
0. 38822E+00	0. 19411E-01	0. 11654E-01	0. 58270E-03	10578
0. 47246E+01	0. 23623E+00	0. 35992E-01	0. 17996E-02	10604
0. 12277E+00	0. 61385E-02	0. 19019E-02	0. 95097E-04	10605
0. 13300E-03	0. 66500E-05	0. 21822E-05	0. 61100E-06	10596
0. 11000E+01	0. 66000E-01	0. 57644E-02	0. 28822E-03	10681
0. 16300E+00	0. 39120E-01	0. 29717E-02	0. 14859E-03	10682
0. 25600E-03	0. 12800E-04	0. 92455E-04	0. 24963E-04	10683
0. 39600E+00	0. 19800E-01	0. 14486E-02	0. 72431E-04	10684
0. 15531E+00	0. 77656E-02	0. 49081E-02	0. 24540E-03	10553
0. 24140E+00	0. 12070E-01	0. 10410E-02	0. 52050E-04	10554
0. 14672E-01	0. 73358E-03	0. 11518E-04	0. 14974E-05	10555
0. 31558E-04	0. 15779E-05	0. 92647E-07	0. 74117E-08	10645
0. 27423E-05	0. 13712E-06	0. 14915E-06	0. 89487E-08	10646
0. 15577E+01	0. 77886E-01	0. 70767E-03	0. 35384E-04	10647
0. 12604E+04	0. 63022E+02	0. 23977E+01	0. 11988E+00	10672
0. 29269E+01	0. 14634E+00	0. 54563E-02	0. 27282E-03	10758
0. 28229E-02	0. 14115E-03	0. 33386E-04	0. 16693E-05	10759
0. 33229E-02	0. 53166E-03	0. 11077E-03	0. 55386E-05	10760
0. 42791E+02	0. 21395E+01	0. 28014E+00	0. 14007E-01	10761
0. 31227E+02	0. 15614E+01	0. 11487E-01	0. 57437E-03	10762

0. 20845E-03	0. 82854E-05	0. 56990E-05	0. 26205E-06	10727
0. 16336E+01	0. 81682E-01	0. 45620E-02	0. 22810E-03	10729
0. 38707E-01	0. 19354E-02	0. 39574E-03	0. 19787E-04	10730
0. 41058E-01	0. 20529E-02	0. 13888E-02	0. 69441E-04	10731
0. 66619E+00	0. 33309E-01	0. 70331E-03	0. 35166E-04	10732
0. 29543E-01	0. 14772E-02	0. 61169E-04	0. 30585E-05	10808
0. 17500E+00	0. 87500E-02	0. 65226E-03	0. 32613E-04	10809
0. 16418E+00	0. 82092E-02	0. 17800E-02	0. 89000E-04	10811
0. 10861E+00	0. 54303E-02	0. 51365E-03	0. 25682E-04	10812



## CORRELATION RESULTS

Nuclides Tested for Correlation are  $^{60}\text{CO}$  and  $^{59}\text{NI}$

Test made on 18-SEP-84

Sorting Criteria are :

BWR

Number of entries in the fit is 24

Zero Offset Value,  $B_0$ , is  $-2.46783\text{E-}08$

Correlation Ratio,  $B_1$ , is  $2.37766\text{E-}03$

Standard Deviation in  $B_0$  is  $1.27876\text{E-}06$

Standard Deviation in  $B_1$  is  $9.29765\text{E-}04$

F-TEST Value is 8.741

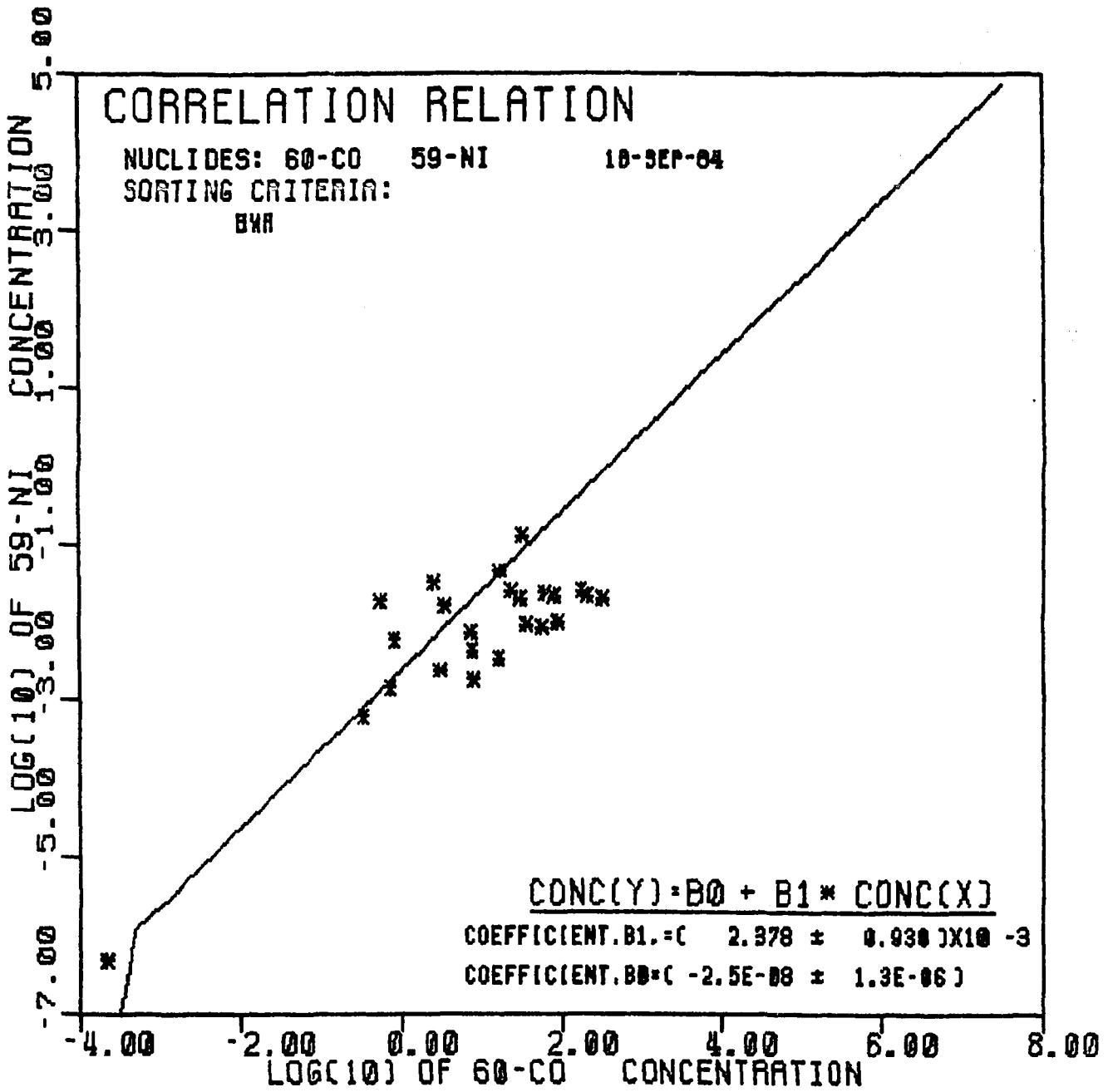
Confidence Level for this Correlation is: 99. %



60-CO 59-NI 1

BWR

0.75800E+01	0.38000E+00	0.72000E-02	0.33000E-02	6786
0.83000E+00	0.41500E-01	0.60300E-02	0.30100E-02	T069
0.78000E+01	0.40000E+00	0.41800E-02	0.19200E-02	T092
0.31000E+02	0.20000E+01	0.20000E-01	0.30000E-02	6813
0.36700E+02	0.18350E+01	0.92000E-02	0.19000E-02	7087
0.21200E+03	0.10600E+02	0.21000E-01	0.30000E-02	T087
0.30100E+01	0.15050E+00	0.24000E-02	0.90000E-03	7062
0.57500E+02	0.29000E+01	0.86000E-02	0.15000E-02	7686
0.78800E+01	0.39400E+00	0.19000E-02	0.69000E-03	7813
0.16700E+02	0.83500E+00	0.34000E-02	0.12000E-02	7915
0.23200E+02	0.12000E+01	0.24500E-01	0.38000E-02	7449
0.54900E+00	0.27450E-01	0.18700E-01	0.11000E-01	8002
0.34800E+01	0.17400E+00	0.16400E-01	0.33000E-02	7150
0.32500E+03	0.60300E+00	0.20000E-01	0.34000E-02	8023
0.32000E+02	0.20000E+01	0.12600E+00	0.80000E-02	T038
0.17300E+02	0.25000E+01	0.44900E-01	0.31000E-02	T112
0.90600E+02	0.45300E+01	0.10000E-01	0.20000E-02	7450
0.24800E+01	0.12400E+00	0.32000E-01	0.50000E-02	7452
0.17800E+03	0.89000E+01	0.25000E-01	0.30000E-02	9117
0.33900E+00	0.16950E-01	0.63000E-03	0.10000E-03	9981
0.80300E+02	0.40150E+01	0.21000E-01	0.40000E-02	9982
0.72900E+00	0.36450E-01	0.15000E-02	0.50000E-03	10186
0.22130E-03	0.81123E-05	0.50000E-06	0.12000E-06	10185
0.61300E+02	0.31000E+01	0.24000E-01	0.60000E-02	10188



## CORRELATION RESULTS

Nuclides Tested for Correlation are  $^{60}\text{CO}$  and  $^{63}\text{NI}$

Test made on 18-SEP-84

Sorting Criteria are :

BWR

Number of entries in the fit is 75

Zero Offset Value,  $B_0$ , is  $7.03133\text{E-}07$

Correlation Ratio,  $B_1$ , is  $4.97432\text{E-}02$

Standard Deviation in  $B_0$  is  $1.20252\text{E-}06$

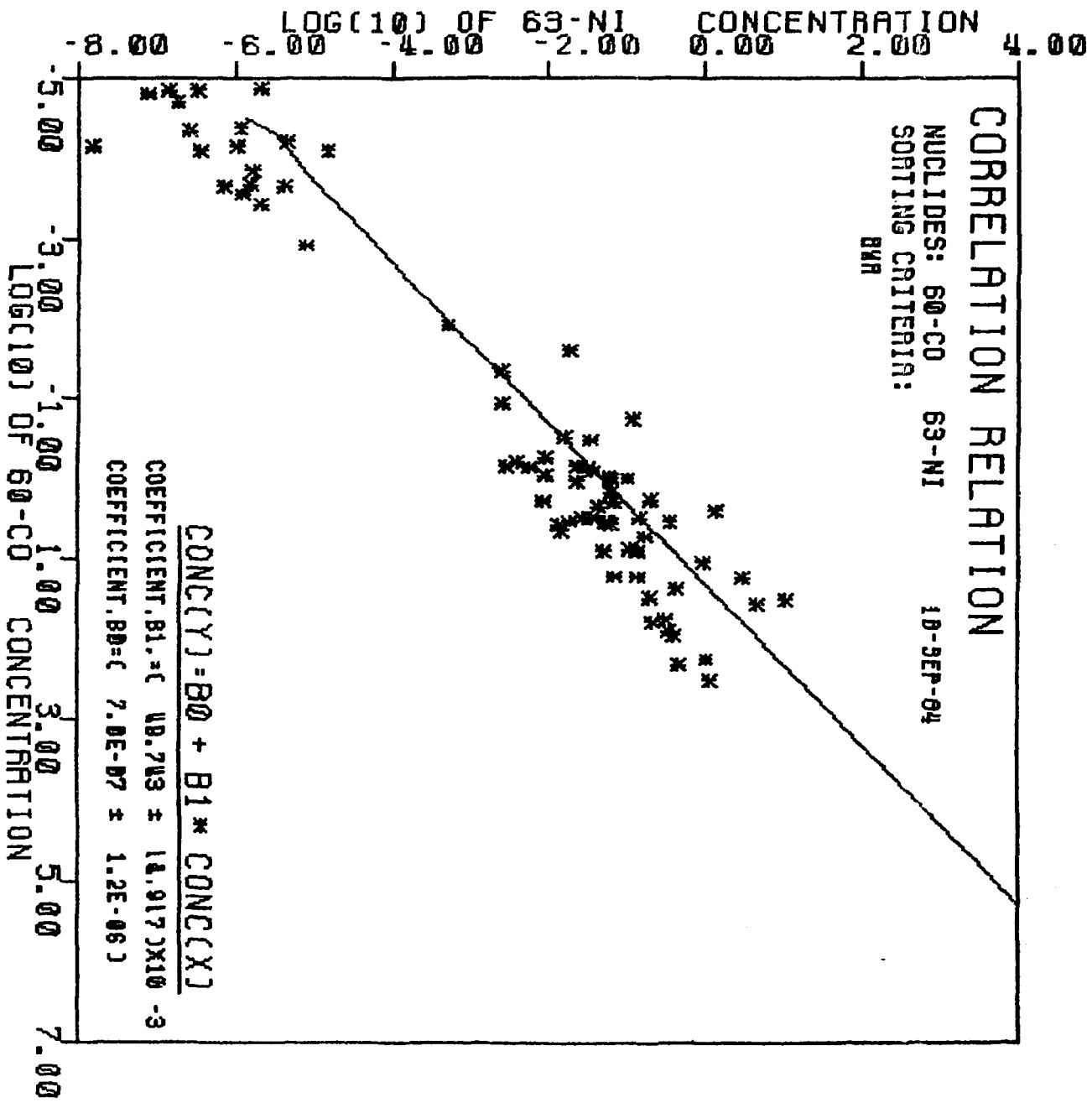
Standard Deviation in  $B_1$  is  $1.49170\text{E-}02$

F-TEST Value is 12.672

Confidence Level for this Correlation is: 99. %

0. 12100E-02	0. 60500E-04	0. 78000E-05	0. 46800E-06	T050
0. 70900E-04	0. 35450E-05	0. 15600E-07	0. 17200E-08	7048
0. 22800E-03	0. 11400E-04	0. 42400E-05	0. 21200E-06	6826
0. 19600E-04	0. 10000E-05	0. 19000E-06	0. 12000E-06	7085
0. 38000E-03	0. 20000E-04	0. 21400E-05	0. 11000E-06	6366
0. 14000E-04	0. 70000E-06	0. 33000E-06	0. 43000E-07	T016
0. 79000E-04	0. 40000E-05	0. 15200E-04	0. 80000E-06	T037
0. 14400E-04	0. 72000E-06	0. 14600E-06	0. 38000E-07	T090
0. 69100E-04	0. 34550E-05	0. 10800E-05	0. 54000E-07	7392
0. 61800E-04	0. 31000E-05	0. 46000E-05	0. 23000E-06	7394
0. 13500E-04	0. 70000E-06	0. 21500E-05	0. 11000E-06	6975
0. 41800E-04	0. 21000E-05	0. 12000E-05	0. 60000E-07	7393
0. 45200E-04	0. 23000E-05	0. 26000E-06	0. 34000E-07	7656
0. 21100E-03	0. 10550E-04	0. 15900E-05	0. 11000E-06	7649
0. 14000E-03	0. 70000E-05	0. 17000E-05	0. 17000E-06	7651
0. 79000E-04	0. 40000E-05	0. 36000E-06	0. 50000E-07	T064
0. 15600E-04	0. 83000E-06	0. 76000E-07	0. 33000E-07	7169
0. 31000E+01	0. 20000E+00	0. 15000E+00	0. 13000E-01	T065
0. 10000E+01	0. 50000E-01	0. 66200E-01	0. 33100E-02	T086
0. 95000E+00	0. 90000E-01	0. 61100E-01	0. 57000E-02	T048
0. 73000E+00	0. 40000E-01	0. 31600E-01	0. 16000E-02	T066
0. 46000E-01	0. 23000E-02	0. 25900E-02	0. 23300E-03	T055
0. 34400E+01	0. 17200E+00	0. 53500E-01	0. 26800E-02	6789
0. 75800E+01	0. 38000E+00	0. 11200E+00	0. 56000E-02	6786
0. 22500E+01	0. 11250E+00	0. 44300E-01	0. 22200E-02	T117
0. 31300E+01	0. 16000E+00	0. 36900E-01	0. 18450E-02	7058
0. 38000E+01	0. 20000E+00	0. 13400E-01	0. 67000E-03	7063
0. 83000E+00	0. 41500E-01	0. 36500E-01	0. 18300E-02	T069
0. 78000E+01	0. 40000E+00	0. 13500E+00	0. 67500E-02	T092
0. 30800E+00	0. 15400E-01	0. 16400E-01	0. 82000E-03	6996
0. 44500E+01	0. 22250E+00	0. 14500E-01	0. 73000E-03	7401
0. 79000E+01	0. 40000E+00	0. 49800E-01	0. 25000E-02	6378
0. 31000E+02	0. 20000E+01	0. 19700E+00	0. 10000E-01	6813
0. 69000E+00	0. 40000E-01	0. 23800E-01	0. 11900E-02	6379
0. 37000E+01	0. 19000E+00	0. 65700E-01	0. 33000E-02	6812
0. 36700E+02	0. 18350E+01	0. 46300E+01	0. 23150E+00	7087
0. 19900E+01	0. 10000E+00	0. 70700E-01	0. 35350E-02	7088
0. 21200E+03	0. 10600E+02	0. 46400E+00	0. 23200E-01	T087
0. 53000E+01	0. 30000E+00	0. 17000E+00	0. 22000E-01	T010
0. 11000E+02	0. 10000E+01	0. 96000E+00	0. 48000E-01	T046
0. 30100E+01	0. 15050E+00	0. 28100E-01	0. 14050E-02	7062
0. 35500E+01	0. 18000E+00	0. 60300E-01	0. 30000E-03	7690
0. 57500E+02	0. 29000E+01	0. 32000E+00	0. 16000E-01	7686
0. 78800E+01	0. 39400E+00	0. 14000E+00	0. 70000E-02	7813
0. 99700E+00	0. 50000E-01	0. 10600E+00	0. 53000E-02	7913
0. 16700E+02	0. 83500E+00	0. 14100E+00	0. 70500E-02	7915
0. 23200E+02	0. 12000E+01	0. 43000E+00	0. 22000E-01	7449
0. 10900E+01	0. 54500E-01	0. 24000E-01	0. 12000E-02	7588
0. 54900E+00	0. 27450E-01	0. 92700E-02	0. 26900E-02	8002
0. 33700E+01	0. 17000E+00	0. 18900E-01	0. 10000E-02	7151
0. 34800E+01	0. 17400E+00	0. 36000E+00	0. 18000E+00	7150
0. 91400E+00	0. 46000E-01	0. 94300E-02	0. 47000E-03	7674
0. 32500E+03	0. 60300E+00	0. 11600E+01	0. 58000E-01	8023
0. 32000E+02	0. 20000E+01	0. 11000E+02	0. 10000E+01	T038
0. 70000E+00	0. 40000E-01	0. 29000E-02	0. 14500E-03	T007
0. 15500E+01	0. 80000E-01	0. 64100E-01	0. 32050E-02	T051
0. 12000E+00	0. 20000E-01	0. 26000E-02	0. 47000E-03	T054
0. 17300E+02	0. 25000E+01	0. 30000E+01	0. 15000E+00	T112
0. 90600E+02	0. 45300E+01	0. 39500E+00	0. 20000E-01	7450
0. 24800E+01	0. 12400E+00	0. 14100E+01	0. 70500E-01	7452
0. 25000E-01	0. 12500E-02	0. 18100E-01	0. 21700E-02	T070

0. 16700E+02	0. 83500E+00	0. 66900E-01	0. 33450E-02	T091
0. 18000E+00	0. 90000E-02	0. 12100E+00	0. 60000E-02	6792
0. 18500E+01	0. 92500E-01	0. 20400E+00	0. 10200E-01	6827
0. 62000E+00	0. 31000E-01	0. 41000E-02	0. 25000E-02	7448
0. 17800E+03	0. 89000E+01	0. 10600E+01	0. 10000E+00	9117
0. 10100E+01	0. 50500E-01	0. 64000E-01	0. 14000E-01	9119
0. 19000E+01	0. 10000E+00	0. 84000E-02	0. 84000E-03	9800
0. 27970E-03	0. 13557E-04	0. 12430E-05	0. 60061E-06	9978
0. 12200E-01	0. 61000E-03	0. 52000E-03	0. 24000E-03	9980
0. 33900E+00	0. 16950E-01	0. 34400E-01	0. 17200E-02	9981
0. 80300E+02	0. 40150E+01	0. 35400E+00	0. 30000E-01	9982
0. 72900E+00	0. 36450E-01	0. 57500E-02	0. 40000E-03	10186
0. 22130E-03	0. 81123E-05	0. 71500E-06	0. 43000E-07	10185
0. 61300E+02	0. 31000E+01	0. 21500E+00	0. 11000E-01	10188



## CORRELATION RESULTS

Nuclides Tested for Correlation are 60-CO and 14-C

Test made on 18-SEP-84

Sorting Criteria are :

BWR

Number of entries in the fit is 43

Zero Offset Value, B0, is 1.90006E-08

Correlation Ratio, B1, is 1.62245E-02

Standard Deviation in B0 is 2.24739E-07

Standard Deviation in B1 is 5.22504E-03

F-TEST Value is 12.113

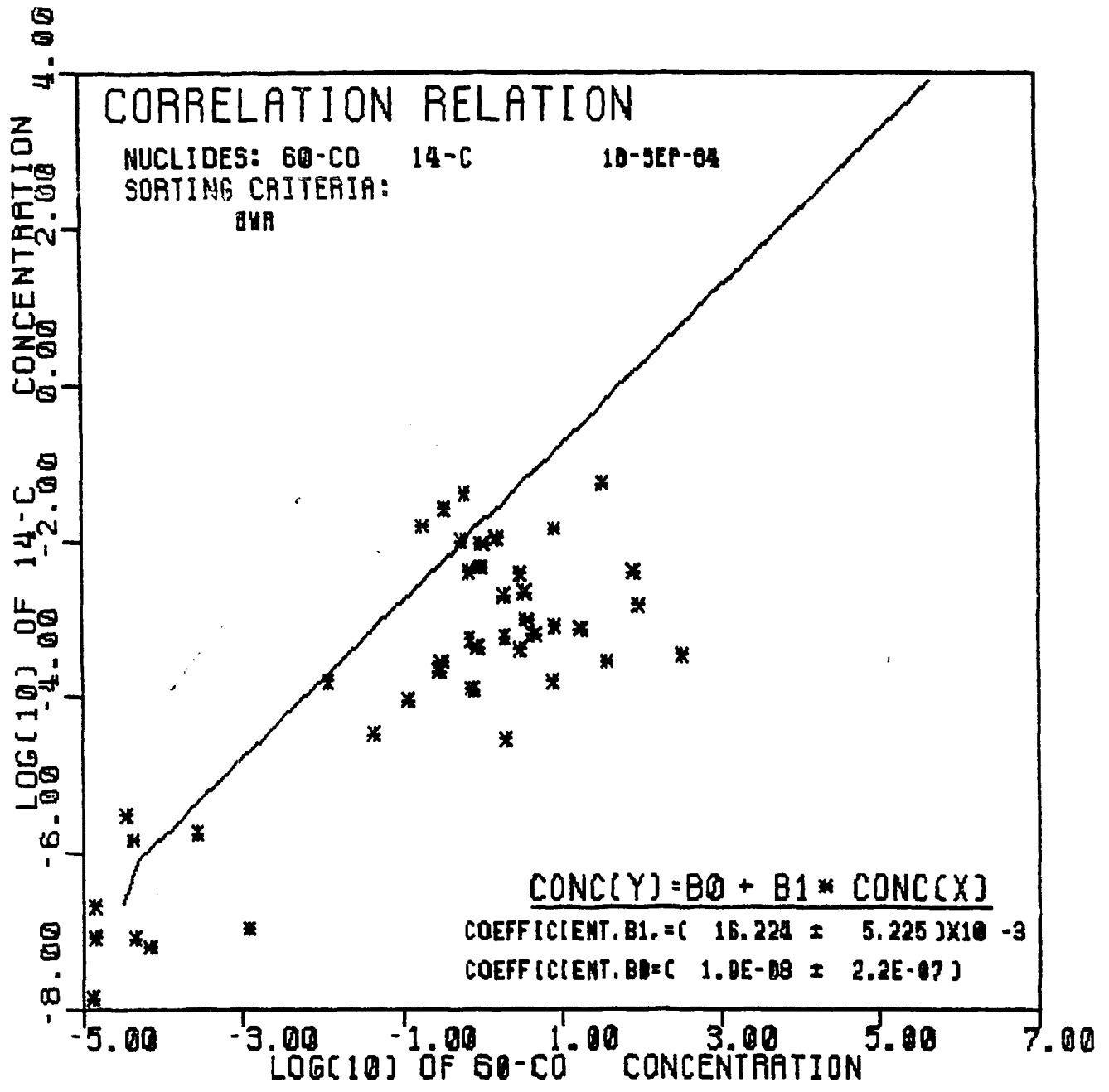
Confidence Level for this Correlation is: 99. %

60-CD 14-C 1

BWR

0. 12100E-02	0. 60500E-04	0. 11000E-06	0. 47000E-07	T050
0. 70900E-04	0. 35450E-05	0. 65000E-07	0. 45500E-08	7048
0. 14000E-04	0. 70000E-06	0. 21600E-06	0. 11000E-07	T016
0. 14400E-04	0. 72000E-06	0. 86700E-07	0. 43400E-08	T090
0. 13500E-04	0. 70000E-06	0. 14000E-07	0. 49000E-08	6975
0. 41800E-04	0. 21000E-05	0. 15200E-05	0. 76000E-07	7393
0. 35000E-04	0. 30000E-05	0. 31400E-05	0. 15700E-06	T017
0. 45200E-04	0. 23000E-05	0. 83900E-07	0. 42000E-08	7656
0. 73000E+00	0. 40000E-01	0. 13000E-03	0. 29000E-04	T066
0. 46000E-01	0. 23000E-02	0. 33000E-04	0. 12000E-04	T055
0. 34400E+01	0. 17200E+00	0. 21600E-02	0. 13000E-03	6789
0. 75800E+01	0. 38000E+00	0. 16000E-03	0. 26000E-04	6786
0. 31300E+01	0. 16000E+00	0. 41000E-03	0. 45000E-04	7059
0. 83000E+00	0. 41500E-01	0. 12400E-03	0. 43400E-04	T069
0. 30800E+00	0. 15400E-01	0. 28300E-03	0. 17000E-04	6996
0. 44500E+01	0. 22250E+00	0. 61500E-03	0. 31000E-04	7401
0. 79000E+01	0. 40000E+00	0. 14200E-01	0. 71000E-03	6378
0. 69000E+00	0. 40000E-01	0. 40600E-02	0. 20300E-03	6379
0. 37000E+01	0. 19000E+00	0. 96000E-03	0. 17000E-03	6812
0. 36700E+02	0. 18350E+01	0. 28000E-03	0. 31000E-04	7087
0. 19900E+01	0. 10000E+00	0. 30000E-04	0. 81000E-05	7088
0. 30100E+01	0. 15050E+00	0. 38000E-02	0. 50000E-03	7062
0. 78800E+01	0. 39400E+00	0. 82000E-03	0. 41000E-04	7813
0. 99700E+00	0. 50000E-01	0. 44600E-02	0. 22300E-03	7913
0. 54900E+00	0. 27450E-01	0. 99300E-02	0. 17900E-03	8002
0. 91400E+00	0. 46000E-01	0. 41900E-03	0. 25000E-04	7674
0. 32500E+03	0. 60300E+00	0. 35000E-03	0. 46000E-04	8023
0. 32000E+02	0. 20000E+01	0. 54000E-01	0. 27000E-02	T038
0. 15500E+01	0. 80000E-01	0. 11000E-01	0. 22000E-02	T051
0. 12000E+00	0. 20000E-01	0. 91000E-04	0. 14000E-04	T054
0. 17300E+02	0. 25000E+01	0. 72000E-03	0. 17000E-03	T112
0. 90600E+02	0. 45300E+01	0. 15000E-02	0. 20000E-03	7450
0. 18000E+00	0. 90000E-02	0. 15400E-01	0. 77000E-03	6792
0. 18500E+01	0. 92500E-01	0. 20000E-02	0. 78000E-03	6827
0. 62000E+00	0. 31000E-01	0. 41000E-01	0. 37000E-02	7448
0. 10100E+01	0. 50500E-01	0. 90000E-02	0. 45000E-03	9119
0. 29000E+00	0. 14500E-01	0. 21200E-03	0. 89000E-04	9799
0. 19000E+01	0. 10000E+00	0. 57000E-03	0. 68000E-04	9800
0. 27970E-03	0. 13557E-04	0. 18110E-05	0. 80002E-06	9978
0. 12200E-01	0. 61000E-03	0. 16000E-03	0. 50000E-04	9980
0. 33900E+00	0. 16950E-01	0. 25800E-01	0. 12900E-02	9981
0. 80300E+02	0. 40150E+01	0. 40000E-02	0. 50000E-03	9982
0. 72900E+00	0. 36450E-01	0. 55000E-03	0. 23000E-03	10186





## CORRELATION RESULTS

Nuclides Tested for Correlation are  $^{60}\text{CO}$  and  $^{59}\text{NI}$

Test made on 18-SEP-84

Sorting Criteria are :

PWR

Number of entries in the fit is 32

Zero Offset Value,  $B_0$ , is  $-4.97543\text{E}-07$

Correlation Ratio,  $B_1$ , is  $2.92886\text{E}-02$

Standard Deviation in  $B_0$  is  $1.01395\text{E}-06$

Standard Deviation in  $B_1$  is  $1.21275\text{E}-02$

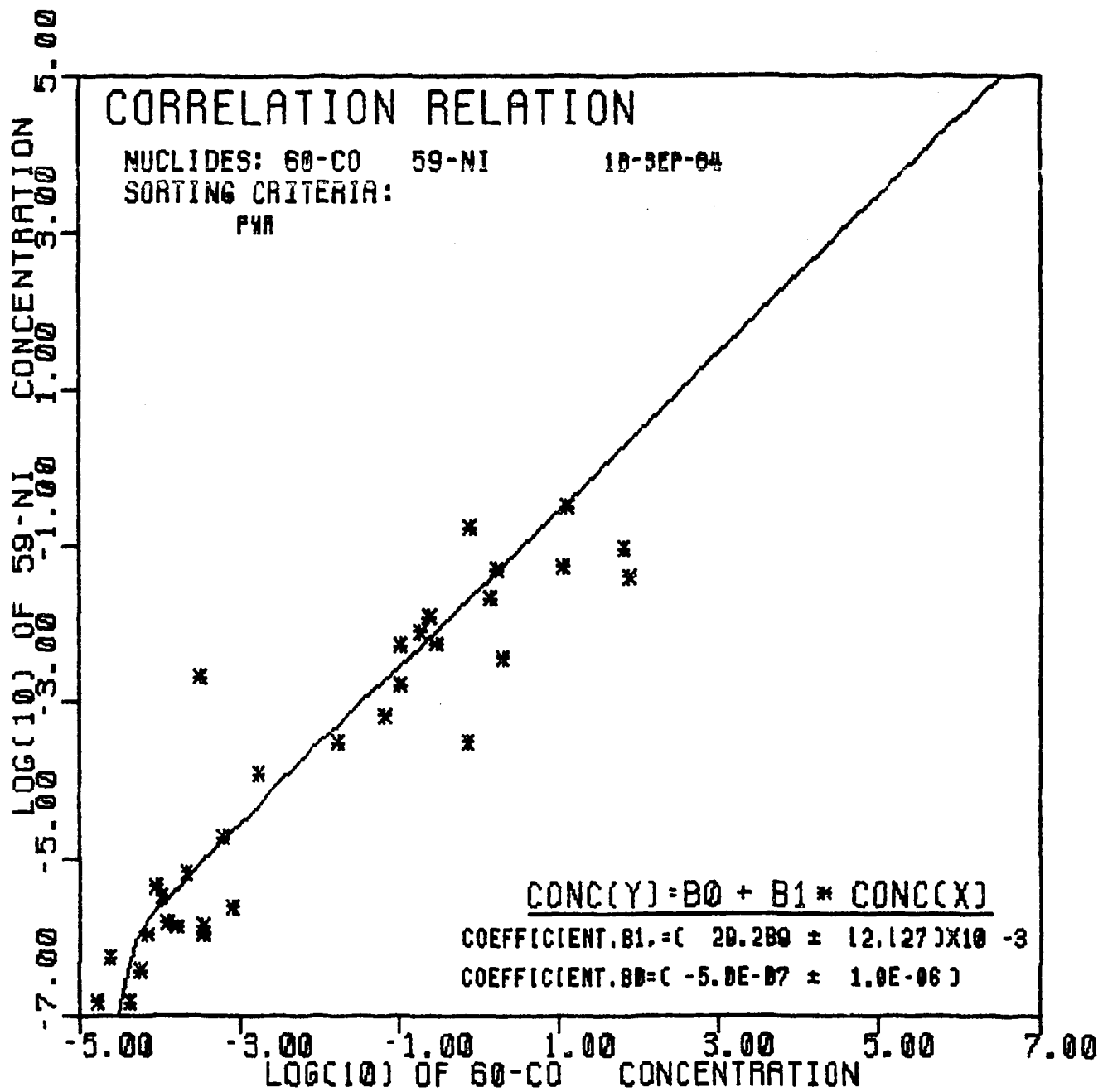
F-TEST Value is 7.058

Confidence Level for this Correlation is: 99. %

60-CO 59-NI 1

PWR

0. 12800E-03	0. 64000E-05	0. 16000E-05	0. 20000E-06	7269
0. 24400E-04	0. 12200E-05	0. 57000E-06	0. 17000E-06	7267
0. 70000E-04	0. 40000E-05	0. 11100E-05	0. 47700E-06	6956
0. 16500E-03	0. 83000E-05	0. 14000E-05	0. 20000E-06	7268
0. 35400E-03	0. 17700E-04	0. 11400E-05	0. 16000E-06	6955
0. 81000E-03	0. 40500E-04	0. 25000E-05	0. 13000E-05	6725
0. 93100E-04	0. 47000E-05	0. 46000E-05	0. 12000E-05	6729
0. 63000E-03	0. 31500E-04	0. 19700E-04	0. 18000E-05	T089
0. 17100E-02	0. 86000E-04	0. 12500E-03	0. 13000E-04	7131
0. 17600E-04	0. 90000E-06	0. 16000E-06	0. 25600E-07	7440
0. 43800E-04	0. 28000E-05	0. 15400E-05	0. 12300E-07	7567
0. 21700E-03	0. 11000E-04	0. 69000E-05	0. 44000E-05	7562
0. 10600E-03	0. 53000E-05	0. 34000E-05	0. 11000E-05	7917
0. 72700E+00	0. 36350E-01	0. 32000E-03	0. 83000E-04	9502
0. 34420E-03	0. 15594E-04	0. 14400E-05	0. 61900E-06	9509
0. 33400E-03	0. 17000E-03	0. 21000E-02	0. 60000E-03	T071
0. 10300E+00	0. 51500E-02	0. 17000E-02	0. 90000E-03	T072
0. 77000E+00	0. 40000E-01	0. 17000E+00	0. 30000E-01	6958
0. 29000E+00	0. 14500E-01	0. 56000E-02	0. 23000E-02	T077
0. 10500E+00	0. 52500E-02	0. 54000E-02	0. 25900E-02	7402
0. 23700E+00	0. 15000E-01	0. 12500E-01	0. 78600E-02	7445
0. 12300E+02	0. 61500E+00	0. 31400E+00	0. 15700E-01	10007
0. 65000E-01	0. 32500E-02	0. 70000E-03	0. 10000E-03	10010
0. 18200E+00	0. 91000E-02	0. 80000E-02	0. 10000E-02	10011
0. 73400E+02	0. 37000E+01	0. 41000E-01	0. 12000E-01	7153
0. 20000E+01	0. 10000E+00	0. 38000E-02	0. 10000E-02	T035
0. 11100E+02	0. 55500E+00	0. 56000E-01	0. 90000E-02	T043
0. 13400E+01	0. 70000E-01	0. 21000E-01	0. 78000E-02	7593
0. 63600E+02	0. 32000E+01	0. 91600E-01	0. 82000E-02	7196
0. 17400E-01	0. 87000E-03	0. 31100E-03	0. 22000E-04	10138
0. 16000E+01	0. 80000E-01	0. 50400E-01	0. 25200E-02	10140
0. 57400E-04	0. 21333E-05	0. 38900E-06	0. 19000E-06	10137



## CORRELATION RESULTS

Nuclides Tested for Correlation are 60-CO and 63-NI

Test made on 18-SEP-84

Sorting Criteria are :

PWR

Number of entries in the fit is 77

Zero Offset Value, B0, is 9.29864E-07

Correlation Ratio, B1, is 4.09180E-01

Standard Deviation in B0 is 1.13444E-06

Standard Deviation in B1 is 7.59568E-02

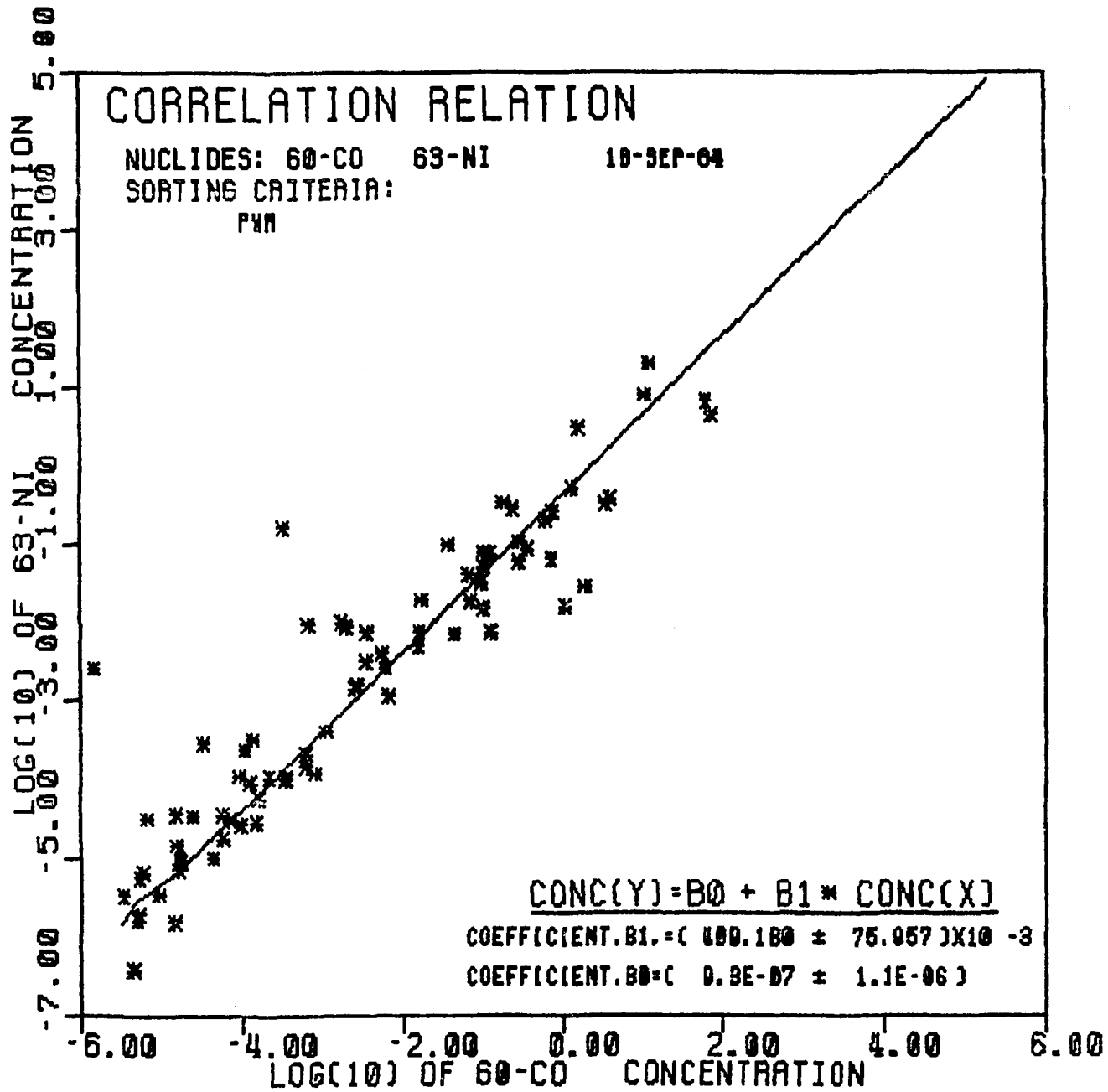
F-TEST Value is 43.463

Confidence Level for this Correlation is: 99. %

## PWR

0.12600E-03	0.64000E-05	0.90000E-04	0.45000E-05	7269
0.24400E-04	0.12200E-05	0.35000E-04	0.18000E-05	7267
0.70000E-04	0.40000E-05	0.31200E-04	0.15600E-05	6956
0.16500E-03	0.83000E-05	0.57200E-04	0.28600E-05	7268
0.35400E-03	0.17700E-04	0.10100E-03	0.50500E-05	6955
0.90000E-05	0.50000E-06	0.35200E-05	0.31700E-06	6724
0.81000E-03	0.40500E-04	0.12100E-03	0.60500E-05	6725
0.93100E-04	0.47000E-05	0.11200E-03	0.56000E-05	6729
0.49500E-05	0.65000E-06	0.16800E-05	0.10100E-06	6730
0.63000E-03	0.31500E-04	0.14900E-03	0.75000E-05	T089
0.44000E-05	0.22000E-06	0.39000E-06	0.19500E-07	6855
0.13200E-03	0.66000E-05	0.32600E-03	0.16300E-04	7164
0.17100E-02	0.86000E-04	0.10000E-01	0.50000E-03	7131
0.64700E-05	0.32350E-06	0.32800E-04	0.16000E-05	7050
0.16700E-04	0.83500E-06	0.99600E-05	0.50000E-06	6843
0.52800E-05	0.26400E-06	0.58500E-05	0.29200E-06	7049
0.14000E-04	0.10000E-05	0.15700E-05	0.76000E-07	6842
0.59500E-04	0.30000E-05	0.36000E-04	0.18000E-05	7655
0.15300E-04	0.80000E-06	0.15000E-04	0.77000E-06	7897
0.14800E-04	0.80000E-06	0.37000E-04	0.19000E-05	7924
0.17600E-04	0.90000E-06	0.91700E-05	0.45900E-06	7440
0.43800E-04	0.28000E-05	0.10200E-04	0.50800E-06	7567
0.21700E-03	0.11000E-04	0.10600E-03	0.53000E-05	7562
0.50800E-05	0.25400E-06	0.20100E-05	0.10000E-06	7654
0.57500E-05	0.29000E-06	0.65500E-05	0.33000E-06	8025
0.10600E-03	0.53000E-05	0.24100E-03	0.12050E-04	7917
0.16100E-04	0.12000E-05	0.73100E-05	0.36600E-06	7385
0.15400E-03	0.80000E-05	0.28900E-04	0.14450E-05	7386
0.33900E-05	0.17000E-06	0.34500E-05	0.17200E-06	8026
0.72700E+00	0.36350E-01	0.65400E-01	0.33000E-02	9502
0.60400E-02	0.67000E-03	0.26000E-02	0.29000E-03	9504
0.61000E+00	0.30500E-01	0.20100E+00	0.10000E-01	9507
0.34420E-03	0.15594E-04	0.10700E-03	0.53500E-05	9509
0.12700E+00	0.63500E-02	0.72000E-02	0.14000E-02	9510
0.33400E-03	0.17000E-03	0.16000E+00	0.80000E-02	T071
0.10300E+00	0.51500E-02	0.76500E-01	0.38250E-02	T072
0.12800E+00	0.64000E-02	0.72600E-01	0.36300E-02	T073
0.77000E+00	0.40000E-01	0.25400E+00	0.13000E-01	6958
0.10100E+00	0.51000E-02	0.50000E-01	0.75000E-02	7285
0.61100E-03	0.31000E-04	0.21000E-03	0.76000E-04	6957
0.11000E-02	0.10000E-03	0.41000E-03	0.15000E-03	6961
0.29000E+00	0.14500E-01	0.60100E-01	0.30050E-02	T077
0.10500E+00	0.52500E-02	0.15100E-01	0.10600E-02	7402
0.38700E+01	0.19350E+00	0.36300E+00	0.18200E-01	7149
0.10800E+01	0.54000E-01	0.15800E-01	0.79000E-03	T095
0.35000E-02	0.20000E-02	0.32000E-02	0.30000E-03	T040
0.27000E-02	0.13500E-03	0.16000E-02	0.16000E-03	6852
0.97100E-01	0.48550E-02	0.31300E-01	0.15700E-02	7689
0.43700E-01	0.22000E-02	0.71000E-02	0.85000E-03	8014
0.66400E-03	0.14400E-03	0.94800E-02	0.85300E-03	7399
0.19800E-02	0.99000E-04	0.87000E-02	0.60000E-03	7188
0.23700E+00	0.15000E-01	0.28200E+00	0.14100E-01	7445
0.12300E+02	0.61500E+00	0.19600E+02	0.11000E+01	10007
0.97700E-04	0.61932E-05	0.27200E-04	0.20522E-05	10008
0.65000E-01	0.32500E-02	0.41200E-01	0.20600E-02	10010
0.18200E+00	0.91000E-02	0.33100E+00	0.16550E-01	10011
0.73400E+02	0.37000E+01	0.44200E+01	0.22100E+00	7153
0.15700E-01	0.78500E-03	0.51600E-02	0.25800E-03	7154
0.20000E+01	0.10000E+00	0.28500E-01	0.14250E-02	T035
0.72000E-01	0.36000E-02	0.18700E-01	0.94000E-03	7147
0.15600E-01	0.78000E-03	0.75200E-02	0.38000E-03	7186

0. 14700E-05	0. 20000E-06	0. 25900E-02	0. 57000E-03	7065
0. 11100E+02	0. 55500E+00	0. 78000E+01	0. 40000E+00	T043
0. 13400E+01	0. 70000E-01	0. 49300E+00	0. 25000E-01	7593
0. 28500E+00	0. 14250E-01	0. 10500E+00	0. 52500E-02	8003
0. 55400E-02	0. 32000E-03	0. 40400E-02	0. 64600E-03	7444
0. 35700E-02	0. 10300E-02	0. 75200E-02	0. 75000E-03	7697
0. 32000E-04	0. 53000E-05	0. 29200E-03	0. 23000E-04	7602
0. 65800E-02	0. 38000E-03	0. 12000E-02	0. 17000E-03	7495
0. 25100E-02	0. 58000E-03	0. 14600E-02	0. 10200E-03	7605
0. 36900E+00	0. 18450E-01	0. 84500E-01	0. 42200E-02	7594
0. 63600E+02	0. 32000E+01	0. 65300E+01	0. 33000E+00	7196
0. 35300E+01	0. 18000E+00	0. 32900E+00	0. 16450E-01	7694
0. 17400E-01	0. 87000E-03	0. 19400E-01	0. 97000E-03	10138
0. 38100E-01	0. 19050E-02	0. 97300E-01	0. 48650E-02	10139
0. 16000E+01	0. 80000E-01	0. 30000E+01	0. 15000E+00	10140
0. 87400E-04	0. 21333E-05	0. 17870E-04	0. 90333E-06	10137





## CORRELATION RESULTS

Nuclides Tested for Correlation are 60-CO and 14-C

Test made on 18-SEP-84

Sorting Criteria are :

PWR

Number of entries in the fit is 60

Zero Offset Value, B0, is  $-9.10682E-08$

Correlation Ratio, B1, is  $1.40658E-01$

Standard Deviation in B0 is  $9.28112E-07$

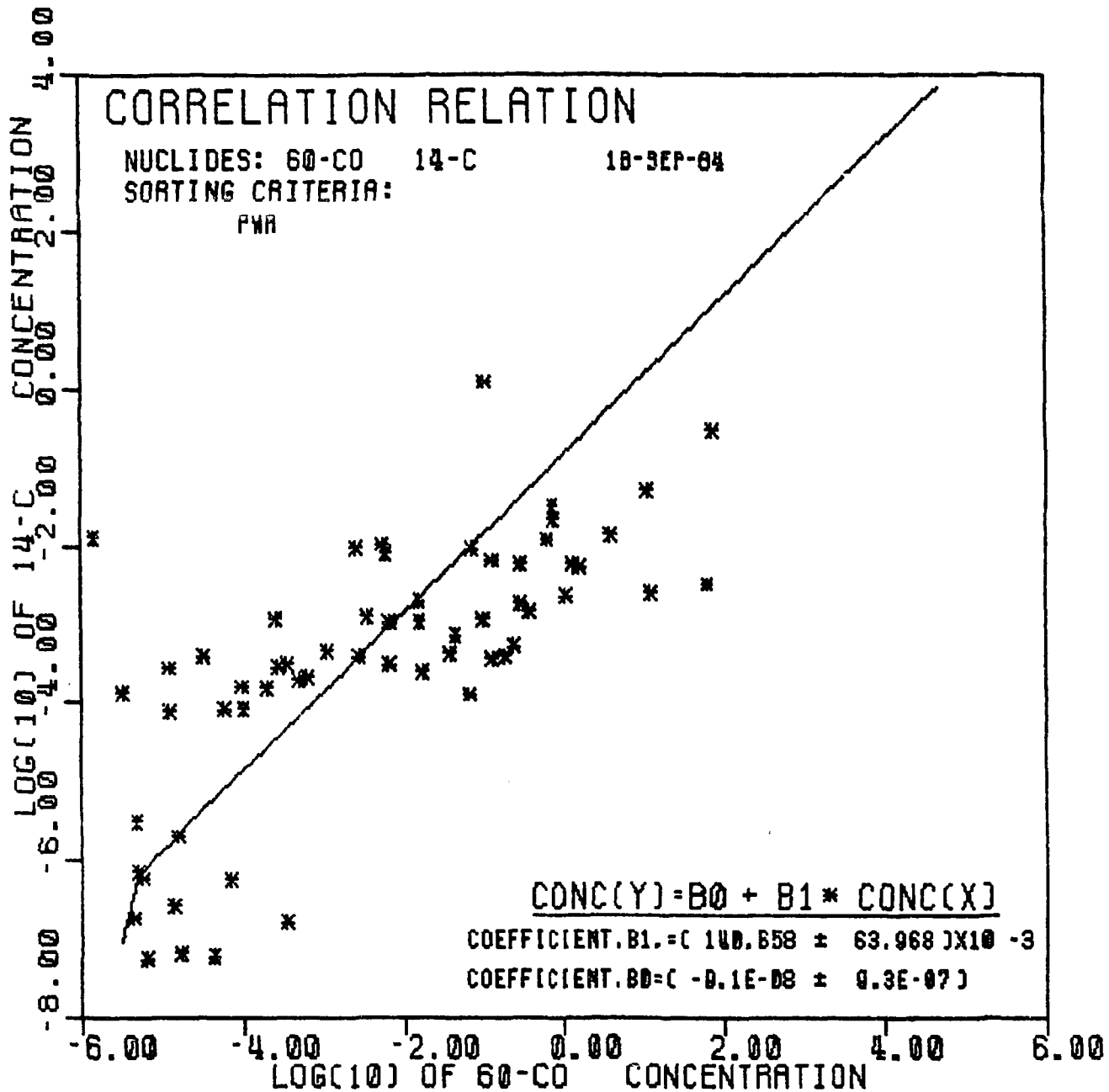
Standard Deviation in B1 is  $6.39683E-02$

F-TEST Value is 5.224

Confidence Level for this Correlation is: 97. %

PMR

0. 70000E-04	0. 40000E-05	0. 58300E-06	0. 29200E-07	6956
0. 49500E-05	0. 65000E-06	0. 31600E-05	0. 15800E-06	6730
0. 44000E-05	0. 22000E-06	0. 18900E-06	0. 94500E-08	6855
0. 64700E-05	0. 32350E-06	0. 56100E-07	0. 50000E-08	7050
0. 14000E-04	0. 10000E-05	0. 27500E-06	0. 14000E-07	6842
0. 17600E-04	0. 90000E-06	0. 67700E-07	0. 33900E-08	7440
0. 43800E-04	0. 28000E-05	0. 61400E-07	0. 30700E-08	7567
0. 50800E-05	0. 25400E-06	0. 73300E-06	0. 37000E-07	7654
0. 57500E-05	0. 29000E-06	0. 60000E-06	0. 30000E-07	8025
0. 16100E-04	0. 12000E-05	0. 20600E-05	0. 10300E-06	7385
0. 72700E+00	0. 36350E-01	0. 32300E-01	0. 16150E-02	9502
0. 60400E-02	0. 67000E-03	0. 81100E-02	0. 41000E-03	9504
0. 61000E+00	0. 30500E-01	0. 12200E-01	0. 61000E-03	9507
0. 34420E-03	0. 15594E-04	0. 16400E-06	0. 98200E-08	9509
0. 12700E+00	0. 63500E-02	0. 65600E-02	0. 33000E-03	9510
0. 12800E+00	0. 64000E-02	0. 38000E-03	0. 76000E-04	T073
0. 26400E-03	0. 13200E-04	0. 29000E-03	0. 88000E-04	7292
0. 77000E+00	0. 40000E-01	0. 22000E-01	0. 60000E-02	6958
0. 10000E-03	0. 70000E-05	0. 86000E-04	0. 43000E-04	6960
0. 25500E-03	0. 13000E-04	0. 12000E-02	0. 12000E-03	7288
0. 10100E+00	0. 51000E-02	0. 12300E+01	0. 62000E-01	7285
0. 61100E-03	0. 31000E-04	0. 21800E-03	0. 13000E-04	6957
0. 11000E-02	0. 10000E-03	0. 47000E-03	0. 24000E-04	6961
0. 12600E-04	0. 63000E-06	0. 28000E-03	0. 14000E-04	7290
0. 29000E+00	0. 14500E-01	0. 59400E-02	0. 42000E-03	T077
0. 38700E+01	0. 19350E+00	0. 13800E-01	0. 69000E-03	7149
0. 10800E+01	0. 54000E-01	0. 22700E-02	0. 11400E-03	T095
0. 27000E-02	0. 13500E-03	0. 39600E-03	0. 19800E-04	6852
0. 97100E-01	0. 48550E-02	0. 11900E-02	0. 71400E-04	7689
0. 43700E-01	0. 22000E-02	0. 73000E-03	0. 13000E-03	8014
0. 66100E-02	0. 33050E-03	0. 10600E-02	0. 74200E-04	8021
0. 23700E+00	0. 15000E-01	0. 53000E-03	0. 18000E-03	7445
0. 12300E+02	0. 61500E+00	0. 26000E-02	0. 13000E-03	10007
0. 97700E-04	0. 61932E-05	0. 16419E-03	0. 82000E-05	10008
0. 65000E-01	0. 32500E-02	0. 13100E-03	0. 65500E-05	10010
0. 18200E+00	0. 91000E-02	0. 40000E-03	0. 50000E-04	10011
0. 73400E+02	0. 37000E+01	0. 30000E+00	0. 12000E+00	7153
0. 15700E-01	0. 78500E-03	0. 20000E-02	0. 10000E-03	7154
0. 72000E-01	0. 36000E-02	0. 91300E-02	0. 46000E-03	7147
0. 15600E-01	0. 78000E-03	0. 11100E-02	0. 56000E-04	7186
0. 14700E-05	0. 20000E-06	0. 12900E-01	0. 64500E-03	7065
0. 11100E+02	0. 55500E+00	0. 51100E-01	0. 26000E-02	T043
0. 13400E+01	0. 70000E-01	0. 59000E-02	0. 11000E-02	7593
0. 28500E+00	0. 14250E-01	0. 18800E-02	0. 94000E-04	8003
0. 55400E-02	0. 32000E-03	0. 10500E-01	0. 52500E-03	7444
0. 35700E-02	0. 10300E-02	0. 12800E-02	0. 89600E-04	7697
0. 12500E-04	0. 29000E-05	0. 80000E-04	0. 80000E-05	7922
0. 32000E-04	0. 53000E-05	0. 39600E-03	0. 20000E-04	7602
0. 34500E-03	0. 52000E-04	0. 31700E-03	0. 22000E-04	7692
0. 19600E-03	0. 10000E-04	0. 16100E-03	0. 80500E-05	7684
0. 48100E-03	0. 24050E-04	0. 20000E-03	0. 14000E-04	7691
0. 33000E-05	0. 14500E-05	0. 13900E-03	0. 11000E-04	7926
0. 65800E-02	0. 38000E-03	0. 31000E-03	0. 12000E-03	7495
0. 25100E-02	0. 58000E-03	0. 94100E-02	0. 47100E-03	7605
0. 36900E+00	0. 18450E-01	0. 14800E-02	0. 74000E-04	7594
0. 63600E+02	0. 32000E+01	0. 33000E-02	0. 33000E-03	7196
0. 17400E-01	0. 87000E-03	0. 25400E-03	0. 12700E-04	10138
0. 38100E-01	0. 19050E-02	0. 44100E-03	0. 12000E-03	10139
0. 16000E+01	0. 80000E-01	0. 53200E-02	0. 30000E-03	10140
0. 57400E-04	0. 21333E-05	0. 85184E-04	0. 42351E-05	10137



## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 90-SR

Test made on 18-SEP-84

Sorting Criteria are :

BWR

Number of entries in the fit is 191

Zero Offset Value, B0, is 3.30727E-08

Correlation Ratio, B1, is 6.07862E-02

Standard Deviation in B0 is 1.02557E-07

Standard Deviation in B1 is 1.63781E-02

F-TEST Value is 14.773

Confidence Level for this Correlation is: 99. %

BWR

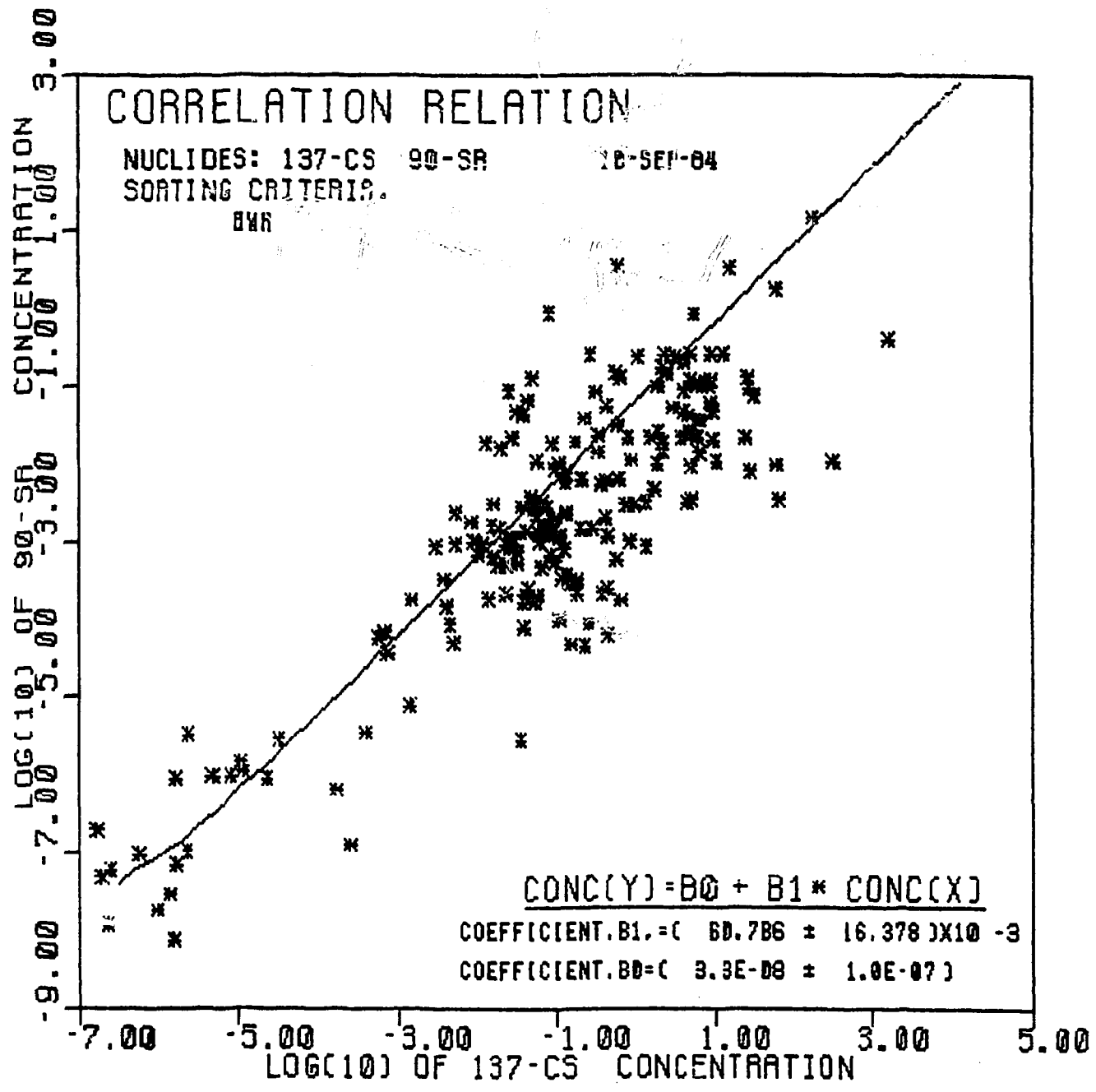
0. 16000E-05	0. 10000E-05	0. 71000E-07	0. 31000E-07	T050
0. 24000E-06	0. 90000E-07	0. 61000E-07	0. 79000E-08	T094
0. 18000E-06	0. 80000E-07	0. 50000E-07	0. 12000E-07	4727
0. 13300E-05	0. 41000E-06	0. 30000E-07	0. 22000E-08	6826
0. 22000E-06	0. 60000E-07	0. 12200E-07	0. 10000E-08	6806
0. 92000E-06	0. 42000E-06	0. 19000E-07	0. 37000E-08	6366
0. 15100E-05	0. 80000E-07	0. 76000E-08	0. 31000E-08	T016
0. 40000E-03	0. 20000E-04	0. 35300E-05	0. 19000E-06	T037
0. 23000E-05	0. 40000E-06	0. 11000E-06	0. 66000E-07	T017
0. 16000E-06	0. 11000E-06	0. 19800E-06	0. 12000E-07	T064
0. 56000E+01	0. 30000E+00	0. 84000E+00	0. 42000E-01	T065
0. 63000E+01	0. 31500E+00	0. 97700E-01	0. 48900E-02	T086
0. 51000E+01	0. 30000E+00	0. 25000E+00	0. 12500E-01	T048
0. 90000E+01	0. 45000E+00	0. 25300E+00	0. 13000E-01	T066
0. 32000E-01	0. 20000E-02	0. 74500E-03	0. 44700E-04	T055
0. 47700E+01	0. 24000E+00	0. 42000E-01	0. 21000E-02	6789
0. 67500E+01	0. 34000E+00	0. 10900E+00	0. 55000E-02	6786
0. 13400E+00	0. 70000E-02	0. 23400E-02	0. 11700E-03	T117
0. 62200E+01	0. 31100E+00	0. 21700E-01	0. 11000E-02	7058
0. 98000E+01	0. 50000E+00	0. 20000E-01	0. 10000E-02	7063
0. 31000E+01	0. 20000E+00	0. 53100E-01	0. 26600E-02	T069
0. 45800E-01	0. 23000E-02	0. 66800E-01	0. 33400E-02	T092
0. 45600E+00	0. 23000E-01	0. 64500E-04	0. 20000E-04	6996
0. 17900E+00	0. 89500E-02	0. 28600E-03	0. 14300E-04	7401
0. 42000E+01	0. 21000E+00	0. 20100E+00	0. 10000E-01	6378
0. 91000E+01	0. 50000E+00	0. 12100E+00	0. 80000E-02	6813
0. 43000E+01	0. 21500E+00	0. 46100E-01	0. 23000E-02	6379
0. 68000E+01	0. 34000E+00	0. 36000E-01	0. 40000E-02	6812
0. 25800E+01	0. 13000E+00	0. 14400E+00	0. 72000E-02	7087
0. 38300E+01	0. 19150E+00	0. 22000E-01	0. 11000E-02	7088
0. 28000E+02	0. 14000E+01	0. 94000E-01	0. 19000E-01	T010
0. 33000E+02	0. 20000E+01	0. 75000E-01	0. 15000E-01	T046
0. 51900E+01	0. 26000E+00	0. 95100E-02	0. 48000E-03	7062
0. 84900E+01	0. 42450E+00	0. 99500E-01	0. 50000E-02	7690
0. 23900E+01	0. 15000E+00	0. 25000E+00	0. 12500E-01	7686
0. 42400E+01	0. 21200E+00	0. 88000E-01	0. 44000E-02	7813
0. 96200E+01	0. 48100E+00	0. 48200E-01	0. 24100E-02	7913
0. 93300E+01	0. 47000E+00	0. 61900E-01	0. 31000E-02	7915
0. 21800E+01	0. 11000E+00	0. 17000E+00	0. 85000E-02	7449
0. 44900E+00	0. 22450E-01	0. 11500E-02	0. 11500E-03	7588
0. 18300E+00	0. 91500E-02	0. 33300E-03	0. 20000E-03	8002
0. 49800E+01	0. 25000E+00	0. 25400E-01	0. 13000E-02	7151
0. 51300E+01	0. 26000E+00	0. 23000E-01	0. 11500E-02	7150
0. 19700E+01	0. 10000E+00	0. 97900E-01	0. 49000E-02	7674
0. 32900E+03	0. 23800E+01	0. 10900E-01	0. 54500E-03	8023
0. 63000E+02	0. 31500E+01	0. 18000E+01	0. 90000E-01	T038
0. 51000E-01	0. 30000E-02	0. 13000E+00	0. 65000E-02	T007
0. 50000E+01	0. 25000E+00	0. 11800E+00	0. 59000E-02	T051
0. 18900E+01	0. 94500E-01	0. 98700E-02	0. 49000E-03	T054
0. 18800E+03	0. 94000E+01	0. 14500E+02	0. 15000E+01	T112
0. 65900E+02	0. 33000E+01	0. 34600E-02	0. 17300E-03	7450
0. 61700E+00	0. 31000E-01	0. 35000E+01	0. 18000E+00	7452
0. 26000E-01	0. 13000E-02	0. 88900E-01	0. 44500E-02	T070
0. 46000E+00	0. 23000E-01	0. 54100E-01	0. 27050E-02	T091
0. 27900E+00	0. 19000E-01	0. 25600E+00	0. 13000E-01	6792
0. 21200E+00	0. 13000E-01	0. 62000E-02	0. 22000E-02	6827
0. 37800E+00	0. 19000E-01	0. 53300E-02	0. 27000E-03	7448
0. 35000E+00	0. 17500E-01	0. 14200E-01	0. 71000E-03	7446
0. 16000E-01	0. 20000E-02	0. 30600E-02	0. 21000E-03	7076
0. 16000E-05	0. 80000E-06	0. 91000E-06	0. 10000E-06	10147
0. 15000E-02	0. 10000E-03	0. 18000E-03	0. 20000E-04	8329

0. 13700E+01	0. 68500E-01	0. 88000E-03	0. 50000E-04	9852
0. 16000E+01	0. 80000E-01	0. 22000E-01	0. 11000E-02	9853
0. 91000E-01	0. 45500E-02	0. 19000E-01	0. 10000E-02	9365
0. 55000E-02	0. 15000E-02	0. 76000E-03	0. 48000E-04	9367
0. 16200E+04	0. 90000E+02	0. 40000E+00	0. 20000E-01	9636
0. 51000E-01	0. 25500E-02	0. 30000E-02	0. 15000E-03	9634
0. 65700E+01	0. 34000E+00	0. 14000E-01	0. 10000E-02	9117
0. 77000E-01	0. 38500E-02	0. 16000E-02	0. 10000E-03	9118
0. 54000E-01	0. 40000E-02	0. 29000E-02	0. 14500E-03	9119
0. 58000E+00	0. 30000E-01	0. 15000E+00	0. 10000E-01	8090
0. 83000E-01	0. 19000E-01	0. 88000E+00	0. 50000E-01	8091
0. 26000E-01	0. 13000E-02	0. 88000E-03	0. 50000E-04	8092
0. 27000E-01	0. 13500E-02	0. 11000E-02	0. 10000E-03	8093
0. 90000E-02	0. 45000E-03	0. 10000E-02	0. 10000E-03	8094
0. 76000E-01	0. 38000E-02	0. 27000E-02	0. 13500E-03	9846
0. 59000E-01	0. 40000E-02	0. 10900E-01	0. 54500E-03	9847
0. 91000E+00	0. 45500E-01	0. 11300E-01	0. 56500E-03	9799
0. 33000E-01	0. 30000E-02	0. 48300E-01	0. 24200E-02	9800
0. 51100E+01	0. 27000E+00	0. 35000E-02	0. 50000E-03	7815
0. 15100E+00	0. 80000E-02	0. 29500E-03	0. 14750E-04	7816
0. 15000E+00	0. 80000E-01	0. 48000E-04	0. 11000E-04	7817
0. 36000E-01	0. 20000E-02	0. 29000E-05	0. 16000E-05	7818
0. 18200E+00	0. 91000E-01	0. 21000E-03	0. 10500E-04	7819
0. 91000E-01	0. 45500E-02	0. 16400E-02	0. 90000E-04	9330
0. 13400E+02	0. 90000E+00	0. 25000E+00	0. 12500E-01	9331
0. 12300E+00	0. 80000E-02	0. 82000E-03	0. 60000E-04	9332
0. 80000E-01	0. 18000E-01	0. 14400E-02	0. 14000E-03	9333
0. 13700E+00	0. 68500E-02	0. 36000E-03	0. 20000E-04	9854
0. 17000E+01	0. 85000E-01	0. 46000E-02	0. 23000E-03	9856
0. 26400E+02	0. 15000E+01	0. 13100E+00	0. 70000E-02	9806
0. 97000E-01	0. 14000E-01	0. 56000E-03	0. 30000E-04	9807
0. 22500E+01	0. 11250E+00	0. 15000E-01	0. 75000E-03	9808
0. 16200E+02	0. 81000E+00	0. 32600E+01	0. 17000E+00	9386
0. 14300E-02	0. 71500E-04	0. 79000E-05	0. 45000E-05	9980
0. 96800E+00	0. 48400E-01	0. 29400E-02	0. 14700E-03	9981
0. 63000E+00	0. 20000E+00	0. 63700E-02	0. 31850E-03	9982
0. 87000E-02	0. 39000E-02	0. 17900E-02	0. 89500E-04	10029
0. 55000E-02	0. 70000E-03	0. 23700E-02	0. 11850E-03	10030
0. 58400E-01	0. 29200E-02	0. 20100E-02	0. 10050E-03	10031
0. 32000E-01	0. 90000E-02	0. 52200E-03	0. 51000E-04	9997
0. 13000E+00	0. 70000E-01	0. 57200E-02	0. 28600E-03	9998
0. 42000E+00	0. 90000E-01	0. 61600E-02	0. 30800E-03	9999
0. 28500E+00	0. 14250E-01	0. 14600E-02	0. 73000E-04	10000
0. 11200E+00	0. 56000E-02	0. 12000E-02	0. 60000E-04	10001
0. 23000E-04	0. 16000E-04	0. 90000E-06	0. 38000E-06	10085
0. 50000E-01	0. 60000E-02	0. 26600E-02	0. 13300E-03	9969
0. 17100E-03	0. 85500E-05	0. 65200E-06	0. 38000E-07	9922
0. 32100E+00	0. 78000E-01	0. 83400E-01	0. 41700E-02	10168
0. 49000E-05	0. 13000E-05	0. 99000E-06	0. 27000E-06	10163
0. 59200E-01	0. 29600E-02	0. 20800E-03	0. 19000E-04	10164
0. 23700E-01	0. 11850E-02	0. 49000E-03	0. 60000E-04	10165
0. 34000E+00	0. 40000E-01	0. 23100E-01	0. 11550E-02	10166
0. 24000E+00	0. 30000E-01	0. 38600E-01	0. 19300E-02	10167
0. 10800E+00	0. 54000E-02	0. 98000E-04	0. 26000E-04	10186
0. 53724E-06	0. 19042E-06	0. 98000E-07	0. 19024E-07	10192
0. 11850E-04	0. 50955E-05	0. 11170E-05	0. 39608E-06	10195
0. 11117E+00	0. 55586E-02	0. 10500E-01	0. 52500E-03	10200
0. 98353E-01	0. 49177E-02	0. 89100E-02	0. 44550E-03	10201
0. 82846E+00	0. 74562E-01	0. 21200E-01	0. 10600E-02	10202
0. 42314E+00	0. 21157E-01	0. 20000E-02	0. 10000E-03	10203
0. 59130E-01	0. 29565E-02	0. 13400E-02	0. 67000E-04	10204
0. 20207E+00	0. 10104E-01	0. 14785E-02	0. 73927E-04	10229
0. 25056E-03	0. 12501E-04	0. 12869E-06	0. 63193E-07	10259

0. 29400E-01	0. 14700E-02	0. 11000E-02	0. 57200E-03	10261
0. 17881E+00	0. 89405E-02	0. 19605E-01	0. 98025E-03	10269
0. 57600E+00	0. 28800E-01	0. 58100E-03	0. 29050E-04	10270
0. 65455E+00	0. 32728E-01	0. 12568E+00	0. 62840E-02	10271
0. 23352E-01	0. 11676E-02	0. 21300E-03	0. 10650E-04	10318
0. 74455E+00	0. 37228E-01	0. 30100E-02	0. 15050E-03	10319
0. 22876E+00	0. 11438E-01	0. 46400E-04	0. 46400E-05	10320
0. 33111E-04	0. 89401E-05	0. 29800E-05	0. 47680E-06	10345
0. 45925E+00	0. 22913E-01	0. 24852E-03	0. 14911E-04	10347
0. 86041E+00	0. 43020E-01	0. 10100E-02	0. 53530E-03	10348
0. 62010E+00	0. 31005E-01	0. 31119E-01	0. 15560E-02	10384
0. 21658E+00	0. 10829E-01	0. 62562E-02	0. 31281E-03	10385
0. 57007E-03	0. 28504E-04	0. 57849E-04	0. 57849E-05	10386
0. 51876E-02	0. 31125E-03	0. 50567E-04	0. 31352E-04	10442
0. 64860E-01	0. 17512E-01	0. 32887E-02	0. 16444E-03	10407
0. 17928E-01	0. 89642E-03	0. 51112E-03	0. 30667E-04	10408
0. 13543E+00	0. 67715E-02	0. 22600E-02	0. 11300E-03	10409
0. 81200E-05	0. 33300E-05	0. 98600E-06	0. 48300E-06	10412
0. 38422E-01	0. 19211E-02	0. 16682E-03	0. 43373E-04	10414
0. 11738E-01	0. 70428E-03	0. 93358E-03	0. 46679E-04	10415
0. 23522E-01	0. 11996E-01	0. 92065E-03	0. 46033E-04	10416
0. 15800E-01	0. 83740E-02	0. 64656E-03	0. 38793E-04	10417
0. 11249E+00	0. 56245E-02	0. 11452E-02	0. 57261E-04	10418
0. 11877E+00	0. 59385E-02	0. 33547E-03	0. 20128E-04	10419
0. 55232E-01	0. 27616E-02	0. 16603E-03	0. 38187E-04	10424
0. 85645E-01	0. 42823E-02	0. 67381E-03	0. 67381E-04	10425
0. 36788E-01	0. 10301E-01	0. 28512E-02	0. 14256E-03	10426
0. 42869E-02	0. 34295E-03	0. 14815E-03	0. 16297E-04	10427
0. 14122E-01	0. 70611E-03	0. 19021E-03	0. 20923E-04	10428
0. 40268E-01	0. 20134E-02	0. 78990E-04	0. 33966E-04	10433
0. 10156E-01	0. 19296E-02	0. 68521E-03	0. 68521E-04	10434
0. 20149E+01	0. 10075E+00	0. 25400E-01	0. 12700E-02	10478
0. 13842E+01	0. 69210E-01	0. 32382E-02	0. 16191E-03	10479
0. 30792E-02	0. 24634E-03	0. 88690E-03	0. 44345E-04	10494
0. 47739E-01	0. 23870E-02	0. 38616E-02	0. 19308E-03	10495
0. 62917E-01	0. 31459E-02	0. 10151E-02	0. 50757E-04	10496
0. 84666E-01	0. 42333E-02	0. 15765E-02	0. 78825E-04	10497
0. 95269E-01	0. 47635E-02	0. 20924E-02	0. 10462E-03	10498
0. 82281E-01	0. 41141E-02	0. 12669E-02	0. 76013E-04	10499
0. 26121E+00	0. 13060E-01	0. 89172E-04	0. 10701E-04	10507
0. 10622E+02	0. 53110E+00	0. 10649E-01	0. 53245E-03	10508
0. 28146E+02	0. 14073E+01	0. 80809E-02	0. 40405E-03	10509
0. 25109E+02	0. 12555E+01	0. 21298E-01	0. 10649E-02	10510
0. 65763E+00	0. 32882E-01	0. 17714E-03	0. 10629E-04	10511
0. 19822E-01	0. 17840E-02	0. 14760E-02	0. 73802E-04	10536
0. 13247E+00	0. 66236E-02	0. 75565E-02	0. 37783E-03	10537
0. 73855E-03	0. 51698E-04	0. 35923E-04	0. 39515E-05	10538
0. 39892E-02	0. 79784E-03	0. 32971E-03	0. 15826E-03	10539
0. 23587E-05	0. 96708E-06	0. 33879E-05	0. 16940E-06	10579
0. 32512E+01	0. 16256E+00	0. 23845E+00	0. 11923E-01	10582
0. 65887E-01	0. 20425E-01	0. 47259E-03	0. 47259E-04	10449
0. 44684E-01	0. 13852E-01	0. 24808E-03	0. 86829E-04	10450
0. 43193E-01	0. 90706E-02	0. 20565E-03	0. 37018E-04	10451
0. 41865E-01	0. 20933E-02	0. 13624E-02	0. 68122E-04	10492
0. 62990E+02	0. 31495E+01	0. 97754E-02	0. 48877E-03	10493
0. 46175E-02	0. 36940E-03	0. 87423E-04	0. 21856E-04	10541
0. 10904E-04	0. 56700E-05	0. 15051E-05	0. 33111E-06	10544
0. 15681E-01	0. 64291E-02	0. 16275E-02	0. 81375E-04	10549
0. 71357E-03	0. 92764E-04	0. 68570E-04	0. 33599E-04	10550
0. 45519E+01	0. 22759E+00	0. 31933E-02	0. 15967E-03	10709
0. 38597E+00	0. 19299E-01	0. 21673E-03	0. 43346E-04	10710
0. 21382E-01	0. 14968E-02	0. 16112E-01	0. 80558E-03	10696
0. 40294E-01	0. 44324E-02	0. 43027E-01	0. 21514E-02	10697

0. 11116E+01	0. 28902E+00	0. 24099E+00	0. 12050E-01	10698
0. 28949E-01	0. 26055E-02	0. 21932E-01	0. 10966E-02	10699
0. 13645E-01	0. 12281E-02	0. 19943E-01	0. 95214E-03	10813
0. 22587E+01	0. 11274E+00	0. 18687E-01	0. 73446E-03	10814





## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 99-TC

Test made on 18-SEP-84

Sorting Criteria are :

BWR

Number of entries in the fit is 8

Zero Offset Value, B0, is  $-3.20091E-05$

Correlation Ratio, B1, is  $1.50451E-03$

Standard Deviation in B0 is  $1.51455E-04$

Standard Deviation in B1 is  $8.77367E-04$

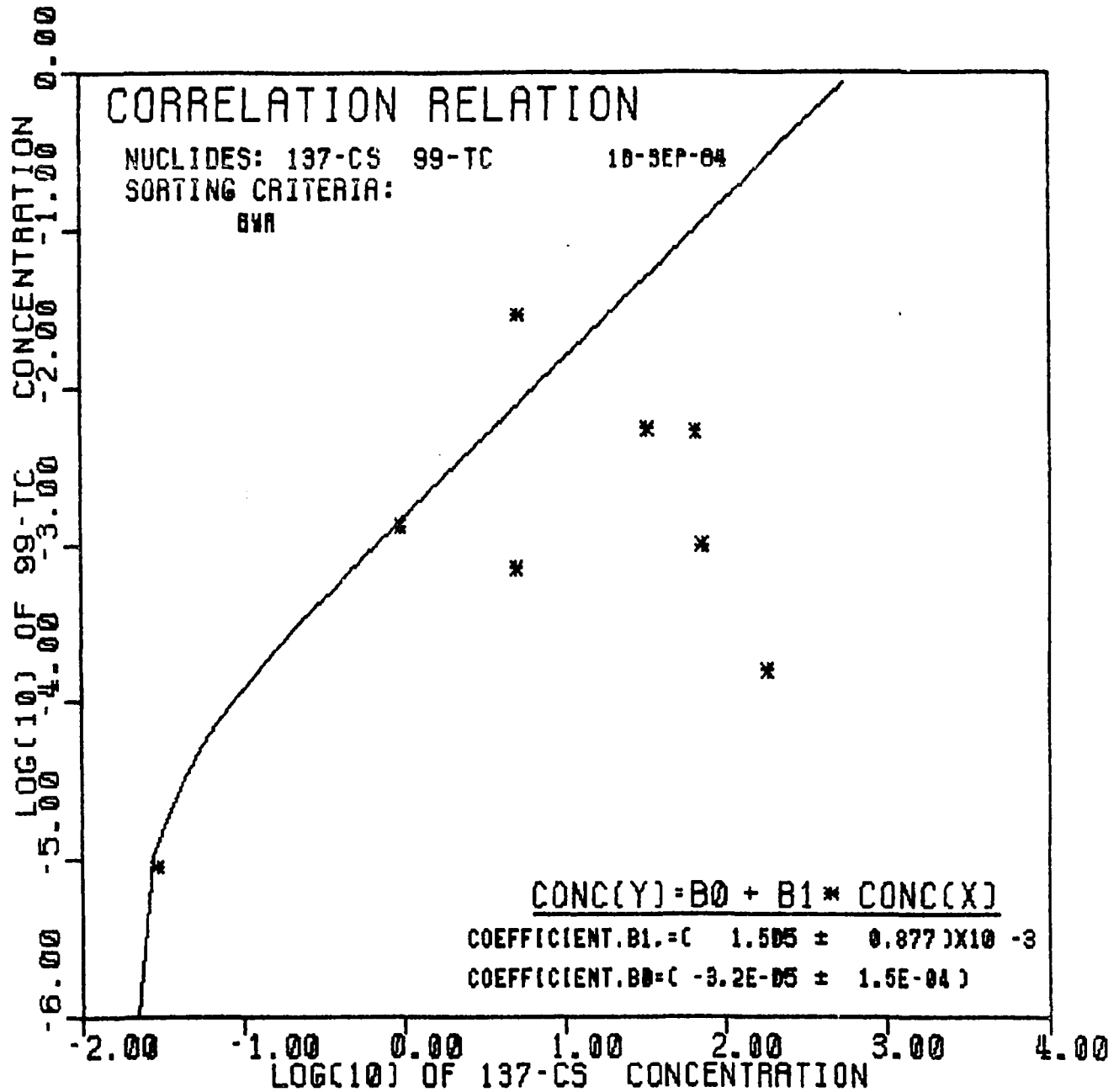
F-TEST Value is 4.366

Confidence Level for this Correlation is: 90. %

137-CB 99-TC 1

BWR

0.72000E+02	0.36000E+01	0.10000E-02	0.50000E-03	T087
0.33000E+02	0.20000E+01	0.55000E-02	0.80000E-03	T046
0.49800E+01	0.25000E+00	0.72000E-03	0.46000E-03	7151
0.51300E+01	0.26000E+00	0.29000E-01	0.50000E-02	7150
0.18800E+03	0.94000E+01	0.16000E-03	0.87000E-04	T112
0.65900E+02	0.33000E+01	0.53000E-02	0.90000E-03	7450
0.96800E+00	0.48400E-01	0.13000E-02	0.10000E-03	9981
0.29400E-01	0.14700E-02	0.90292E-03	0.34311E-03	10261



## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 129-I

Test made on 19-SEP-84

Sorting Criteria are :

BWR

Number of entries in the fit is 16

Zero Offset Value, B0, is 5.35952E-07

Correlation Ratio, B1, is 5.30094E-04

Standard Deviation in B0 is 1.95109E-06

Standard Deviation in B1 is 2.42271E-04

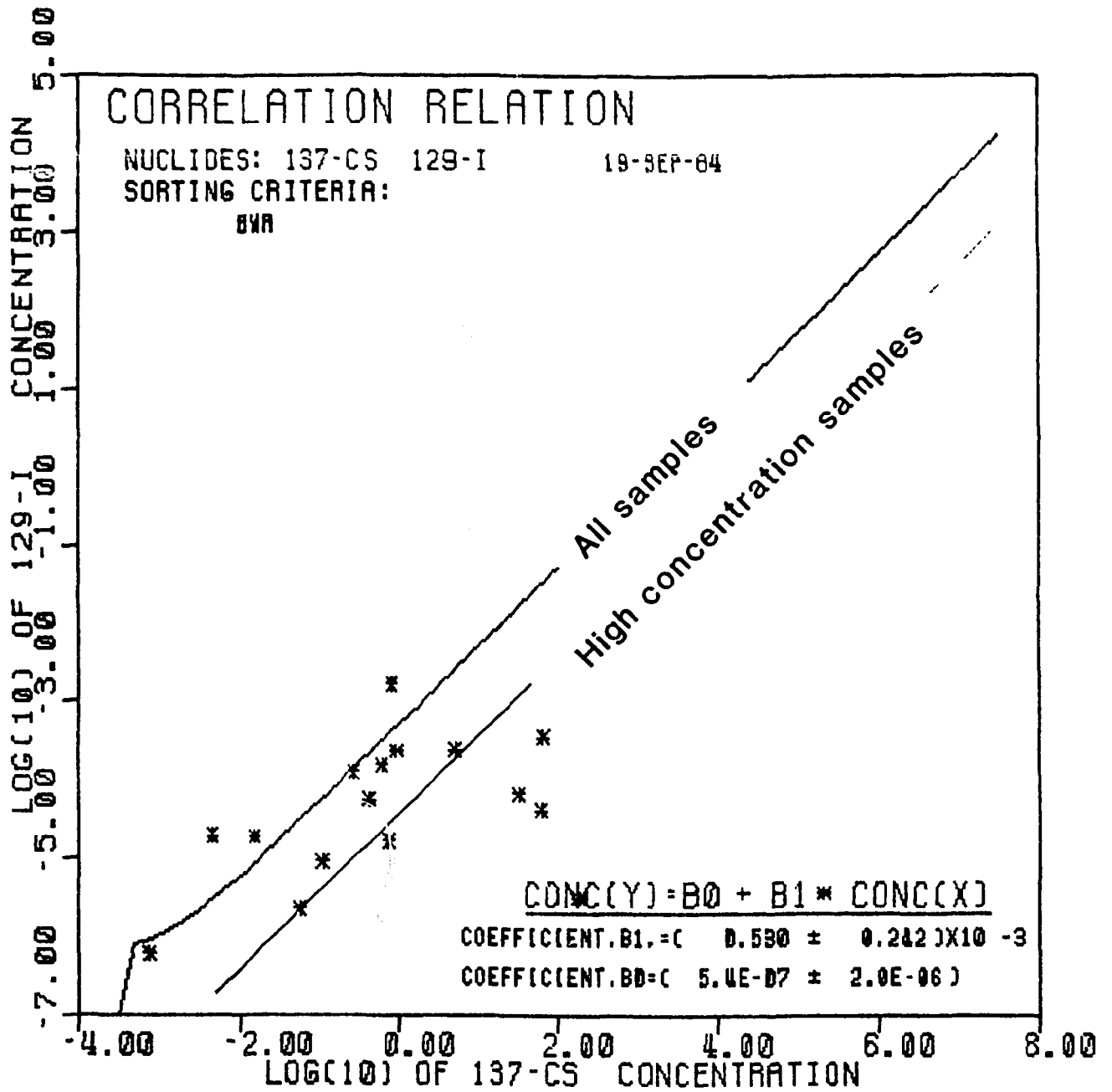
F-TEST Value is 6.555

Confidence Level for this Correlation is: 97. %

137-C8 129-I 1

BWR

0.33000E+02	0.20000E+01	0.69000E-04	0.17000E-04	T046
0.51300E+01	0.26000E+00	0.25000E-03	0.90000E-04	7150
0.18800E+03	0.94000E+01	0.32300E-05	0.15000E-05	T112
0.65900E+02	0.33000E+01	0.36000E-03	0.50000E-04	7450
0.27900E+00	0.19000E-01	0.12700E-03	0.11000E-04	6792
0.96800E+00	0.48400E-01	0.24000E-03	0.20000E-04	9981
0.63000E+00	0.20000E+00	0.16000E-03	0.50000E-04	9982
0.59200E-01	0.29600E-02	0.23000E-05	0.12000E-05	10164
0.82846E+00	0.74562E-01	0.17325E-02	0.13860E-03	10202
0.42314E+00	0.21157E-01	0.56959E-04	0.27340E-04	10203
0.74455E+00	0.37228E-01	0.17285E-04	0.43213E-05	10319
0.11249E+00	0.56245E-02	0.93802E-05	0.44087E-05	10418
0.73855E-03	0.51698E-04	0.62731E-06	0.33248E-06	10538
0.62990E+02	0.31495E+01	0.42370E-04	0.55032E-05	10493
0.46175E-02	0.56940E-03	0.19759E-04	0.12843E-04	10541
0.15681E-01	0.64291E-02	0.19000E-04	0.74100E-05	10549



## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 90-SR

Test made on 19-SEP-84

Sorting Criteria are :

PWR

Number of entries in the fit is 259

Zero Offset Value, B0, is 5.46584E-09

Correlation Ratio, B1, is 2.72770E-02

Standard Deviation in B0 is 5.34950E-10

Standard Deviation in B1 is 7.55580E-03

F-TEST Value is 13.387

Confidence Level for this Correlation is: 99. %



## PWR

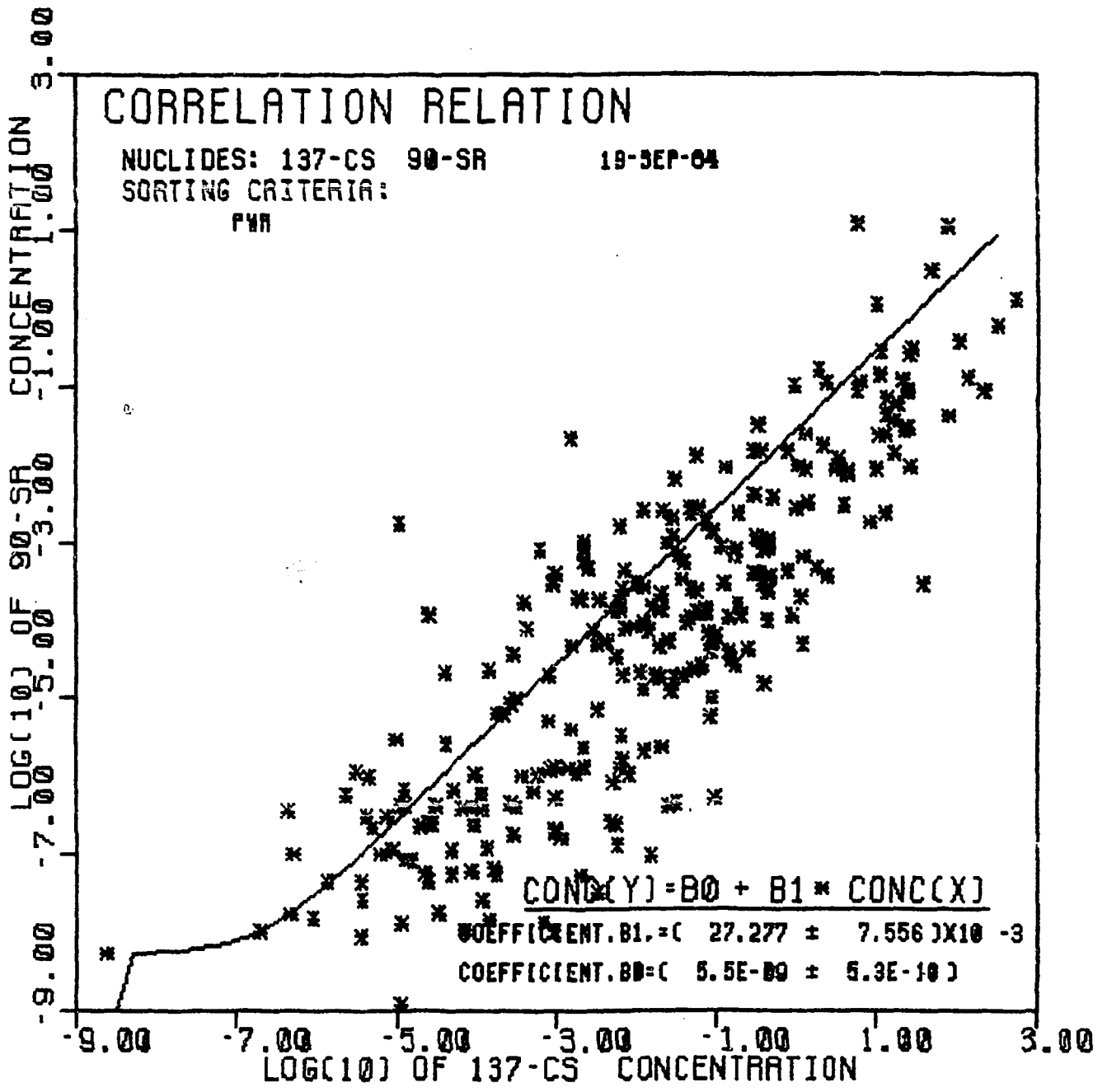
0. 51000E-04	0. 30000E-05	0. 66000E-06	0. 38000E-06	T076
0. 65000E-04	0. 32500E-05	0. 39000E-06	0. 39000E-07	6724
0. 23000E-05	0. 30000E-06	0. 57900E-06	0. 35000E-07	6725
0. 11400E-03	0. 60000E-05	0. 60000E-06	0. 36000E-07	6729
0. 86600E-04	0. 43300E-05	0. 62000E-07	0. 93000E-08	6730
0. 84800E-05	0. 42400E-06	0. 11400E-06	0. 17000E-07	7164
0. 10700E-04	0. 30000E-05	0. 17000E-02	0. 85000E-04	7131
0. 12500E-04	0. 62500E-06	0. 41600E-06	0. 20800E-07	7050
0. 46000E-06	0. 20000E-06	0. 35900E-06	0. 19000E-07	6843
0. 36000E-05	0. 20000E-06	0. 26600E-07	0. 48000E-08	6842
0. 19500E-04	0. 10000E-05	0. 22400E-06	0. 20000E-07	7897
0. 45300E-05	0. 49000E-06	0. 99300E-06	0. 49650E-07	7562
0. 41800E-05	0. 21000E-06	0. 31200E-06	0. 16000E-07	7433
0. 19400E-06	0. 65000E-07	0. 10600E-07	0. 39000E-08	8025
0. 15800E-03	0. 80000E-05	0. 68700E-07	0. 96200E-08	7395
0. 10700E-04	0. 53500E-06	0. 42900E-06	0. 34000E-07	7586
0. 50400E-06	0. 54000E-07	0. 10200E-06	0. 51000E-08	7432
0. 61000E+01	0. 24000E+01	0. 12300E+02	0. 61500E+00	9034
0. 38000E-01	0. 19000E-02	0. 20000E-04	0. 70000E-05	9652
0. 28600E-01	0. 14300E-02	0. 20000E-02	0. 10000E-02	10179
0. 31807E-01	0. 15900E-02	0. 45000E-06	0. 12000E-06	9760
0. 51213E-02	0. 25600E-03	0. 87000E-06	0. 15000E-06	9761
0. 47617E-02	0. 23800E-03	0. 27000E-06	0. 13000E-06	9762
0. 60000E+01	0. 44000E+00	0. 88000E-01	0. 50000E-02	9501
0. 48000E-06	0. 28000E-06	0. 17500E-07	0. 90000E-09	9503
0. 30400E+00	0. 15200E-01	0. 39500E-03	0. 19750E-04	9504
0. 11143E-02	0. 55500E-04	0. 16400E-06	0. 64345E-08	9505
0. 61000E-01	0. 30500E-02	0. 28000E-02	0. 20000E-03	9507
0. 30000E-04	0. 15000E-05	0. 42600E-06	0. 26886E-07	9509
0. 22700E-01	0. 11350E-02	0. 25000E-02	0. 12500E-03	9510
0. 57000E-01	0. 30000E-02	0. 13000E-01	0. 60000E-02	8316
0. 15400E+00	0. 77000E-02	0. 31000E-04	0. 15500E-05	9122
0. 28100E-03	0. 14050E-04	0. 17800E-06	0. 90000E-08	9805
0. 15500E-02	0. 80000E-04	0. 22000E-01	0. 11000E-02	T071
0. 36700E+00	0. 18350E-01	0. 15200E-01	0. 76000E-03	T072
0. 30600E+00	0. 15300E-01	0. 15300E-01	0. 76500E-03	T073
0. 32400E+03	0. 16200E+02	0. 59000E+00	0. 29500E-01	8470
0. 21000E-01	0. 10500E-02	0. 13700E-03	0. 68500E-05	8472
0. 76000E-01	0. 40000E-02	0. 13400E-03	0. 67000E-05	8473
0. 49000E-04	0. 24500E-05	0. 11200E-06	0. 12000E-07	9604
0. 15100E-01	0. 75500E-03	0. 96000E-07	0. 10000E-07	9605
0. 37200E-03	0. 18600E-04	0. 10400E-05	0. 11000E-06	9606
0. 47000E-04	0. 23500E-05	0. 58000E-07	0. 60000E-08	9608
0. 17900E-03	0. 89500E-05	0. 59000E-07	0. 60000E-08	9609
0. 10800E-04	0. 54000E-06	0. 13000E-07	0. 30000E-08	9610
0. 97000E-04	0. 48500E-05	0. 10600E-05	0. 60000E-07	9471
0. 14400E-03	0. 72000E-05	0. 15000E-07	0. 80000E-08	9472
0. 97000E-03	0. 48500E-04	0. 13300E-05	0. 70000E-07	9473
0. 62000E-05	0. 11000E-05	0. 10300E-06	0. 15000E-07	9474
0. 99000E-03	0. 49500E-04	0. 53000E-06	0. 30000E-07	9475
0. 58300E-03	0. 29150E-04	0. 11000E-05	0. 60000E-07	9476
0. 15600E-04	0. 22000E-05	0. 86000E-07	0. 12000E-07	9478
0. 86000E-01	0. 43000E-02	0. 40000E-04	0. 20000E-05	9479
0. 41000E-04	0. 90000E-05	0. 27800E-05	0. 14000E-06	9480
0. 12000E-03	0. 60000E-05	0. 38000E-06	0. 20000E-07	9481
0. 88000E-04	0. 44000E-05	0. 41000E-06	0. 20500E-07	9482
0. 14000E-03	0. 70000E-05	0. 22600E-04	0. 12000E-05	9483
0. 95000E-03	0. 47500E-04	0. 19200E-06	0. 10000E-07	9484
0. 86000E-01	0. 43000E-02	0. 59000E-05	0. 30000E-06	9485
0. 14300E-02	0. 71500E-04	0. 13000E-05	0. 60000E-06	9767
0. 33300E-04	0. 16650E-05	0. 18000E-07	0. 30000E-08	9768

0. 15000E-02	0. 30000E-03	0. 41000E-05	0. 20500E-06	9771
0. 24400E-04	0. 12200E-05	0. 45000E-07	0. 30000E-08	9772
0. 15000E-02	0. 20000E-03	0. 48000E-04	0. 24000E-05	9773
0. 72000E-04	0. 36000E-05	0. 11000E-07	0. 30000E-08	9774
0. 11800E-03	0. 59000E-05	0. 26000E-07	0. 80000E-08	9775
0. 26800E-03	0. 13400E-04	0. 45000E-06	0. 22500E-07	9778
0. 68000E-03	0. 34000E-04	0. 14000E-07	0. 30000E-08	9779
0. 22700E+03	0. 11350E+02	0. 88000E-01	0. 44000E-02	9245
0. 42600E-02	0. 21300E-03	0. 54500E-04	0. 29000E-05	7292
0. 42000E-03	0. 21000E-04	0. 79000E-04	0. 24000E-04	6960
0. 61700E-02	0. 31000E-03	0. 13500E-03	0. 67500E-05	7288
0. 88100E-01	0. 44050E-02	0. 10400E-04	0. 59000E-05	7285
0. 19800E-01	0. 10000E-02	0. 47000E-04	0. 14000E-04	6957
0. 34000E-01	0. 20000E-02	0. 66700E-03	0. 47000E-04	6961
0. 39700E-04	0. 30000E-05	0. 21000E-04	0. 16000E-05	7290
0. 12200E+01	0. 61000E-01	0. 51200E-04	0. 25600E-05	7148
0. 34000E+00	0. 20000E-01	0. 10900E-02	0. 55000E-04	T077
0. 39600E-03	0. 18000E-03	0. 16800E-03	0. 77300E-04	7402
0. 20000E+00	0. 13000E-01	0. 23500E-02	0. 11750E-03	7149
0. 55000E-02	0. 30000E-03	0. 34000E-04	0. 14000E-04	6852
0. 32800E+01	0. 16400E+00	0. 83700E-02	0. 62000E-03	7162
0. 30300E+00	0. 15150E-01	0. 39600E-02	0. 35000E-03	7163
0. 40000E-01	0. 22000E-02	0. 53000E-03	0. 10000E-03	7689
0. 37100E-01	0. 18550E-02	0. 33000E-03	0. 11000E-03	8014
0. 63700E-03	0. 32000E-04	0. 79000E-03	0. 13000E-03	7188
0. 25400E+01	0. 12700E+00	0. 36200E-03	0. 19000E-04	7606
0. 48500E-02	0. 24250E-03	0. 13600E-03	0. 88400E-04	8021
0. 40700E+01	0. 20350E+00	0. 29200E-02	0. 15000E-03	7445
0. 22000E+01	0. 50000E+00	0. 17500E-01	0. 87500E-03	10007
0. 99000E-02	0. 49500E-03	0. 83300E-04	0. 41650E-05	10010
0. 28500E+02	0. 14250E+01	0. 29500E+00	0. 14750E-01	7153
0. 19200E-01	0. 96000E-03	0. 18000E-04	0. 63000E-05	7154
0. 30000E-01	0. 20000E-02	0. 65000E-02	0. 50000E-03	6841
0. 27500E+02	0. 14000E+01	0. 91400E-02	0. 45700E-03	7287
0. 14500E+01	0. 72500E-01	0. 31000E-02	0. 15500E-03	T035
0. 39600E+00	0. 20000E-01	0. 15900E-04	0. 10000E-05	7158
0. 31900E-02	0. 21000E-03	0. 48000E-04	0. 67000E-05	7147
0. 43400E+00	0. 22000E-01	0. 10100E-03	0. 50500E-03	7186
0. 22000E-02	0. 11000E-03	0. 10500E-02	0. 13700E-03	7065
0. 88000E-06	0. 79000E-07	0. 15300E-07	0. 80000E-09	7439
0. 12800E+01	0. 64000E-01	0. 65600E-03	0. 33000E-04	7593
0. 13700E+00	0. 70000E-02	0. 90500E-02	0. 45200E-03	8003
0. 18700E+01	0. 93500E-01	0. 46500E-03	0. 93000E-04	7444
0. 44600E+00	0. 22300E-01	0. 10800E-02	0. 13000E-03	7697
0. 29500E-02	0. 15000E-03	0. 72000E-04	0. 35000E-04	7602
0. 77300E-01	0. 39000E-02	0. 13000E-03	0. 44000E-04	7692
0. 11200E-01	0. 60000E-03	0. 22000E-04	0. 53000E-05	7684
0. 18300E-02	0. 91500E-04	0. 20000E-03	0. 32000E-04	7691
0. 25000E-04	0. 28000E-05	0. 12000E-03	0. 13000E-04	7926
0. 77800E-01	0. 39000E-02	0. 17000E-02	0. 90000E-04	7495
0. 49500E-01	0. 25000E-02	0. 23600E-02	0. 11800E-03	7605
0. 44800E+00	0. 22400E-01	0. 83700E-03	0. 83700E-04	7594
0. 23800E-08	0. 12000E-09	0. 55300E-08	0. 27650E-09	C001
0. 13900E+02	0. 69500E+00	0. 70700E-01	0. 35350E-02	10056
0. 11300E+02	0. 56500E+00	0. 23600E-01	0. 11800E-02	10057
0. 13174E-03	0. 61655E-05	0. 12480E-06	0. 44162E-08	10058
0. 32895E-02	0. 16400E-03	0. 33300E-07	0. 29618E-08	10059
0. 56100E+03	0. 28050E+02	0. 12500E+01	0. 62500E-01	10062
0. 17400E+00	0. 10000E-01	0. 67100E-03	0. 33550E-04	10064
0. 63900E-01	0. 31950E-02	0. 12400E-03	0. 70000E-05	10065
0. 23000E+02	0. 11500E+01	0. 27100E-01	0. 13550E-02	10066
0. 35000E-05	0. 11000E-05	0. 92000E-08	0. 22000E-08	9994
0. 34000E-05	0. 17000E-05	0. 46800E-07	0. 31000E-08	9995

0. 28700E-01	0. 18000E-02	0. 11400E-02	0. 57000E-04	9963
0. 50200E-03	0. 25100E-04	0. 65300E-06	0. 87000E-07	10121
0. 86400E+01	0. 43200E+00	0. 18000E-02	0. 10000E-03	10076
0. 11000E-04	0. 70000E-05	0. 12000E-08	0. 70000E-10	10078
0. 17200E+02	0. 86000E+00	0. 13500E-01	0. 10000E-02	10108
0. 66300E+01	0. 33150E+00	0. 11400E+00	0. 10000E-01	10109
0. 21100E-01	0. 10550E-02	0. 21600E-03	0. 10800E-04	10110
0. 14200E-01	0. 71000E-03	0. 74900E-04	0. 39000E-05	10111
0. 32800E-02	0. 16400E-03	0. 74000E-05	0. 10000E-05	10112
0. 25400E-02	0. 69000E-03	0. 46000E-03	0. 50000E-04	10113
0. 25900E+02	0. 12950E+01	0. 29100E-01	0. 14550E-02	10114
0. 21100E-02	0. 11000E-03	0. 19000E-03	0. 30000E-04	10116
0. 17200E-01	0. 86000E-03	0. 20200E-04	0. 10100E-05	10138
0. 46500E-01	0. 23250E-02	0. 10800E-03	0. 35000E-04	10139
0. 44400E+00	0. 29000E-01	0. 23200E-03	0. 25000E-04	10140
0. 31800E-03	0. 15900E-04	0. 41224E-06	0. 67013E-07	10137
0. 94000E-04	0. 47000E-05	0. 24000E-06	0. 70000E-07	10149
0. 92200E-01	0. 46100E-02	0. 52800E-04	0. 26400E-05	10155
0. 17700E-03	0. 88500E-05	0. 65000E-05	0. 11000E-05	10156
0. 44400E+01	0. 22200E+00	0. 71700E-02	0. 35850E-03	10157
0. 81600E-02	0. 40800E-03	0. 11000E-05	0. 30000E-06	10158
0. 90500E-01	0. 45250E-02	0. 14000E-02	0. 30000E-03	10161
0. 12200E-04	0. 61000E-06	0. 67000E-06	0. 80000E-07	10172
0. 95600E-03	0. 47800E-04	0. 22000E-06	0. 80000E-07	10171
0. 90600E-03	0. 45300E-04	0. 29000E-03	0. 70000E-04	10175
0. 95500E-03	0. 47750E-04	0. 40000E-03	0. 50000E-04	10176
0. 96200E-01	0. 48100E-02	0. 63000E-04	0. 70000E-05	10160
0. 17700E-03	0. 88500E-05	0. 65000E-05	0. 11000E-05	10156
0. 10692E+02	0. 53460E+00	0. 10849E+01	0. 54229E-01	10207
0. 44482E+01	0. 22241E+00	0. 82773E-02	0. 41386E-03	10208
0. 78500E+02	0. 39250E+01	0. 10958E+02	0. 54790E+00	10209
0. 27650E-01	0. 13808E-02	0. 12616E-04	0. 63003E-06	10206
0. 12606E-01	0. 62955E-03	0. 22000E-05	0. 44000E-06	10205
0. 41200E-01	0. 20600E-02	0. 93024E-04	0. 33489E-04	10212
0. 25900E-01	0. 12950E-02	0. 55486E-04	0. 29408E-04	10213
0. 21636E-02	0. 10818E-03	0. 24260E-05	0. 41242E-06	10248
0. 65535E-02	0. 32768E-03	0. 17279E-05	0. 39742E-06	10249
0. 13800E+02	0. 69000E+00	0. 43891E-01	0. 21946E-02	10246
0. 62549E-02	0. 75058E-03	0. 17184E-03	0. 67016E-04	10247
0. 26408E-03	0. 66020E-04	0. 85988E-05	0. 16338E-05	10230
0. 14232E+00	0. 99624E-02	0. 10709E-03	0. 12851E-04	10236
0. 10000E+01	0. 50000E-01	0. 99077E-01	0. 49539E-02	10237
0. 52100E+02	0. 26050E+01	0. 30250E+01	0. 15125E+00	10238
0. 11505E+00	0. 57525E-02	0. 84775E-03	0. 42387E-04	10274
0. 24715E-01	0. 12358E-02	0. 41600E-06	0. 20800E-07	10285
0. 22850E+02	0. 11425E+01	0. 12000E+00	0. 60000E-02	10286
0. 25907E+03	0. 12953E+01	0. 85300E-01	0. 42650E-02	10287
0. 64390E-02	0. 32181E-03	0. 33536E-05	0. 90547E-06	10307
0. 16527E-01	0. 82598E-03	0. 15180E-03	0. 75855E-05	10308
0. 20165E+01	0. 10083E+00	0. 15898E+00	0. 79492E-02	10311
0. 12074E+02	0. 60370E+00	0. 27985E+00	0. 13993E-01	10312
0. 21800E-02	0. 10900E-03	0. 59704E-03	0. 16120E-03	10313
0. 14465E+03	0. 72325E+01	0. 13100E+00	0. 65500E-02	10293
0. 13074E+00	0. 90370E-02	0. 80800E-03	0. 40400E-04	10294
0. 27668E-04	0. 15217E-04	0. 25293E-06	0. 22764E-07	10364
0. 13187E+01	0. 65936E-01	0. 24608E-01	0. 12304E-02	10399
0. 79906E+00	0. 47943E-01	0. 15074E-01	0. 75370E-03	10400
0. 49702E-05	0. 34791E-06	0. 22354E-06	0. 12071E-06	10462
0. 78182E-03	0. 38309E-03	0. 52089E-05	0. 52089E-06	10466
0. 17904E-02	0. 14324E-03	0. 11150E-05	0. 40141E-06	10467
0. 93338E-03	0. 46669E-04	0. 10708E-07	0. 54610E-08	10457
0. 50068E-01	0. 25034E-02	0. 23239E-04	0. 11619E-05	10275
0. 62822E-02	0. 31411E-03	0. 13015E-05	0. 31236E-06	10277

0. 29557E-01	0. 14779E-02	0. 18365E-04	0. 91825E-06	10278
0. 86882E-03	0. 43441E-04	0. 12229E-05	0. 64815E-06	10279
0. 22045E-02	0. 11022E-03	0. 80671E-03	0. 40336E-04	10280
0. 63524E-02	0. 31762E-03	0. 16300E-02	0. 97800E-04	10283
0. 46671E-01	0. 23336E-02	0. 28200E-02	0. 14100E-03	10290
0. 12485E-01	0. 13734E-02	0. 24700E-02	0. 12350E-03	10305
0. 66173E-02	0. 33087E-03	0. 25054E-03	0. 12527E-04	10306
0. 13906E+00	0. 69530E-02	0. 41000E-04	0. 41000E-05	10302
0. 11726E+02	0. 58630E+00	0. 14089E+00	0. 70447E-02	10387
0. 95600E-05	0. 57360E-06	0. 30362E-05	0. 15181E-06	10329
0. 10246E+02	0. 51230E+00	0. 87100E-02	0. 43550E-03	10330
0. 43961E+00	0. 21980E-01	0. 94418E-03	0. 56651E-04	10335
0. 10920E+01	0. 87359E-01	0. 97733E-02	0. 48867E-03	10336
0. 64618E-01	0. 32309E-02	0. 26706E-04	0. 50741E-05	10337
0. 40499E+02	0. 20250E+01	0. 30188E-03	0. 39244E-04	10340
0. 17600E+00	0. 88000E-02	0. 27000E-04	0. 10260E-04	10349
0. 11500E+01	0. 57500E-01	0. 20400E-03	0. 18360E-04	10350
0. 89949E+00	0. 44975E-01	0. 11692E-03	0. 12861E-04	10352
0. 68941E-02	0. 34471E-03	0. 78793E-04	0. 49639E-04	10354
0. 12268E-01	0. 61340E-03	0. 26116E-03	0. 75737E-04	10357
0. 35705E-02	0. 17853E-03	0. 18848E-03	0. 64085E-04	10360
0. 24463E-01	0. 12232E-02	0. 96601E-03	0. 86941E-04	10363
0. 21115E+00	0. 10558E-01	0. 12000E-03	0. 46800E-04	10397
0. 12804E-01	0. 64020E-03	0. 95749E-04	0. 42130E-04	10398
0. 25768E+00	0. 12884E-01	0. 42428E-04	0. 55156E-05	10444
0. 17677E+02	0. 88385E+00	0. 35793E-01	0. 17896E-02	10445
0. 10865E+03	0. 54327E+01	0. 38089E+00	0. 19045E-01	10446
0. 27058E+02	0. 13529E+01	0. 26163E+00	0. 13082E-01	10447
0. 80622E-03	0. 40311E-03	0. 19488E-04	0. 85746E-05	10448
0. 13401E+02	0. 67007E+00	0. 24072E-02	0. 12036E-03	10556
0. 20591E-01	0. 10291E-02	0. 24055E-05	0. 10720E-06	10501
0. 22443E-02	0. 11213E-03	0. 13688E-05	0. 67813E-07	10503
0. 76666E-05	0. 38333E-06	0. 30595E-06	0. 15298E-07	10520
0. 24624E-04	0. 12312E-05	0. 25465E-06	0. 12732E-07	10521
0. 12154E-04	0. 60770E-06	0. 87969E-07	0. 79172E-08	10522
0. 22589E-04	0. 11295E-05	0. 59371E-07	0. 71245E-08	10524
0. 12607E+00	0. 63037E-02	0. 28785E-03	0. 14393E-04	10526
0. 34806E+00	0. 17403E-01	0. 40411E-03	0. 36370E-04	10528
0. 10504E+01	0. 52520E-01	0. 26832E-02	0. 13416E-03	10529
0. 50962E+00	0. 25481E-01	0. 36974E-02	0. 18487E-03	10530
0. 19646E+02	0. 98230E+00	0. 61078E-01	0. 30539E-02	10531
0. 35462E+00	0. 24823E-01	0. 32396E-01	0. 16198E-02	10532
0. 71268E-02	0. 64141E-03	0. 42787E-03	0. 21393E-04	10551
0. 56989E-01	0. 28495E-02	0. 12502E-03	0. 66263E-04	10552
0. 21993E-03	0. 10997E-04	0. 63193E-05	0. 31597E-06	10557
0. 30578E-03	0. 42809E-04	0. 10441E-04	0. 52205E-06	10563
0. 80000E+02	0. 40000E+01	0. 41800E-01	0. 20900E-02	10569
0. 25900E+02	0. 13000E+01	0. 87800E-01	0. 43900E-02	10570
0. 25424E+01	0. 45763E+00	0. 10826E+00	0. 54130E-02	10571
0. 34400E+01	0. 17200E+00	0. 11600E-01	0. 58000E-03	10572
0. 48300E+00	0. 24200E-01	0. 36000E-03	0. 36000E-04	10575
0. 13300E+01	0. 66500E-01	0. 88300E-02	0. 44200E-03	10576
0. 99800E-02	0. 69900E-03	0. 30000E-03	0. 36000E-04	10577
0. 13300E+02	0. 66500E+00	0. 23452E-01	0. 11726E-02	10681
0. 28500E-03	0. 14250E-04	0. 36714E-04	0. 19091E-04	10683
0. 81700E+00	0. 40850E-01	0. 44471E-03	0. 53365E-04	10684
0. 39476E+00	0. 19738E-01	0. 28806E-03	0. 48970E-04	10331
0. 56000E-02	0. 28000E-03	0. 13600E-06	0. 95000E-08	10333
0. 53500E-02	0. 26800E-03	0. 25000E-06	0. 17500E-07	10334
0. 33135E+00	0. 16568E-01	0. 11845E-02	0. 59227E-04	10338
0. 19900E-02	0. 99500E-04	0. 55200E-07	0. 77500E-08	10339
0. 58062E-01	0. 29031E-02	0. 23727E-03	0. 14236E-04	10553
0. 49411E-01	0. 24706E-02	0. 24784E-03	0. 14871E-04	10554

0. 12199E-01	0. 60994E-03	0. 12973E-04	0. 64864E-06	10555
0. 13369E-05	0. 14706E-06	0. 45456E-07	0. 10000E-07	10645
0. 67528E-02	0. 33764E-03	0. 20400E-04	0. 10200E-05	10759
0. 98829E-01	0. 49414E-02	0. 53512E-06	0. 19729E-06	10760
0. 30420E-05	0. 15514E-05	0. 11283E-05	0. 55866E-07	10727
0. 38996E+00	0. 19498E-01	0. 81810E-03	0. 40905E-04	10729
0. 80115E-01	0. 40058E-02	0. 69900E-04	0. 34950E-05	10730
0. 63724E-01	0. 31662E-02	0. 25400E-04	0. 12700E-05	10781
0. 18779E+00	0. 74775E-02	0. 16478E-03	0. 47434E-04	10732



## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 99-TC

Test made on 19-SEP-84

Sorting Criteria are :

PWR

Number of entries in the fit is 22

Zero Offset Value, B0, is 1.25404E-08

Correlation Ratio, B1, is 3.43538E-03

Standard Deviation in B0 is 2.07929E-08

Standard Deviation in B1 is 3.13989E-03

F-TEST Value is 1.152

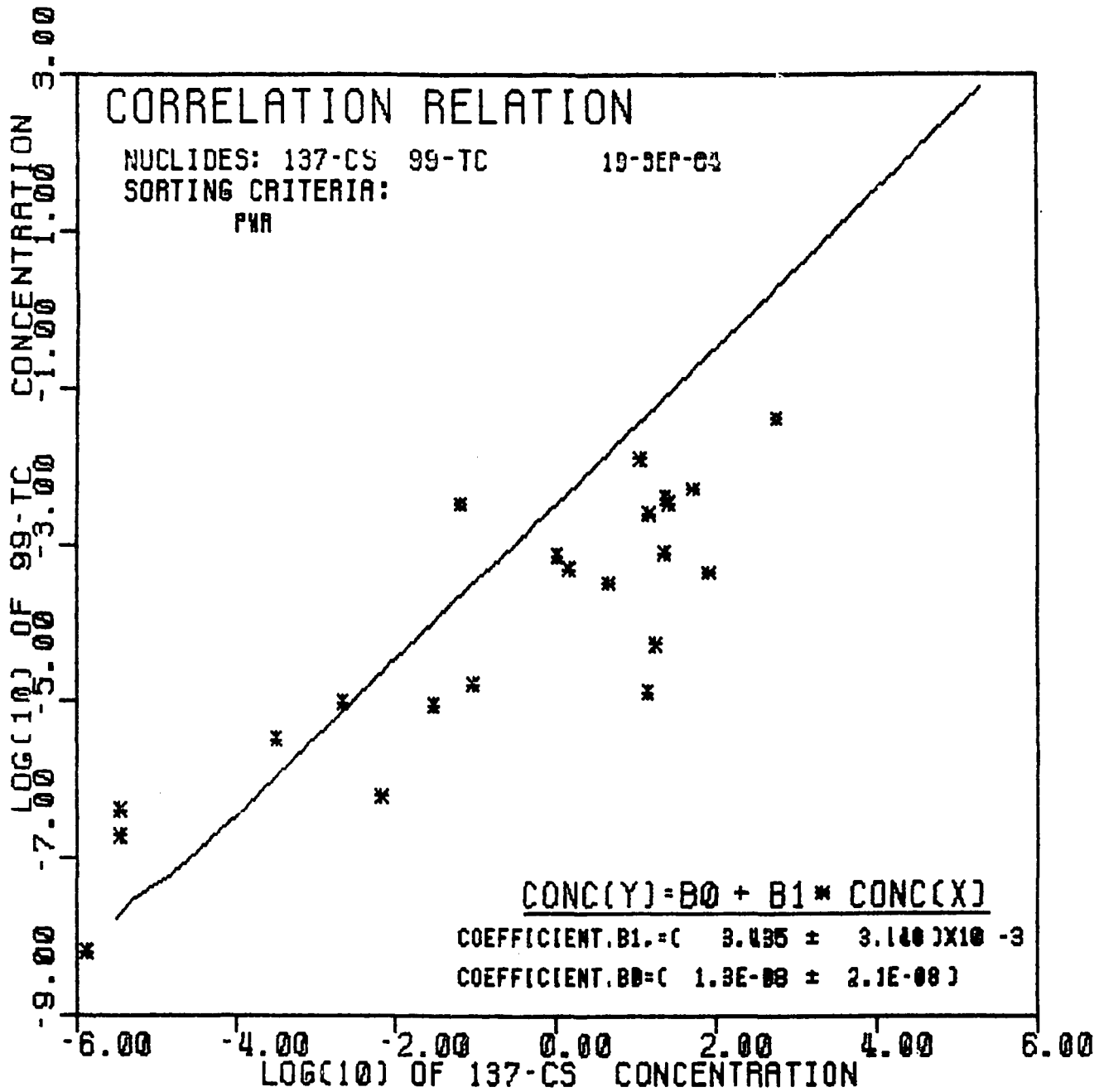
Confidence Level for this Correlation is: 65. %

137-C8 99-TC 1

PWR

0.14500E+01	0.72500E-01	0.50000E-03	0.24000E-03	T035
0.13900E+02	0.69500E+00	0.25000E-02	0.40000E-03	10056
0.11300E+02	0.56500E+00	0.13000E-01	0.20000E-02	10057
0.56100E+03	0.28050E+02	0.42000E-01	0.70000E-02	10062
0.63900E-01	0.31950E-02	0.33000E-02	0.50000E-03	10065
0.23000E+02	0.11500E+01	0.40000E-02	0.60000E-03	10066
0.35000E-05	0.11000E-05	0.20000E-06	0.40000E-07	9994
0.34000E-05	0.17000E-05	0.42000E-06	0.90000E-07	9995
0.17200E+02	0.86000E+00	0.54400E-04	0.16000E-04	10108
0.25900E+02	0.12950E+01	0.34000E-02	0.10000E-02	10114
0.31800E-03	0.15900E-04	0.33000E-05	0.11000E-05	10137
0.92200E-01	0.46100E-02	0.17000E-04	0.11000E-04	10155
0.44482E+01	0.22241E+00	0.33000E-03	0.15840E-03	10208
0.76500E+02	0.39250E+01	0.45000E-03	0.16900E-03	10209
0.21636E-02	0.10818E-03	0.98848E-05	0.19770E-05	10248
0.65535E-02	0.32768E-03	0.62694E-06	0.25077E-06	10249
0.13800E+02	0.69000E+00	0.13412E-04	0.67060E-06	10246
0.10000E+01	0.50000E-01	0.73132E-03	0.43879E-04	10237
0.52100E+02	0.26050E+01	0.52686E-02	0.26343E-03	10238
0.22850E+02	0.11425E+01	0.77939E-03	0.27279E-03	10286
0.29557E-01	0.14779E-02	0.92000E-05	0.46000E-05	10278
0.13369E-05	0.14706E-06	0.65253E-08	0.84828E-09	10645





## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 129-I

Test made on 10-OCT-84

Sorting Criteria are :

PWR

Number of entries in the fit is 22

Zero Offset Value, B0, is 1.47365E-08

Correlation Ratio, B1, is 1.67506E-03

Standard Deviation in B0 is 8.87319E-08

Standard Deviation in B1 is 1.41133E-03

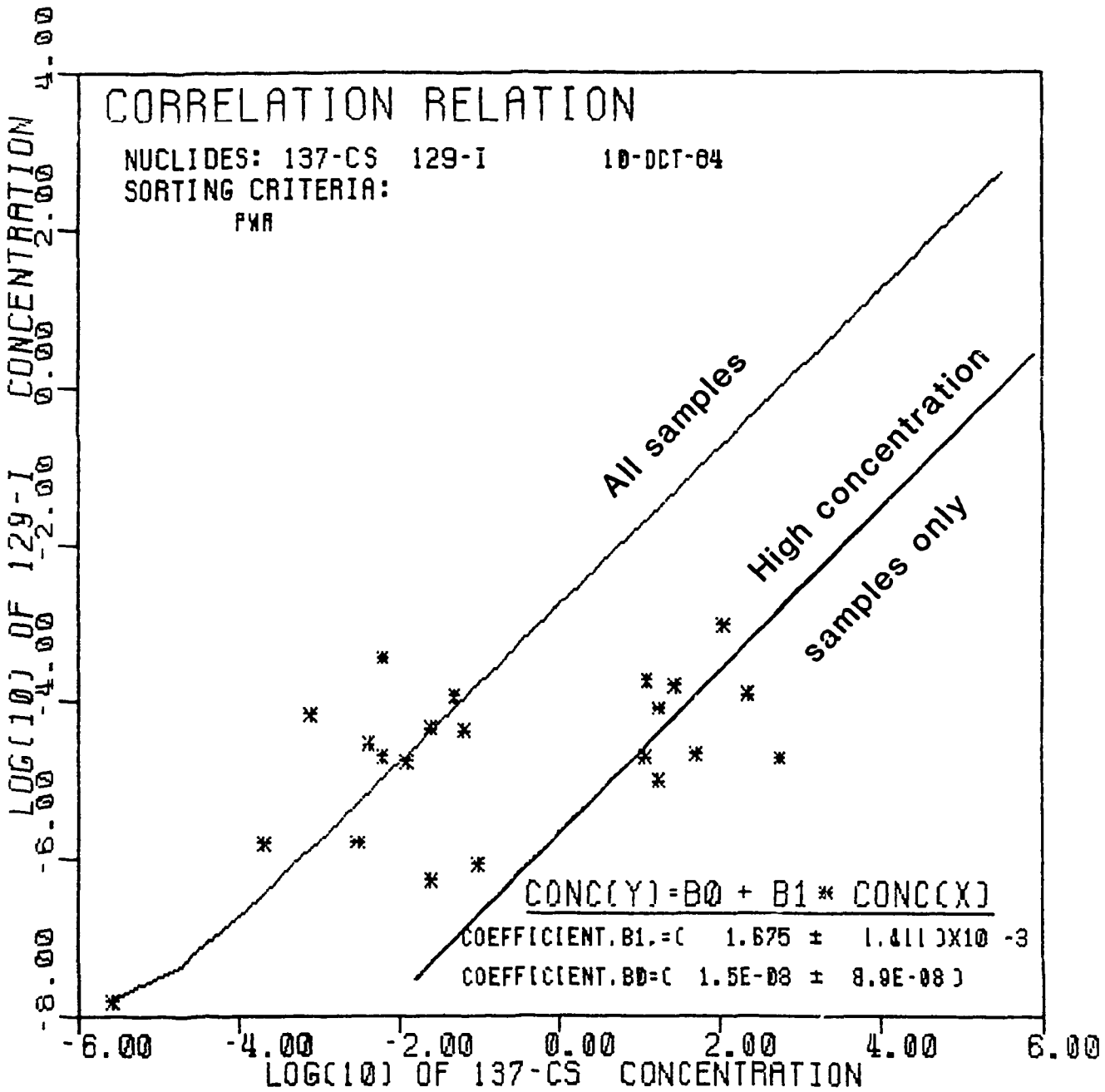
F-TEST Value is 1.438

Confidence Level for this Correlation is: 65. %

137-CS 129-I 1

PWR

0. 22700E+03	0. 11350E+02	0. 12500E-03	0. 10000E-04	9245
0. 42600E-02	0. 21300E-03	0. 29000E-04	0. 68000E-05	7292
0. 56100E+03	0. 28050E+02	0. 19000E-04	0. 70000E-05	10062
0. 17200E+02	0. 86000E+00	0. 99100E-05	0. 47000E-05	10108
0. 12591E-01	0. 62955E-03	0. 17411E-04	0. 87055E-06	10205
0. 25900E-01	0. 12950E-02	0. 46086E-04	0. 22121E-04	10213
0. 52100E+02	0. 26050E+01	0. 21947E-04	0. 92178E-05	10238
0. 24715E-01	0. 12358E-02	0. 53847E-06	0. 26924E-06	10285
0. 64363E-02	0. 32181E-03	0. 20200E-04	0. 10100E-05	10307
0. 27000E-05	0. 17280E-05	0. 15800E-07	0. 55300E-08	10309
0. 12074E+02	0. 60370E+00	0. 18700E-03	0. 11220E-04	10312
0. 49800E-01	0. 24900E-02	0. 11800E-03	0. 25960E-04	10314
0. 30750E-02	0. 15375E-03	0. 16261E-05	0. 37401E-06	10464
0. 20628E-03	0. 10314E-04	0. 16000E-05	0. 41600E-06	10465
0. 11726E+02	0. 58630E+00	0. 19814E-04	0. 59443E-05	10387
0. 64618E-01	0. 32309E-02	0. 41930E-04	0. 27254E-04	10337
0. 17677E+02	0. 88385E+00	0. 82026E-04	0. 27889E-04	10445
0. 10865E+03	0. 54327E+01	0. 93239E-03	0. 46620E-04	10446
0. 27058E+02	0. 13529E+01	0. 16200E-03	0. 76140E-04	10447
0. 80622E-03	0. 40311E-03	0. 69830E-04	0. 62847E-05	10448
0. 64078E-02	0. 32039E-03	0. 35377E-03	0. 19811E-03	10535
0. 98829E-01	0. 49414E-02	0. 87149E-06	0. 22659E-06	10760



## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 90-SR

Test made on 18-SEP-84

Sorting Criteria are :

BWR

Number of entries in the fit is 64

Zero Offset Value, B0, is 5.36458E-08

Correlation Ratio, B1, is 6.73418E-02

Standard Deviation in B0 is 2.19263E-07

Standard Deviation in B1 is 3.95643E-02

F-TEST Value is 2.988

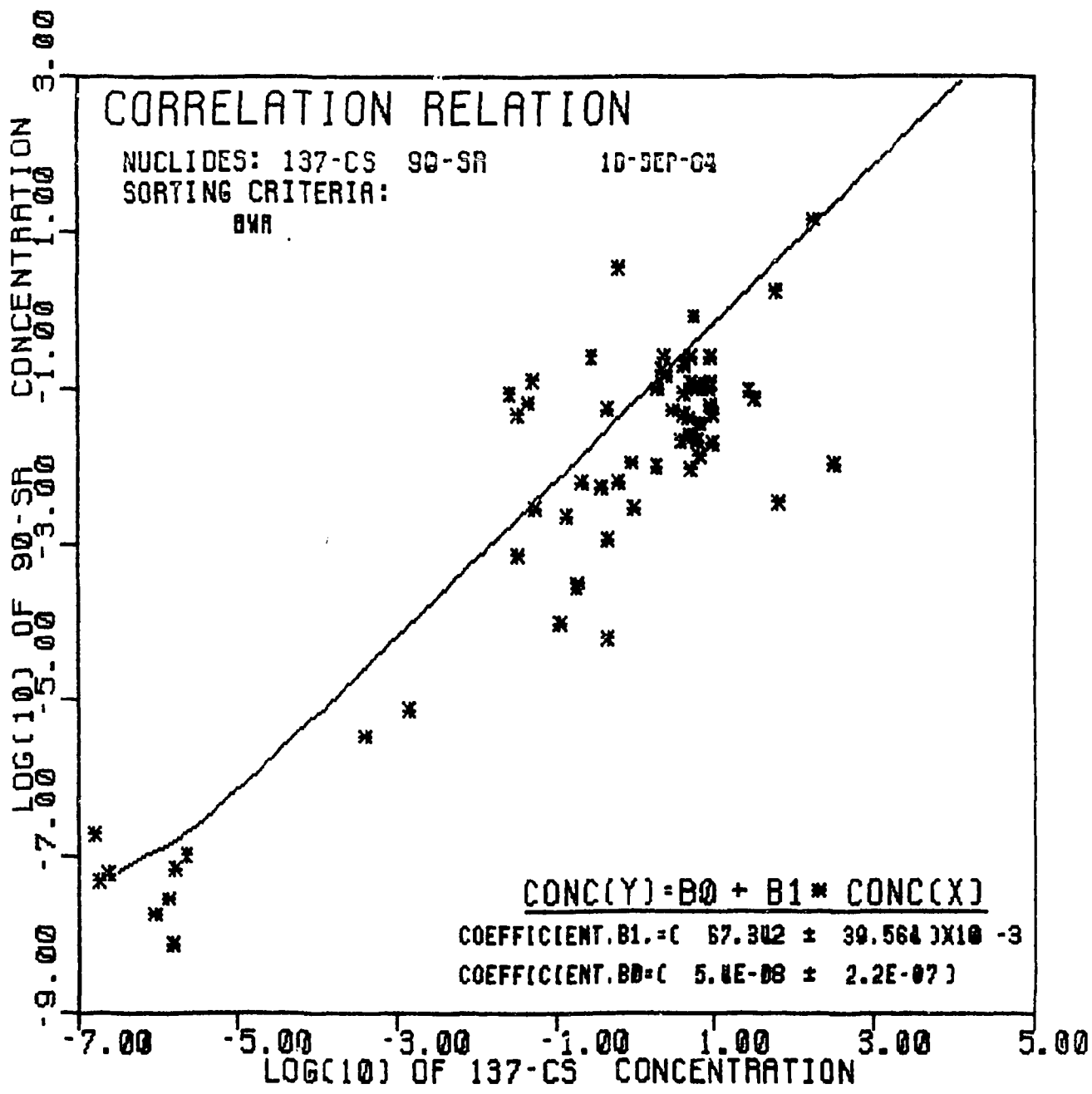
Confidence Level for this Correlation is: 83. %

## BWR

0. 16000E-05	0. 10000E-05	0. 71000E-07	0. 31000E-07	T050
0. 24000E-06	0. 90000E-07	0. 61000E-07	0. 79000E-08	T094
0. 18000E-06	0. 80000E-07	0. 50000E-07	0. 12000E-07	4727
0. 13300E-05	0. 41000E-06	0. 30000E-07	0. 22000E-08	6826
0. 92000E-06	0. 42000E-06	0. 19000E-07	0. 37000E-08	6366
0. 15100E-05	0. 80000E-07	0. 76000E-08	0. 31000E-08	T016
0. 40000E-03	0. 20000E-03	0. 35300E-05	0. 19000E-06	T037
0. 23000E-05	0. 40000E-06	0. 11000E-06	0. 66000E-07	T017
0. 16000E-06	0. 11000E-06	0. 19800E-06	0. 12000E-07	T064
0. 56000E+01	0. 30000E+00	0. 84000E+00	0. 42000E-01	T065
0. 63000E+01	0. 31500E+00	0. 97700E-01	0. 48900E-02	T086
0. 51000E+01	0. 30000E+00	0. 25000E+00	0. 12500E-01	T048
0. 90000E+01	0. 45000E+00	0. 25300E+00	0. 13000E-01	T066
0. 32000E-01	0. 20000E-02	0. 74500E-03	0. 44700E-04	T055
0. 47700E+01	0. 24000E+00	0. 42000E-01	0. 21000E-02	6785
0. 67500E+01	0. 34000E+00	0. 10900E+00	0. 55000E-02	6786
0. 13400E+00	0. 70000E-02	0. 23400E-02	0. 11700E-03	T117
0. 62200E+01	0. 31100E+00	0. 21700E-01	0. 11000E-02	7058
0. 98000E+01	0. 50000E+00	0. 20000E-01	0. 10000E-02	7063
0. 31000E+01	0. 20000E+00	0. 53100E-01	0. 26600E-02	T069
0. 45800E-01	0. 23000E-02	0. 66800E-01	0. 33400E-02	T092
0. 45600E+00	0. 23000E-01	0. 64500E-04	0. 20000E-04	6996
0. 17900E+00	0. 89500E-02	0. 28600E-03	0. 14300E-04	7401
0. 42000E+01	0. 21000E+00	0. 20100E+00	0. 10000E-01	6378
0. 91000E+01	0. 50000E+00	0. 12100E+00	0. 80000E-02	6213
0. 43000E+01	0. 21500E+00	0. 46100E-01	0. 23000E-02	6379
0. 68000E+01	0. 34000E+00	0. 36000E-01	0. 40000E-02	6812
0. 25800E+01	0. 13000E+00	0. 14400E+00	0. 72000E-02	7087
0. 38300E+01	0. 19150E+00	0. 22000E-01	0. 11000E-02	7088
0. 28000E+02	0. 14000E+01	0. 94000E-01	0. 19000E-01	T010
0. 33000E+02	0. 20000E+01	0. 75000E-01	0. 15000E-01	T046
0. 51900E+01	0. 26000E+00	0. 95100E-02	0. 48000E-03	7062
0. 84900E+01	0. 42450E+00	0. 99500E-01	0. 50000E-02	7690
0. 23900E+01	0. 15000E+00	0. 25000E+00	0. 12500E-01	7686
0. 42400E+01	0. 21200E+00	0. 88000E-01	0. 44000E-02	7813
0. 96200E+01	0. 48100E+00	0. 48200E-01	0. 24100E-02	7913
0. 93300E+01	0. 47000E+00	0. 61900E-01	0. 31000E-02	7915
0. 21800E+01	0. 11000E+00	0. 17000E+00	0. 85000E-02	7449
0. 44900E+00	0. 22450E-01	0. 11500E-02	0. 11500E-03	7588
0. 18300E+00	0. 91500E-02	0. 33300E-03	0. 20000E-03	8002
0. 49800E+01	0. 25000E+00	0. 25400E-01	0. 13000E-02	7151
0. 51300E+01	0. 26000E+00	0. 23000E-01	0. 11500E-02	7150
0. 19700E+01	0. 10000E+00	0. 97900E-01	0. 49000E-02	7674
0. 32900E+03	0. 23800E+01	0. 10900E-01	0. 54500E-03	8023
0. 63000E+02	0. 31500E+01	0. 18000E+01	0. 90000E-01	T038
0. 51000E-01	0. 30000E-02	0. 13000E+00	0. 65000E-02	T007
0. 50000E+01	0. 25000E+00	0. 11800E+00	0. 59000E-02	T051
0. 18900E+01	0. 94500E-01	0. 98700E-02	0. 49000E-03	T054
0. 18800E+03	0. 94000E+01	0. 14500E+02	0. 15000E+01	T112
0. 65900E+02	0. 33000E+01	0. 34600E-02	0. 17300E-03	7450
0. 61700E+00	0. 31000E-01	0. 35000E+01	0. 18000E+00	7452
0. 26000E-01	0. 13000E-02	0. 88900E-01	0. 44500E-02	T070
0. 46000E+00	0. 23000E-01	0. 54100E-01	0. 27050E-02	T091
0. 27900E+00	0. 19000E-01	0. 25600E+00	0. 13000E-01	6792
0. 21200E+00	0. 13000E-01	0. 62000E-02	0. 22000E-02	6827
0. 37800E+00	0. 19000E-01	0. 53300E-02	0. 27000E-03	7448
0. 65700E+01	0. 34000E+00	0. 14000E-01	0. 10000E-02	9117
0. 54000E-01	0. 40000E-02	0. 29000E-02	0. 14500E-03	9119
0. 91000E+00	0. 45500E-01	0. 11300E-01	0. 56500E-03	9799
0. 33000E-01	0. 30000E-02	0. 48300E-01	0. 24200E-02	9800
0. 14300E-02	0. 71500E-04	0. 79000E-05	0. 45000E-05	9980

0. 96800E+00 0. 48400E-01 0. 29400E-02 0. 14700E-03  
0. 63000E+00 0. 20000E+00 0. 63700E-02 0. 31850E-03  
0. 10800E+00 0. 54000E-02 0. 98000E-04 0. 26000E-04

9981  
9982  
10186





## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 99-TC

Test made on 18-SEP-84

Sorting Criteria are :

BWR

Number of entries in the fit is 7

Zero Offset Value, B0, is 3.55665E-05

Correlation Ratio, B1, is 1.43818E-03

Standard Deviation in B0 is 1.66217E-03

Standard Deviation in B1 is 1.23597E-03

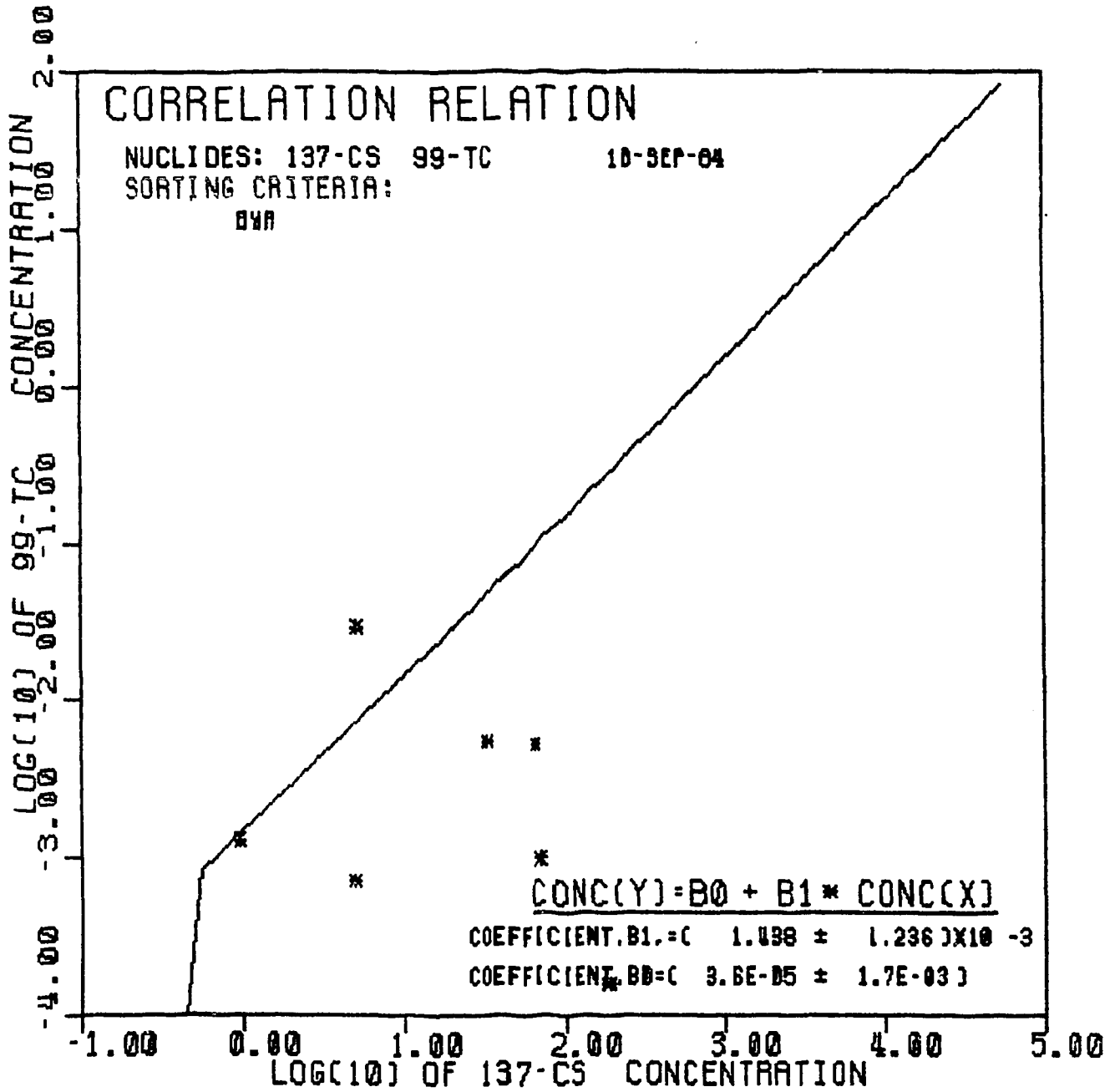
F-TEST Value is 1.284

Confidence Level for this Correlation is: 62.7%

137-CS 99-TC 1

BWR

0.72000E+02	0.36000E+01	0.10000E-02	0.50000E-03	T087
0.33000E+02	0.20000E+01	0.55000E-02	0.80000E-03	T046
0.49800E+01	0.25000E+00	0.72000E-03	0.46000E-03	7151
0.51300E+01	0.26000E+00	0.29000E-01	0.50000E-02	7150
0.18800E+03	0.94000E+01	0.16000E-03	0.87000E-04	T112
0.65900E+02	0.33000E+01	0.53000E-02	0.90000E-03	7450
0.96800E+00	0.48400E-01	0.13000E-02	0.10000E-03	9981



## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 129-I

Test made on 18-SEP-84

Sorting Criteria are :

BWR

Number of entries in the fit is 7

Zero Offset Value, B0, is 5.18550E-05

Correlation Ratio, B1, is 6.84694E-05

Standard Deviation in B0 is 2.01769E-05

Standard Deviation in B1 is 4.25046E-05

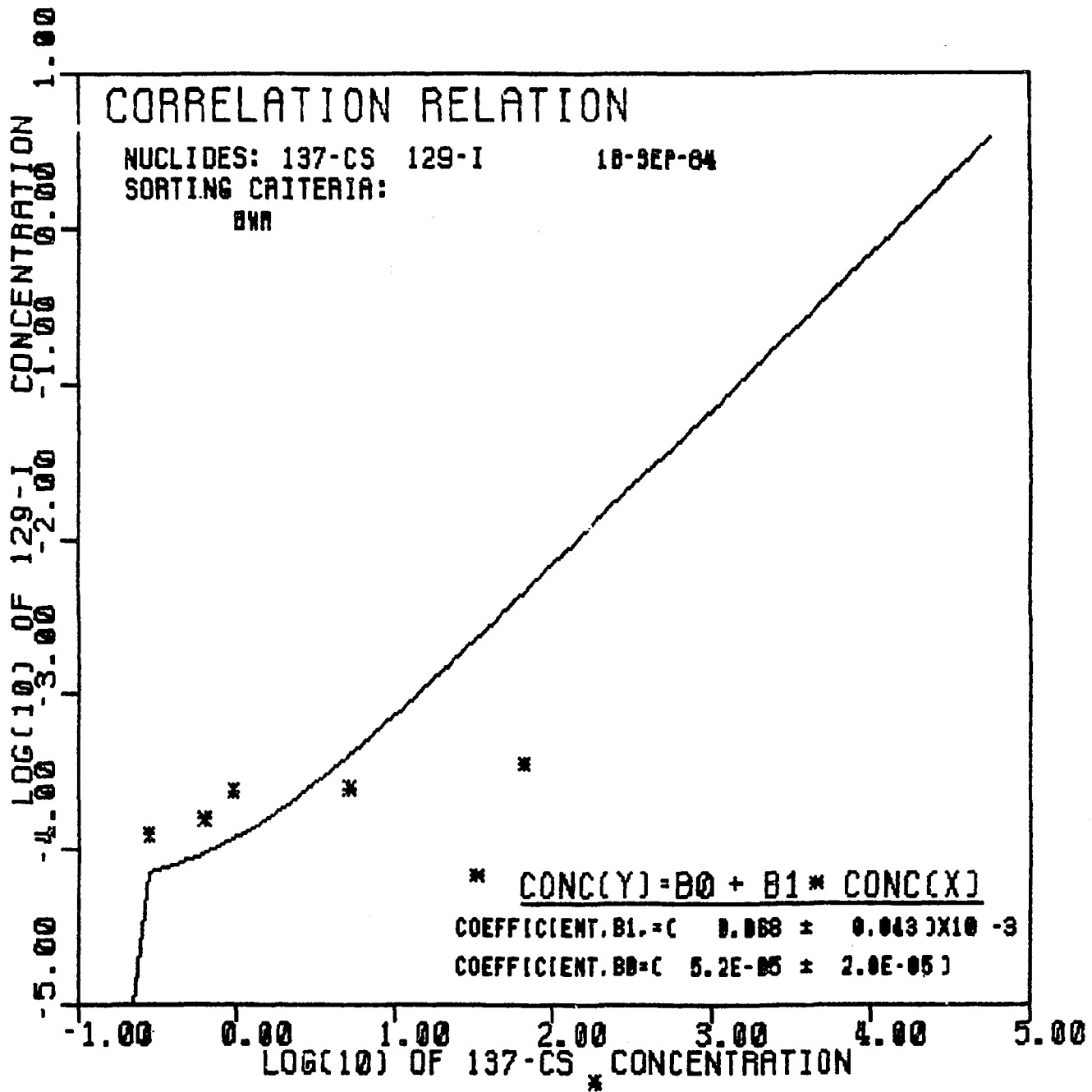
F-TEST Value is 4.603

Confidence Level for this Correlation is: 89. %

137-CS 129-I 1

BWR

0.33000E+02	0.20000E+01	0.69000E-04	0.17000E-04	T046
0.51300E+01	0.26000E+00	0.25000E-03	0.90000E-04	7150
0.18800E+03	0.94000E+01	0.32300E-05	0.15000E-05	T112
0.65900E+02	0.33000E+01	0.36000E-03	0.50000E-04	7450
0.27900E+00	0.19000E-01	0.12700E-03	0.11000E-04	6792
0.96800E+00	0.48400E-01	0.24000E-03	0.20000E-04	9981
0.63000E+00	0.20000E+00	0.16000E-03	0.50000E-04	9982



## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 90-SR

Test made on 18-SEP-84

Sorting Criteria are :

PWR

Number of entries in the fit is 62

Zero Offset Value, B0, is 8.75977E-08

Correlation Ratio, B1, is 4.20207E-02

Standard Deviation in B0 is 1.91315E-07

Standard Deviation in B1 is 3.07920E-02

F-TEST Value is 1.878

Confidence Level for this Correlation is: 66. %

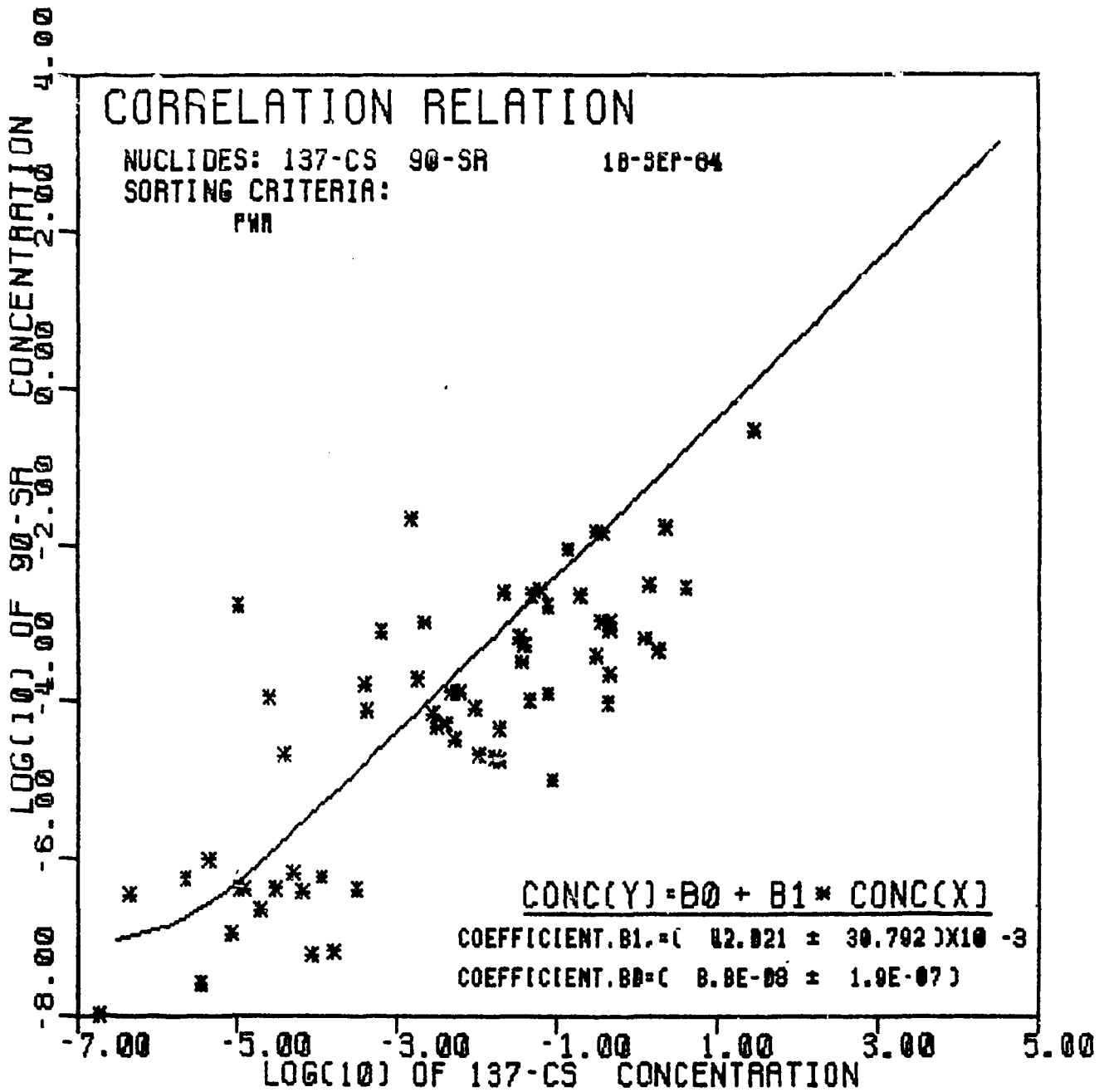
## PHR

0.51000E-04	0.30000E-05	0.66000E-06	0.38000E-06	T076
0.65000E-04	0.32500E-05	0.39000E-06	0.39000E-07	6724
0.23000E-05	0.30000E-06	0.57900E-06	0.35000E-07	6725
0.11400E-03	0.60000E-05	0.60000E-06	0.36000E-07	6729
0.86600E-04	0.43300E-05	0.62000E-07	0.93000E-08	6730
0.84800E-05	0.42400E-06	0.11400E-06	0.17000E-07	7164
0.10700E-04	0.30000E-05	0.17000E-02	0.85000E-04	7131
0.12500E-04	0.62500E-06	0.41600E-06	0.20800E-07	7050
0.46000E-06	0.20000E-06	0.35900E-06	0.19000E-07	6843
0.36000E-05	0.20000E-06	0.26600E-07	0.48000E-08	6842
0.19500E-04	0.10000E-05	0.22400E-06	0.20000E-07	7897
0.45300E-05	0.49000E-06	0.99300E-06	0.49650E-07	7562
0.19400E-06	0.65000E-07	0.10600E-07	0.39000E-08	8025
0.15800E-03	0.80000E-05	0.68700E-07	0.96200E-08	7385
0.10700E-04	0.53500E-06	0.42900E-06	0.34000E-07	7536
0.30400E+00	0.15200E-01	0.39500E-03	0.19750E-04	9504
0.61000E-01	0.30500E-02	0.28000E-02	0.20000E-03	9507
0.30000E-04	0.15000E-05	0.42600E-06	0.26886E-07	9509
0.22700E-01	0.11350E-02	0.25000E-02	0.12500E-03	9510
0.15500E-02	0.80000E-04	0.22000E-01	0.11000E-02	T071
0.36700E+00	0.18350E-01	0.15200E-01	0.76000E-03	T072
0.30600E+00	0.1300E-01	0.15300E-01	0.76500E-03	T073
0.42600E-02	0.21300E-03	0.54500E-04	0.29000E-05	7292
0.42000E-03	0.21000E-04	0.79000E-04	0.24000E-04	4960
0.61700E-02	0.31000E-03	0.13500E-03	0.67500E-05	7288
0.88100E-01	0.44050E-02	0.10400E-04	0.59000E-05	7285
0.19800E-01	0.10000E-02	0.47000E-04	0.14000E-04	6957
0.34000E-01	0.20000E-02	0.66700E-03	0.47000E-04	6961
0.39700E-04	0.30000E-05	0.21000E-04	0.16000E-05	7290
0.34000E+00	0.20000E-01	0.10900E-02	0.55000E-04	T077
0.39600E-03	0.18000E-03	0.16000E-03	0.77300E-04	7402
0.20000E+00	0.13000E-01	0.23500E-02	0.11750E-03	7149
0.55000E-02	0.30000E-03	0.34000E-04	0.14000E-04	6852
0.40000E-01	0.22000E-02	0.53000E-03	0.10000E-03	7689
0.37100E-01	0.18550E-02	0.33000E-03	0.11000E-03	8014
0.63700E-03	0.32000E-04	0.79000E-03	0.13000E-03	7188
0.48500E-02	0.24250E-03	0.13600E-03	0.88400E-04	8021
0.40700E+01	0.20350E+00	0.29200E-02	0.15000E-03	7445
0.22000E+01	0.50000E+00	0.17500E-01	0.87500E-03	10007
0.99000E-02	0.49500E-03	0.83300E-04	0.41650E-05	10010
0.28500E+02	0.14250E+01	0.29500E+00	0.14750E-01	7153
0.19200E-01	0.96000E-03	0.18000E-04	0.63000E-05	7154
0.14500E+01	0.72500E-01	0.31000E-02	0.15500E-03	T035
0.31900E-02	0.21000E-03	0.48000E-04	0.67000E-05	7147
0.43400E+00	0.22000E-01	0.10100E-03	0.50500E-05	7186
0.22000E-02	0.11000E-03	0.10500E-02	0.13700E-03	7065
0.12800E+01	0.64000E-01	0.65600E-03	0.33000E-04	7593
0.13700E+00	0.70000E-02	0.90500E-02	0.45200E-03	8003
0.18700E+01	0.93500E-01	0.46500E-03	0.93000E-04	7444
0.44600E+00	0.22300E-01	0.10800E-02	0.13000E-03	7697
0.29500E-02	0.15000E-03	0.72000E-04	0.35000E-04	7602
0.77300E-01	0.39000E-02	0.13000E-03	0.44000E-04	7692
0.11200E-01	0.60000E-03	0.22000E-04	0.53000E-05	7684
0.18300E-02	0.91500E-04	0.20000E-03	0.32000E-04	7691
0.25000E-04	0.28000E-05	0.12000E-03	0.13000E-04	7926
0.77800E-01	0.39000E-02	0.17000E-02	0.90000E-04	7495
0.49500E-01	0.25000E-02	0.23600E-02	0.11800E-03	7605
0.44800E+00	0.22400E-01	0.83700E-03	0.83700E-04	7594
0.17200E-01	0.86000E-03	0.20200E-04	0.10100E-05	10138
0.46500E-01	0.23250E-02	0.10800E-03	0.35000E-04	10139
0.44400E+00	0.29000E-01	0.23200E-03	0.25000E-04	10140



0.31800E-03 0.15700E-04 0.41224E-06 0.67013E-07

10137



## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 90-SR

Test made on 19-SEP-84

Sorting Criteria are :

PWR  
RESIN

Number of entries in the fit is 114

Zero Offset Value, B0, is  $-4.91332E-09$

Correlation Ratio, B1, is  $2.12535E-02$

Standard Deviation in B0 is  $1.31018E-07$

Standard Deviation in B1 is  $1.16475E-02$

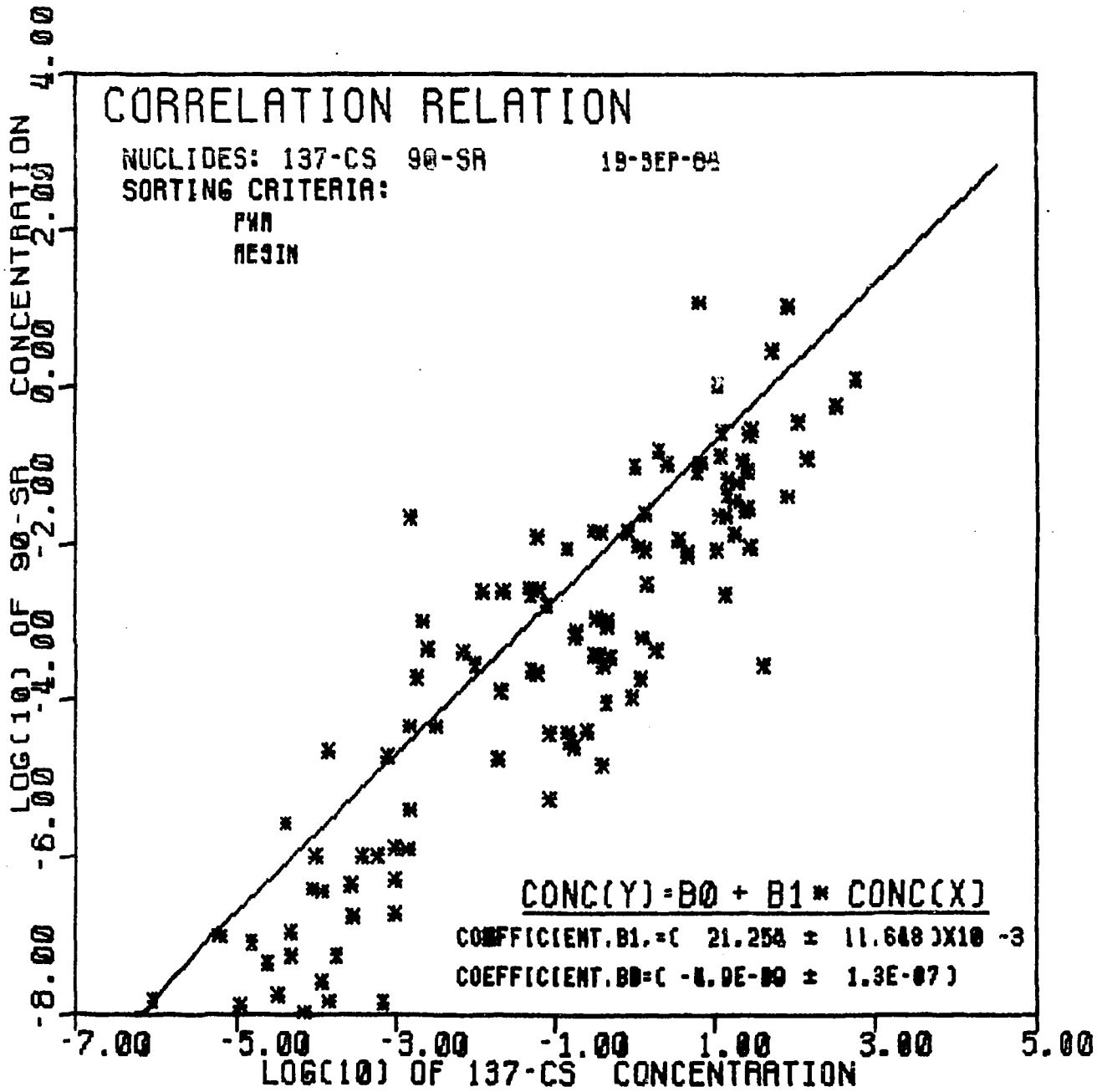
F-TEST Value is 3.400

Confidence Level for this Correlation is: 91. %

PWR  
RESIN

0. 61000E+01	0. 24000E+01	0. 12300E+02	0. 61500E+00	9034
0. 60000E+01	0. 44000E+00	0. 88000E-01	0. 50000E-02	9501
0. 30400E+00	0. 15200E-01	0. 39500E-03	0. 19750E-04	9504
0. 61000E-01	0. 30500E-02	0. 28000E-02	0. 20000E-03	9507
0. 22700E-01	0. 11350E-02	0. 25000E-02	0. 12500E-03	9510
0. 57000E-01	0. 39000E-02	0. 13000E-01	0. 60000E-02	8316
0. 15400E+00	0. 77000E-02	0. 31000E-04	0. 15500E-05	9122
0. 28100E-03	0. 14050E-04	0. 17800E-06	0. 90000E-08	9805
0. 15500E-02	0. 80000E-04	0. 22000E-01	0. 11000E-02	T071
0. 36700E+00	0. 18350E-01	0. 15200E-01	0. 76000E-03	T072
0. 30600E+00	0. 15300E-01	0. 15300E-01	0. 76500E-03	T073
0. 32400E+03	0. 16200E+02	0. 59000E+00	0. 29500E-01	8470
0. 21000E-01	0. 10000E-02	0. 13700E-03	0. 68500E-05	8472
0. 49000E-04	0. 24500E-05	0. 11200E-06	0. 12000E-07	9604
0. 15100E-01	0. 75500E-03	0. 96000E-07	0. 10000E-07	9605
0. 37200E-03	0. 18600E-04	0. 10400E-05	0. 11000E-06	9606
0. 47000E-04	0. 23500E-05	0. 58000E-07	0. 60000E-08	9608
0. 17900E-03	0. 89500E-05	0. 59000E-07	0. 60000E-08	9609
0. 10800E-04	0. 54000E-06	0. 13000E-07	0. 30000E-08	9610
0. 97000E-04	0. 48500E-05	0. 10600E-05	0. 60000E-07	9471
0. 14400E-03	0. 72000E-05	0. 15000E-07	0. 80000E-08	9472
0. 97000E-03	0. 48500E-04	0. 13300E-05	0. 70000E-07	9473
0. 62000E-05	0. 11000E-05	0. 10300E-06	0. 15000E-07	9474
0. 99000E-03	0. 49500E-04	0. 53000E-06	0. 30000E-07	9475
0. 58300E-03	0. 29150E-04	0. 11000E-05	0. 60000E-07	9476
0. 15600E-04	0. 22000E-05	0. 86000E-07	0. 12000E-07	9478
0. 86000E-01	0. 43000E-02	0. 40000E-04	0. 20000E-05	9479
0. 41000E-04	0. 90000E-05	0. 27800E-05	0. 14000E-06	9480
0. 12000E-03	0. 60000E-05	0. 38000E-06	0. 20000E-07	9481
0. 88000E-04	0. 44000E-05	0. 41000E-06	0. 20500E-07	9482
0. 14000E-03	0. 70000E-05	0. 22600E-04	0. 12000E-05	9483
0. 95000E-03	0. 47500E-04	0. 19200E-06	0. 10000E-07	9484
0. 86000E-01	0. 43000E-02	0. 59000E-05	0. 30000E-06	9485
0. 14300E-02	0. 71500E-04	0. 13000E-05	0. 60000E-06	9767
0. 33300E-04	0. 16650E-05	0. 18000E-07	0. 30000E-08	9768
0. 15000E-02	0. 30000E-03	0. 41000E-05	0. 20500E-06	9771
0. 24400E-04	0. 12200E-05	0. 45000E-07	0. 30000E-08	9772
0. 15000E-02	0. 20000E-03	0. 48000E-04	0. 24000E-05	9773
0. 72000E-04	0. 36000E-05	0. 11000E-07	0. 30000E-08	9774
0. 11800E-03	0. 59000E-05	0. 26000E-07	0. 80000E-08	9775
0. 26800E-03	0. 13400E-04	0. 45000E-06	0. 22500E-07	9778
0. 68000E-03	0. 34000E-04	0. 14000E-07	0. 30000E-08	9779
0. 28500E+02	0. 14250E+01	0. 29500E+00	0. 14750E-01	7153
0. 19200E-01	0. 96000E-03	0. 18000E-04	0. 63000E-05	7154
0. 27500E+02	0. 14000E+01	0. 91400E-02	0. 45700E-03	7287
0. 14500E+01	0. 72500E-01	0. 31000E-02	0. 15500E-03	T035
0. 39600E+00	0. 20000E-01	0. 15900E-04	0. 10000E-05	7158
0. 31900E-02	0. 21000E-03	0. 48000E-04	0. 67000E-05	7147
0. 43400E+00	0. 22000E-01	0. 10100E-03	0. 50500E-05	7186
0. 22000E-02	0. 11000E-03	0. 10500E-02	0. 13700E-03	7065
0. 88000E-06	0. 79000E-07	0. 15300E-07	0. 80000E-09	7439
0. 12800E+01	0. 64000E-01	0. 65600E-03	0. 33000E-04	7593
0. 13700E+00	0. 70000E-02	0. 90500E-02	0. 45200E-03	8003
0. 18700E+01	0. 93500E-01	0. 46500E-03	0. 93000E-04	7444
0. 44600E+00	0. 22300E-01	0. 10800E-02	0. 13000E-03	7697
0. 18300E-02	0. 91500E-04	0. 20000E-03	0. 32000E-04	7691
0. 77800E-01	0. 39000E-02	0. 17000E-02	0. 90000E-04	7495
0. 49500E-01	0. 25000E-02	0. 23600E-02	0. 11800E-03	7605
0. 13900E+02	0. 69500E+00	0. 70700E-01	0. 35350E-02	10056
0. 11300E+02	0. 56500E+00	0. 23600E-01	0. 11800E-02	10057

0. 56100E+03	0. 28050E+02	0. 12500E+01	0. 62500E-01	10062
0. 17400E+00	0. 10000E-01	0. 67100E-03	0. 33550E-04	10064
0. 23000E+02	0. 11500E+01	0. 27100E-01	0. 13550E-02	10066
0. 17200E+02	0. 86000E+00	0. 13500E-01	0. 10000E-02	10108
0. 66300E+01	0. 33150E+00	0. 11400E+00	0. 10000E-01	10109
0. 25400E-02	0. 69000E-03	0. 46000E-03	0. 50000E-04	10113
0. 25900E+02	0. 12950E+01	0. 29100E-01	0. 14550E-02	10114
0. 44400E+01	0. 22200E+00	0. 71700E-02	0. 35850E-03	10157
0. 10692E+02	0. 53460E+00	0. 10845E+01	0. 54225E-01	10207
0. 44482E+01	0. 22241E+00	0. 82773E-02	0. 41386E-03	10208
0. 78500E+02	0. 39250E+01	0. 10958E+02	0. 54790E+00	10209
0. 13800E+02	0. 69000E+00	0. 43891E-01	0. 21946E-02	10246
0. 10000E+01	0. 50000E-01	0. 99077E-01	0. 49539E-02	10237
0. 52100E+02	0. 26050E+01	0. 30250E+01	0. 15125E+00	10238
0. 22850E+02	0. 11425E+01	0. 12000E+00	0. 60000E-02	10286
0. 25907E+02	0. 12953E+01	0. 85300E-01	0. 42650E-02	10287
0. 20165E+01	0. 10083E+00	0. 15898E+00	0. 79492E-02	10311
0. 12074E+02	0. 60370E+00	0. 27985E+00	0. 13993E-01	10312
0. 14465E+03	0. 72325E+01	0. 13100E+00	0. 65500E-02	10293
0. 18074E+00	0. 90370E-02	0. 80800E-03	0. 40400E-04	10294
0. 13187E+01	0. 65936E-01	0. 24608E-01	0. 12304E-02	10399
0. 79906E+00	0. 47943E-01	0. 15074E-01	0. 75370E-03	10400
0. 46671E-01	0. 23336E-02	0. 28200E-02	0. 14100E-03	10290
0. 12485E-01	0. 13734E-02	0. 24700E-02	0. 12350E-03	10305
0. 13906E+00	0. 69530E-02	0. 41000E-04	0. 41000E-05	10302
0. 11726E+02	0. 58630E+00	0. 14089E+00	0. 70447E-02	10387
0. 10246E+02	0. 51230E+00	0. 87100E-02	0. 43550E-03	10330
0. 43961E+00	0. 21980E-01	0. 94418E-03	0. 56651E-04	10335
0. 10920E+01	0. 87359E-01	0. 97733E-02	0. 48867E-03	10336
0. 40499E+02	0. 20250E+01	0. 30188E-03	0. 39244E-04	10340
0. 17600E+00	0. 88000E-02	0. 27000E-04	0. 10260E-04	10349
0. 11500E+01	0. 57500E-01	0. 20400E-03	0. 18360E-04	10350
0. 89949E+00	0. 44975E-01	0. 11692E-03	0. 12861E-04	10352
0. 25768E+00	0. 12884E-01	0. 42428E-04	0. 55156E-05	10444
0. 17677E+02	0. 88385E+00	0. 35793E-01	0. 17896E-02	10445
0. 10865E+03	0. 54327E+01	0. 38089E+00	0. 19045E-01	10446
0. 27058E+02	0. 13529E+01	0. 26163E+00	0. 13082E-01	10447
0. 80622E-03	0. 40311E-03	0. 19488E-04	0. 85746E-05	10448
0. 13401E+02	0. 67007E+00	0. 24072E-02	0. 12036E-03	10556
0. 34806E+00	0. 17403E-01	0. 40411E-03	0. 36370E-04	10528
0. 19646E+02	0. 98230E+00	0. 61078E-01	0. 30539E-02	10531
0. 71268E-02	0. 64141E-03	0. 42787E-03	0. 21393E-04	10551
0. 80000E+02	0. 40000E+01	0. 41800E-01	0. 20900E-02	10569
0. 25900E+02	0. 13000E+01	0. 87800E-01	0. 43900E-02	10570
0. 25424E+01	0. 45763E+00	0. 10826E+00	0. 54130E-02	10571
0. 34400E+01	0. 17200E+00	0. 11600E-01	0. 58000E-03	10572
0. 48300E+00	0. 24200E-01	0. 36000E-03	0. 36000E-04	10575
0. 13300E+01	0. 66500E-01	0. 88300E-02	0. 44200E-03	10576
0. 99800E-02	0. 69900E-03	0. 30000E-03	0. 36000E-04	10577
0. 13300E+02	0. 66500E+00	0. 23452E-01	0. 11726E-02	10681
0. 39476E+00	0. 19738E-01	0. 28806E-03	0. 48970E-04	10331
0. 33135E+00	0. 16568E-01	0. 11845E-02	0. 59227E-04	10338
0. 58062E-01	0. 29031E-02	0. 23727E-03	0. 14236E-04	10553
0. 49411E-01	0. 24706E-02	0. 24784E-03	0. 14871E-04	10554



## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 99-TC

Test made on 19-SEP-84

Sorting Criteria are :

PWR  
RESIN

Number of entries in the fit is 13

Zero Offset Value, B0, is 4.37085E-04

Correlation Ratio, B1, is 1.07879E-04

Standard Deviation in B0 is 1.86289E-04

Standard Deviation in B1 is 8.78383E-05

F-TEST Value is 4.619

Confidence Level for this Correlation is: 92. %

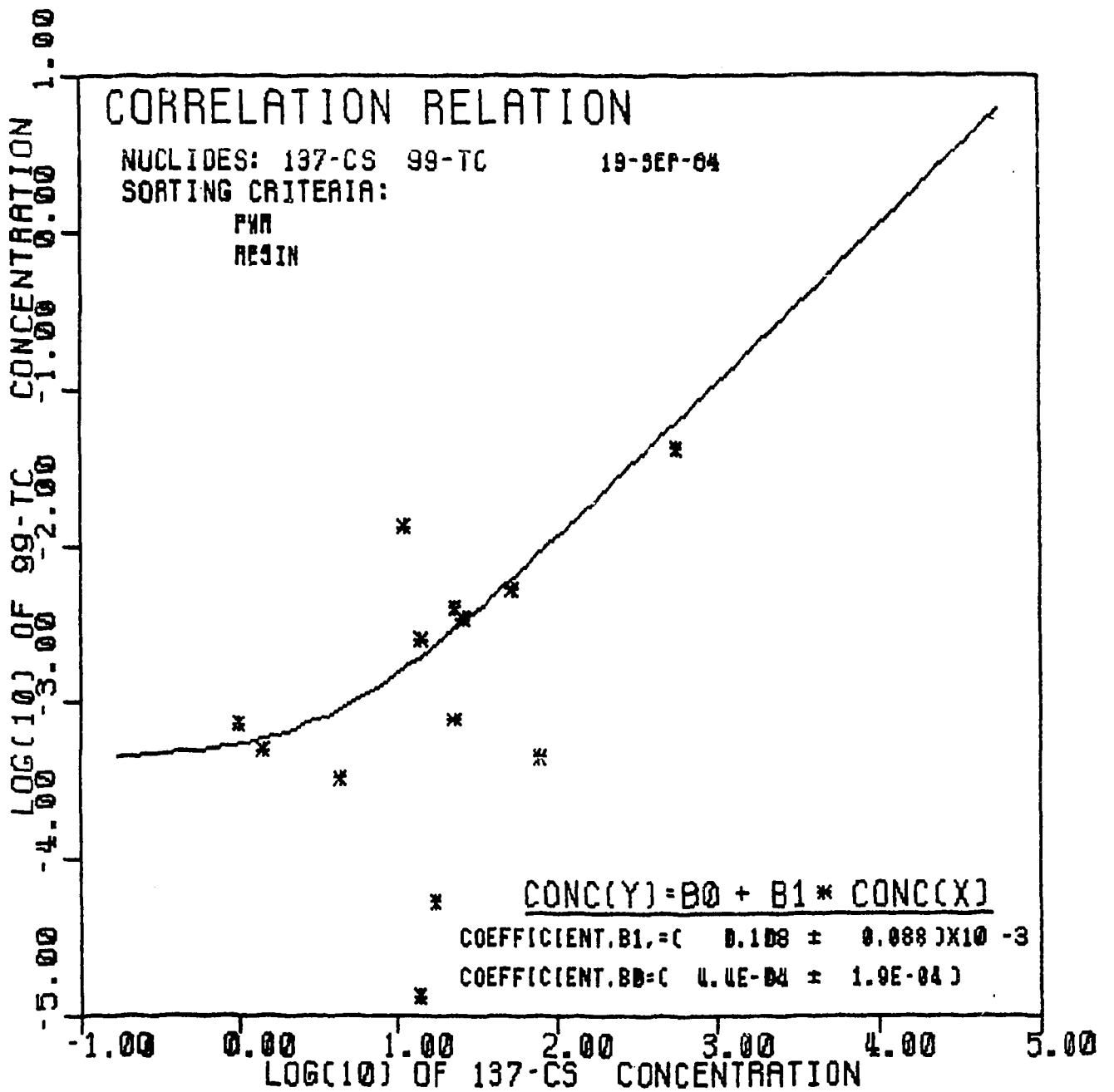
137-C8 99-TC 2

PWR

RESIN

0. 14500E+01	0. 72500E-01	0. 50000E-03	0. 24000E-03	T035
0. 13900E+02	0. 69500E+00	0. 25000E-02	0. 40000E-03	10056
0. 11300E+02	0. 56500E+00	0. 13000E-01	0. 20000E-02	10057
0. 56100E+03	0. 28050E+02	0. 42000E-01	0. 70000E-02	10062
0. 23000E+02	0. 11500E+01	0. 40000E-02	0. 60000E-03	10066
0. 17200E+02	0. 86000E+00	0. 54400E-04	0. 16000E-04	10108
0. 25900E+02	0. 12950E+01	0. 34000E-02	0. 10000E-02	10114
0. 44482E+01	0. 22241E+00	0. 33000E-03	0. 15840E-03	10208
0. 78500E+02	0. 39250E+01	0. 45000E-03	0. 18900E-03	10209
0. 13800E+02	0. 69000E+00	0. 13412E-04	0. 67060E-06	10246
0. 10000E+01	0. 50000E-01	0. 73132E-03	0. 43879E-04	10237
0. 52100E+02	0. 26050E+01	0. 52686E-02	0. 26848E-03	10230
0. 22850E+02	0. 11425E+01	0. 77939E-03	0. 27279E-03	10286





## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 129-I

Test made on 19-SEP-84

Sorting Criteria are :

PWR  
RESIN

Number of entries in the fit is 9

Zero Offset Value, B0, is 6.91620E-05

Correlation Ratio, B1, is 7.73660E-06

Standard Deviation in B0 is 2.50014E-08

Standard Deviation in B1 is 3.00792E-06

F-TEST Value is 7.000

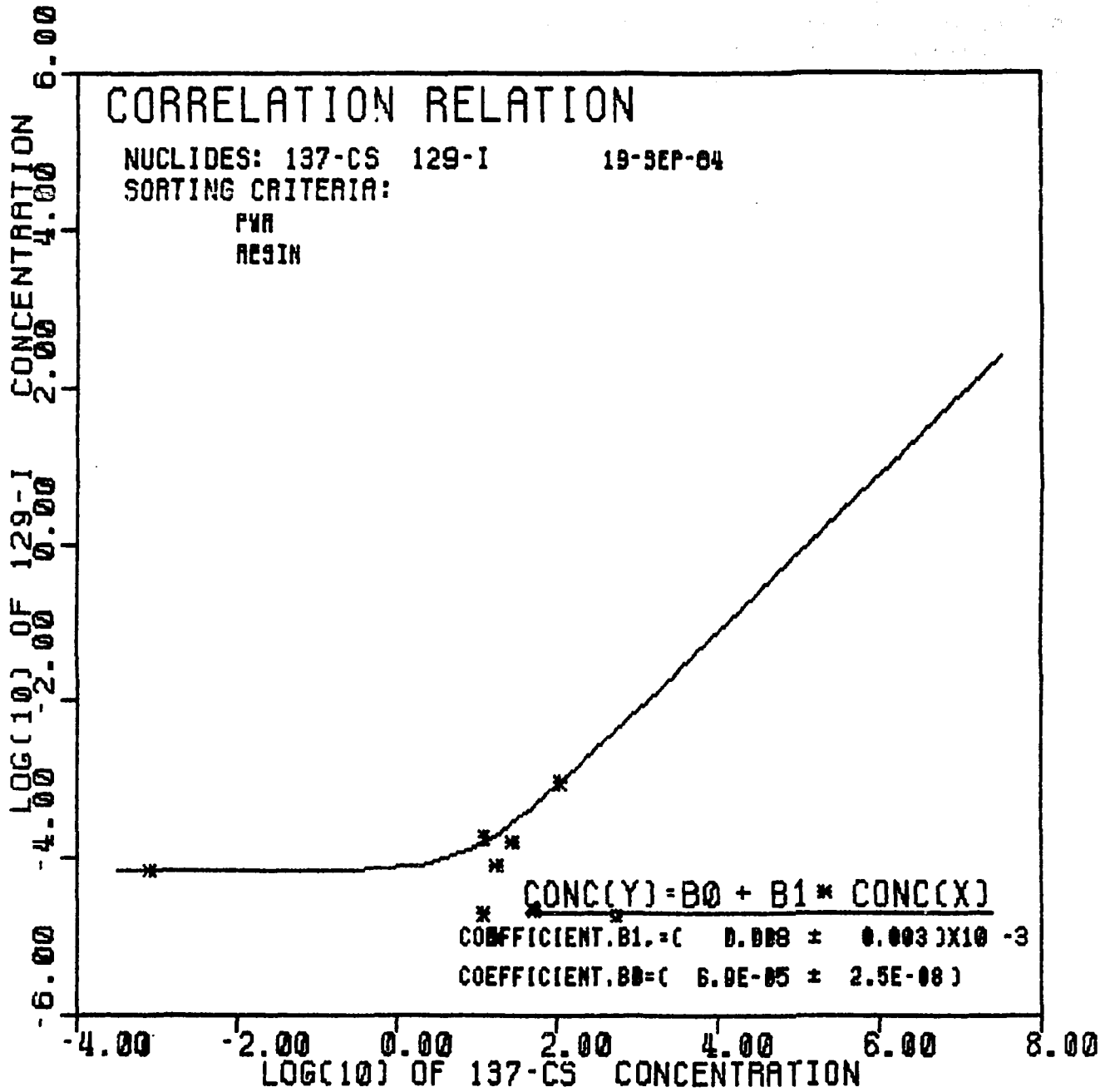
Confidence Level for this Correlation is: 95. %

137-C8 129-1 2

PWR

RESIN

0.56100E+03	0.28050E+02	0.19000E-04	0.70000E-05	10062
0.17200E+02	0.86000E+00	0.99100E-05	0.47000E-05	10108
0.52100E+02	0.26050E+01	0.21947E-04	0.92178E-05	10238
0.12074E+02	0.60370E+00	0.18700E-03	0.11220E-04	10312
0.11726E+02	0.58630E+00	0.19814E-04	0.59443E-05	10387
0.17677E+02	0.88385E+00	0.82026E-04	0.27889E-04	10445
0.10865E+03	0.54327E+01	0.93839E-03	0.46620E-04	10446
0.27058E+02	0.13529E+01	0.16200E-03	0.76140E-04	10447
0.80622E-03	0.40311E-03	0.69830E-04	0.62847E-05	10448



## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 90-SR

Test made on 19-SEP-84

Sorting Criteria are :

BWR  
RESIN

Number of entries in the fit is 67

Zero Offset Value, B0, is 4.70413E-06

Correlation Ratio, B1, is 6.79119E-02

Standard Deviation in B0 is 5.33296E-05

Standard Deviation in B1 is 3.35714E-02

F-TEST Value is 4.297

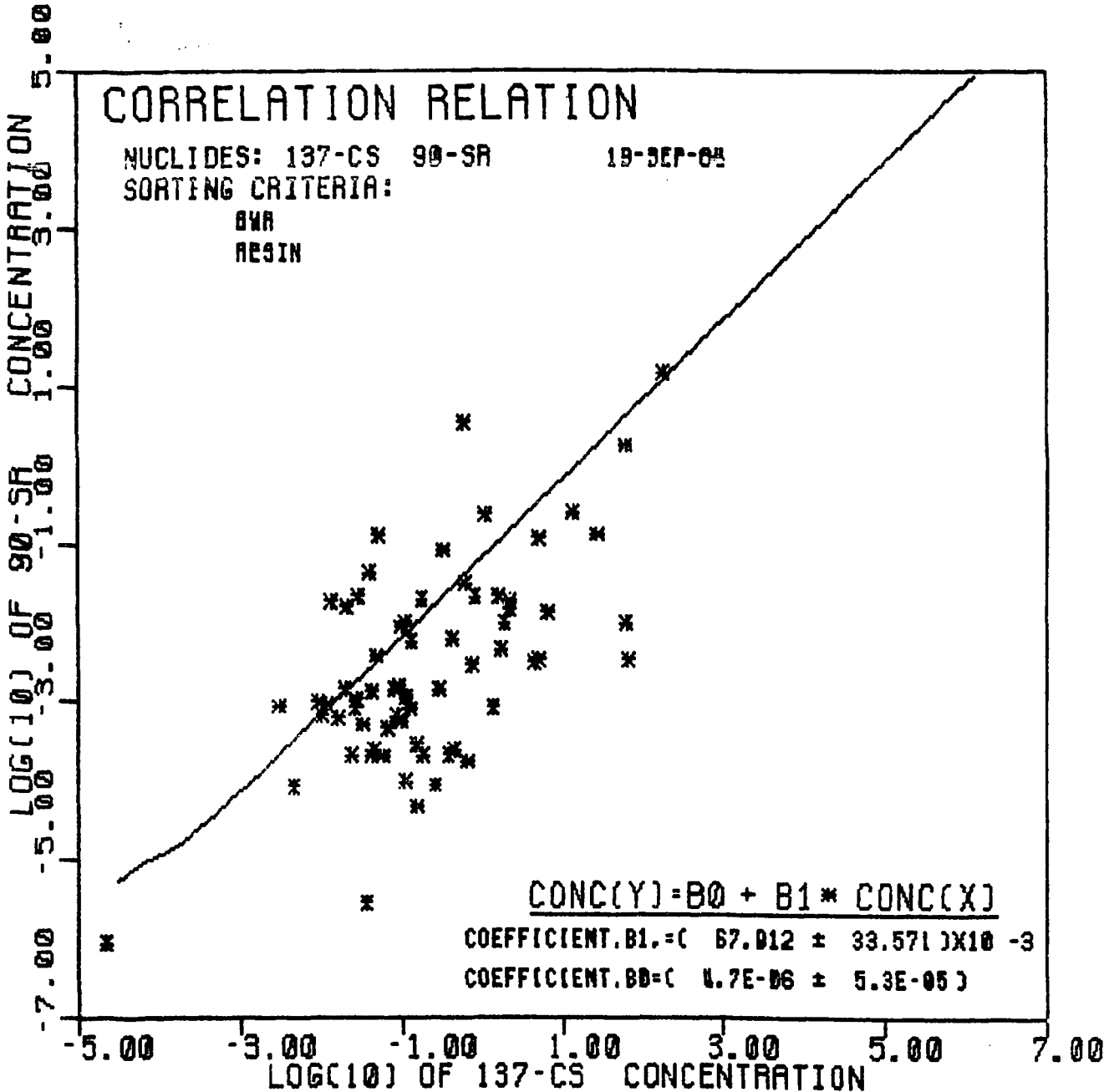
Confidence Level for this Correlation is: 95. %

BHR

RESIN

0.63000E+02	0.31500E+01	0.18000E+01	0.90000E-01	T038
0.51000E-01	0.30000E-02	0.13000E+00	0.65000E-02	T007
0.50000E+01	0.25000E+00	0.11800E+00	0.59000E-02	T051
0.18900E+01	0.94500E-01	0.98700E-02	0.49000E-03	T054
0.18800E+03	0.94000E+01	0.14500E+02	0.15000E+01	T112
0.65900E+02	0.33000E+01	0.34600E-02	0.17300E-03	7450
0.61700E+00	0.31000E-01	0.35000E+01	0.18000E+00	7452
0.13700E+01	0.68500E-01	0.88000E-03	0.50000E-04	9852
0.14000E+01	0.80000E-01	0.22000E-01	0.11000E-02	9853
0.65700E+01	0.34000E+00	0.14000E-01	0.10000E-02	9117
0.26000E-01	0.13000E-02	0.88000E-03	0.50000E-04	8092
0.27000E-01	0.13500E-02	0.11000E-02	0.10000E-03	8093
0.90000E-02	0.45000E-03	0.10000E-02	0.10000E-03	8094
0.51100E+01	0.27000E+00	0.35000E-02	0.50000E-03	7815
0.15100E+00	0.80000E-02	0.29500E-03	0.14750E-04	7816
0.15000E+00	0.80000E-01	0.48000E-04	0.11000E-04	7817
0.36000E-01	0.20000E-02	0.29000E-05	0.16000E-05	7818
0.18200E+00	0.91000E-01	0.21000E-03	0.10500E-04	7819
0.91000E-01	0.45500E-02	0.16400E-02	0.90000E-04	9330
0.13400E+02	0.90000E+00	0.25000E+00	0.12500E-01	9331
0.12300E+00	0.80000E-02	0.82000E-03	0.60000E-04	9332
0.80000E-01	0.18000E-01	0.14400E-02	0.14000E-03	9333
0.17000E+01	0.85000E-01	0.46000E-02	0.23000E-03	9856
0.26400E+02	0.15000E+01	0.13100E+00	0.70000E-02	9806
0.97000E-01	0.14000E-01	0.56000E-03	0.30000E-04	9807
0.22500E+01	0.11250E+00	0.15000E-01	0.75000E-03	9808
0.32000E-01	0.90000E-02	0.52200E-03	0.51000E-04	9997
0.13000E+00	0.70000E-01	0.57200E-02	0.28600E-03	9998
0.42000E+00	0.90000E-01	0.61600E-02	0.30800E-03	9999
0.28500E+00	0.14250E-01	0.14600E-02	0.73000E-04	10000
0.11200E+00	0.56000E-02	0.12000E-02	0.60000E-04	10001
0.23000E-04	0.16000E-04	0.90000E-06	0.38000E-06	10065
0.32100E+00	0.78000E-01	0.83400E-01	0.41700E-02	10168
0.59200E-01	0.29600E-02	0.20800E-03	0.19000E-04	10164
0.10800E+00	0.54000E-02	0.98000E-04	0.26000E-04	10186
0.11117E+00	0.55586E-02	0.10500E-01	0.52500E-03	10200
0.98353E-01	0.49177E-02	0.89100E-02	0.44550E-03	10201
0.82846E+00	0.74562E-01	0.21200E-01	0.10600E-02	10202
0.17881E+00	0.89405E-02	0.19605E-01	0.98025E-03	10269
0.23352E-01	0.11676E-02	0.21300E-03	0.10650E-04	10318
0.74455E+00	0.37228E-01	0.30100E-02	0.15050E-03	10319
0.45825E+00	0.22913E-01	0.24852E-03	0.14911E-04	10347
0.62010E+00	0.31005E-01	0.31119E-01	0.15560E-02	10384
0.11738E-01	0.70428E-03	0.93358E-03	0.46679E-04	10415
0.15800E-01	0.83740E-02	0.64656E-03	0.38793E-04	10417
0.11249E+00	0.56245E-02	0.11452E-02	0.57261E-04	10418
0.85645E-01	0.42823E-02	0.67381E-03	0.67381E-04	10425
0.10156E-01	0.19296E-02	0.68521E-03	0.68521E-04	10434
0.30792E-02	0.24634E-03	0.88690E-03	0.44345E-04	10494
0.47739E-01	0.23870E-02	0.38616E-02	0.19308E-03	10495
0.26121E+00	0.13060E-01	0.89172E-04	0.10701E-04	10507
0.65763E+00	0.32882E-01	0.17714E-03	0.10629E-04	10511
0.19822E-01	0.17840E-02	0.14760E-02	0.73802E-04	10536
0.65887E-01	0.20425E-01	0.47259E-03	0.47259E-04	10449
0.44684E-01	0.13852E-01	0.24808E-03	0.86829E-04	10450
0.43193E-01	0.90706E-02	0.20565E-03	0.37018E-04	10451
0.41865E-01	0.20933E-02	0.13624E-02	0.68122E-04	10492
0.62990E+02	0.31495E+01	0.97754E-02	0.48877E-03	10493
0.46175E-02	0.36940E-03	0.87423E-04	0.21856E-04	10541
0.45519E+01	0.22759E+00	0.31933E-02	0.15967E-03	10709

0.38597E+00	0.19299E-01	0.21673E-03	0.43346E-04	-10710
0.21382E-01	0.14968E-02	0.16112E-01	0.80558E-03	10696
0.40294E-01	0.44324E-02	0.43027E-01	0.21514E-02	10697
0.11116E+01	0.28902E+00	0.24099E+00	0.12050E-01	10698
0.28949E-01	0.26055E-02	0.21932E-01	0.10966E-02	10699
0.13645E-01	0.12281E-02	0.19043E-01	0.95214E-03	10813
0.22589E+01	0.11274E+00	0.18689E-01	0.73446E-03	10814





## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 129-I

Test made on 19-SEP-84

Sorting Criteria are :

BWR  
RESIN

Number of entries in the fit is 8

Zero Offset Value, B0, is 1.60470E-05

Correlation Ratio, B1, is 7.29992E-04

Standard Deviation in B0 is 1.97231E-05

Standard Deviation in B1 is 4.68147E-04

F-TEST Value is 3.110

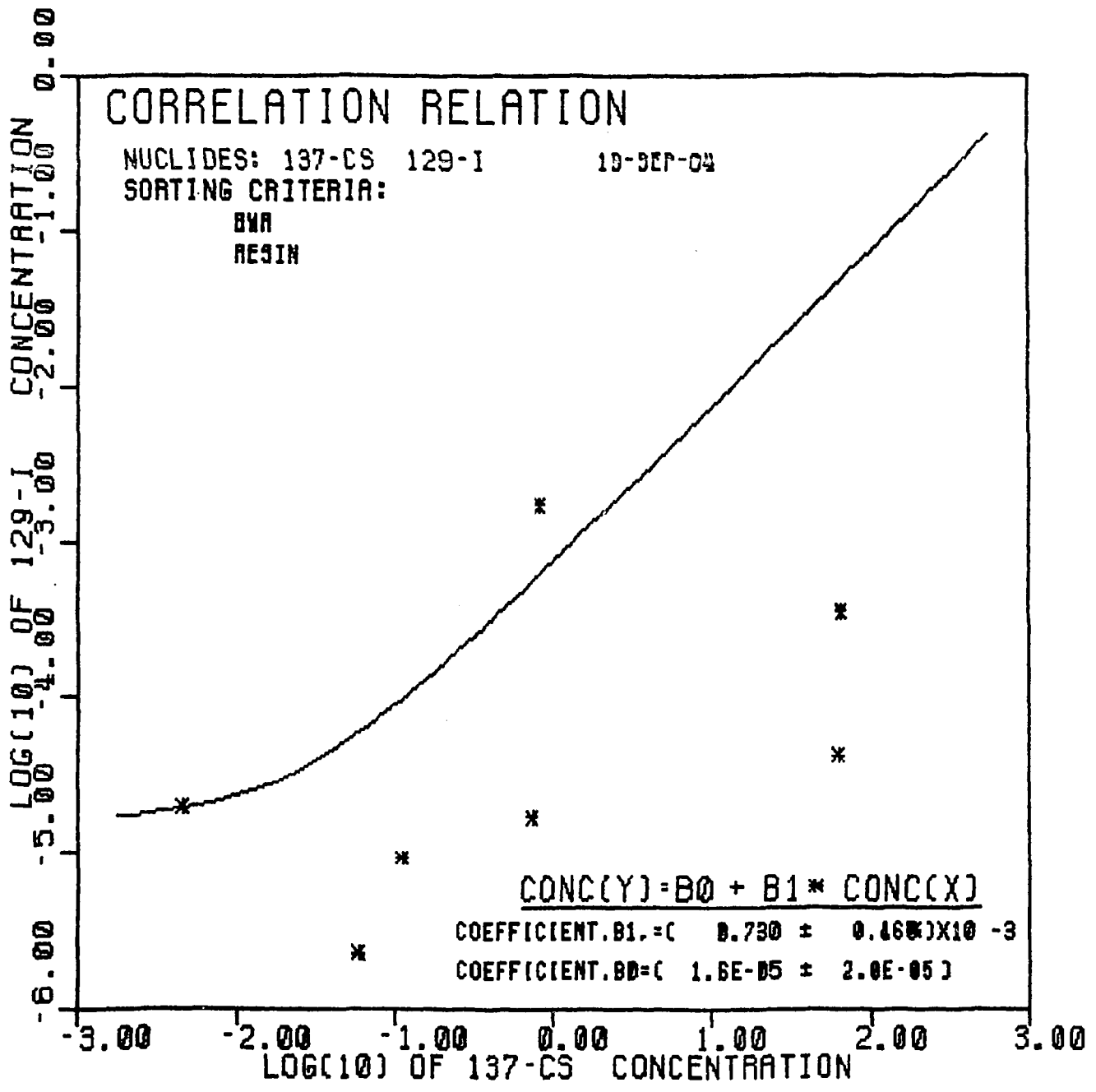
Confidence Level for this Correlation is: 86. %

137-C8 129-I 2

BWR

RESIN

0. 18800E+03	0. 94000E+01	0. 32300E-05	0. 15000E-05	T112
0. 65900E+02	0. 33000E+01	0. 36000E-03	0. 50000E-04	7430
0. 59200E-01	0. 29600E-02	0. 23000E-05	0. 12000E-05	10164
0. 82846E+00	0. 74562E-01	0. 17325E-02	0. 13860E-03	10202
0. 74455E+00	0. 37228E-01	0. 17285E-04	0. 43213E-05	10319
0. 11249E+00	0. 56245E-02	0. 93802E-05	0. 44087E-05	10418
0. 62990E+02	0. 31445E+01	0. 42370E-04	0. 54082E-05	10493
0. 46175E-02	0. 36940E-03	0. 19759E-04	0. 12843E-04	10541



## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 90-SR

Test made on 26-SEP-84

Sorting Criteria are :

BWR  
FILTER SLUDGE

Number of entries in the fit is 69

Zero Offset Value, B0, is 3.70105E-05

Correlation Ratio, B1, is 4.80631E-02

Standard Deviation in B0 is 1.04051E-04

Standard Deviation in B1 is 2.00658E-02

F-TEST Value is 6.159

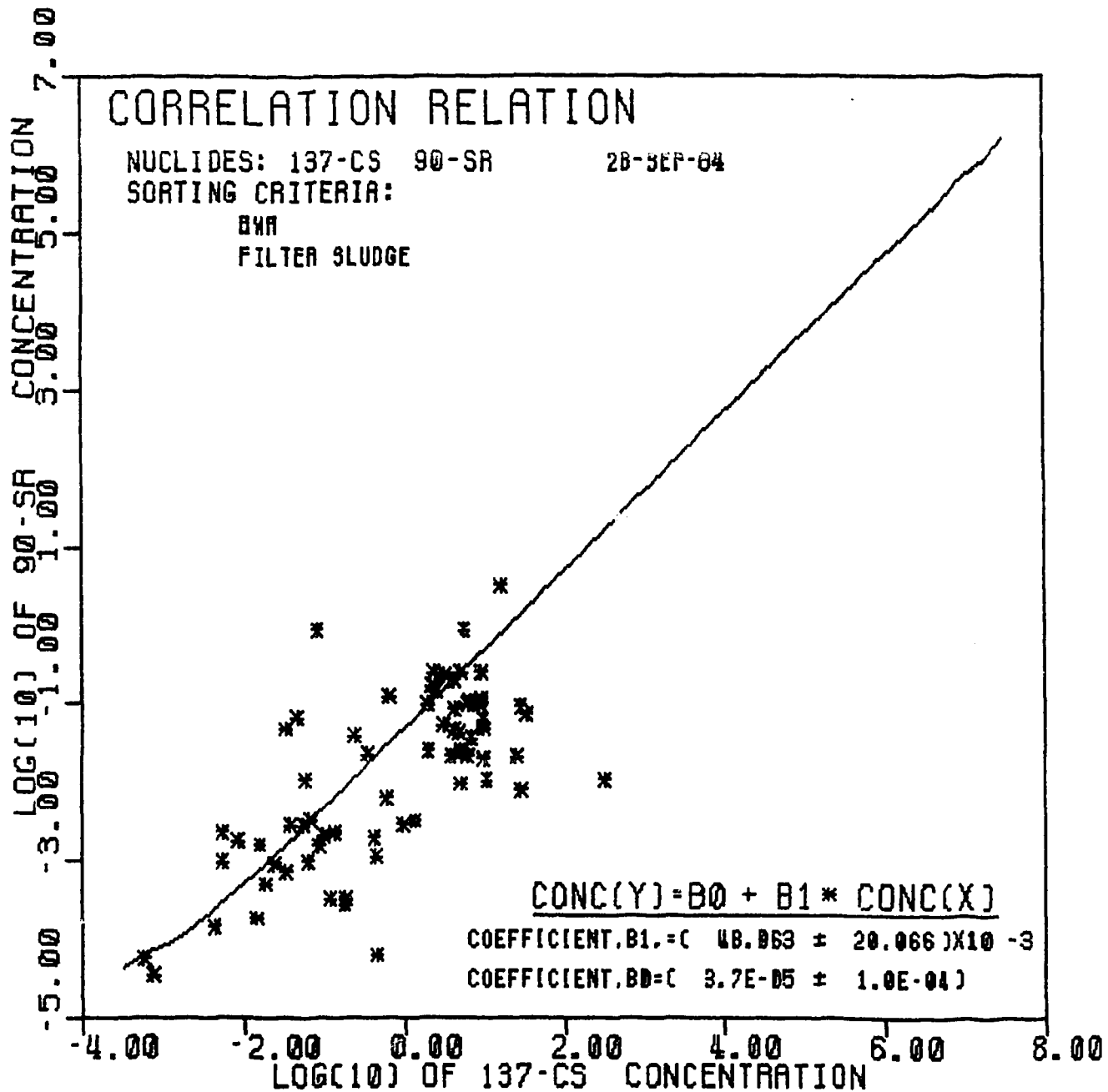
Confidence Level for this Correlation is: 98. %

BWR

## FILTER SLUDGE

0.56000E+01	0.30000E+00	0.84000E+00	0.42000E-01	T065
0.63000E+01	0.31500E+00	0.97700E-01	0.48900E-02	T086
0.51000E+01	0.30000E+00	0.25000E+00	0.12500E-01	T048
0.90000E+01	0.45000E+00	0.25300E+00	0.13000E-01	T066
0.32000E-01	0.20000E-02	0.74500E-03	0.44700E-04	T055
0.47700E+01	0.24000E+00	0.42000E-01	0.21000E-02	6789
0.67500E+01	0.34000E+00	0.10900E+00	0.55000E-02	6786
0.13400E+00	0.70000E-02	0.23400E-02	0.11700E-03	T117
0.62200E+01	0.31100E+00	0.21700E-01	0.11000E-02	7058
0.98000E+01	0.50000E+00	0.20000E-01	0.10000E-02	7063
0.31000E+01	0.20000E+00	0.53100E-01	0.26600E-02	T069
0.45800E-01	0.23000E-02	0.66800E-01	0.33400E-02	T092
0.45600E+00	0.23000E-01	0.64500E-04	0.20000E-04	6996
0.17900E+00	0.89500E-02	0.28600E-03	0.14300E-04	7401
0.42000E+01	0.21000E+00	0.20100E+00	0.10000E-01	6378
0.91000E+01	0.50000E+00	0.12100E+00	0.80000E-02	6813
0.43000E+01	0.21500E+00	0.46100E-01	0.23000E-02	6379
0.68000E+01	0.34000E+00	0.36000E-01	0.40000E-02	6812
0.25800E+01	0.13000E+00	0.14400E+00	0.72000E-02	7087
0.38300E+01	0.19150E+00	0.22000E-01	0.11000E-02	7088
0.28000E+02	0.14000E+01	0.94000E-01	0.19000E-01	T010
0.33000E+02	0.20000E+01	0.75000E-01	0.15000E-01	T046
0.51900E+01	0.26000E+00	0.95100E-02	0.48000E-03	7062
0.84900E+01	0.42450E+00	0.99500E-01	0.50000E-02	7690
0.23900E+01	0.15000E+00	0.25000E+00	0.12500E-01	7686
0.42400E+01	0.21200E+00	0.88000E-01	0.44000E-02	7813
0.96200E+01	0.48100E+00	0.48200E-01	0.24100E-02	7913
0.93300E+01	0.47000E+00	0.61900E-01	0.31000E-02	7915
0.21800E+01	0.11000E+00	0.17000E+00	0.85000E-02	7449
0.44900E+00	0.22450E-01	0.11500E-02	0.11500E-03	7588
0.18300E+00	0.91500E-02	0.33300E-03	0.20000E-03	8002
0.49800E+01	0.25000E+00	0.25400E-01	0.13000E-02	7151
0.51300E+01	0.26000E+00	0.23000E-01	0.11500E-02	7150
0.19700E+01	0.10000E+00	0.97900E-01	0.49000E-02	7674
0.32900E+03	0.23800E+01	0.10900E-01	0.54500E-03	8023
0.55000E-02	0.15000E-02	0.96000E-03	0.48000E-04	9367
0.54000E-01	0.40000E-02	0.29000E-02	0.14500E-03	9119
0.83000E-01	0.19000E-01	0.88000E+00	0.50000E-01	8091
0.59000E-01	0.40000E-02	0.10900E-01	0.54500E-03	9847
0.33000E-01	0.30000E-02	0.48300E-01	0.24200E-02	9800
0.16200E+02	0.81000E+00	0.32600E+01	0.17000E+00	9386
0.96800E+00	0.48400E-01	0.29400E-02	0.14700E-03	9981
0.63000E+00	0.20000E+00	0.63700E-02	0.31850E-03	9982
0.87000E-02	0.39000E-02	0.17900E-02	0.89500E-04	10029
0.55000E-02	0.70000E-03	0.23700E-02	0.11850E-03	10030
0.34000E+00	0.40000E-01	0.23100E-01	0.11550E-02	10166
0.24000E+00	0.30000E-01	0.38600E-01	0.19300E-02	10167
0.42314E+00	0.21157E-01	0.20000E-02	0.10000E-03	10203
0.65455E+00	0.32728E-01	0.12568E+00	0.62840E-02	10271
0.57007E-03	0.28504E-04	0.57849E-04	0.57849E-05	10386
0.64860E-01	0.17512E-01	0.32887E-02	0.16444E-03	10407
0.17928E-01	0.89642E-03	0.51112E-03	0.30667E-04	10408
0.13543E+00	0.67715E-02	0.22600E-02	0.11300E-03	10409
0.23522E-01	0.11996E-01	0.92065E-03	0.46033E-04	10416
0.11877E+00	0.59385E-02	0.33547E-03	0.20128E-04	10419
0.36788E-01	0.10301E-01	0.28512E-02	0.14256E-03	10426
0.42869E-02	0.34295E-03	0.14815E-03	0.16297E-04	10427
0.14122E-01	0.70611E-03	0.19021E-03	0.20923E-04	10428
0.20149E+01	0.10075E+00	0.25400E-01	0.12700E-02	10478
0.13842E+01	0.69210E-01	0.32382E-02	0.16191E-03	10479

0. 62917E-01	0. 31459E-02	0. 10151E-02	0. 50757E-04	10496
0. 84666E-01	0. 42333E-02	0. 15765E-02	0. 78825E-04	10497
0. 95269E-01	0. 47635E-02	0. 20924E-02	0. 10462E-03	10498
0. 10622E+02	0. 53110E+00	0. 10649E-01	0. 53245E-03	10508
0. 28146E+02	0. 14073E+01	0. 80809E-02	0. 40405E-03	10509
0. 25109E+02	0. 12555E+01	0. 21298E-01	0. 10649E-02	10510
0. 73855E-03	0. 51698E-04	0. 35923E-04	0. 39515E-05	10538
0. 32512E+01	0. 16256E+00	0. 23845E+00	0. 11923E-01	10582
0. 15681E-01	0. 64291E-02	0. 16275E-02	0. 81375E-04	10549



## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 99-TC

Test made on 26-SEP-84

Sorting Criteria are :

BWR  
FILTER SLUDGE

Number of entries in the fit is 5

Zero Offset Value, B0, is  $-2.17352E-04$

Correlation Ratio, B1, is  $2.18683E-03$

Standard Deviation in B0 is  $2.32594E-03$

Standard Deviation in B1 is  $1.87830E-03$

F-TEST Value is 4.001

Confidence Level for this Correlation is: 86. %

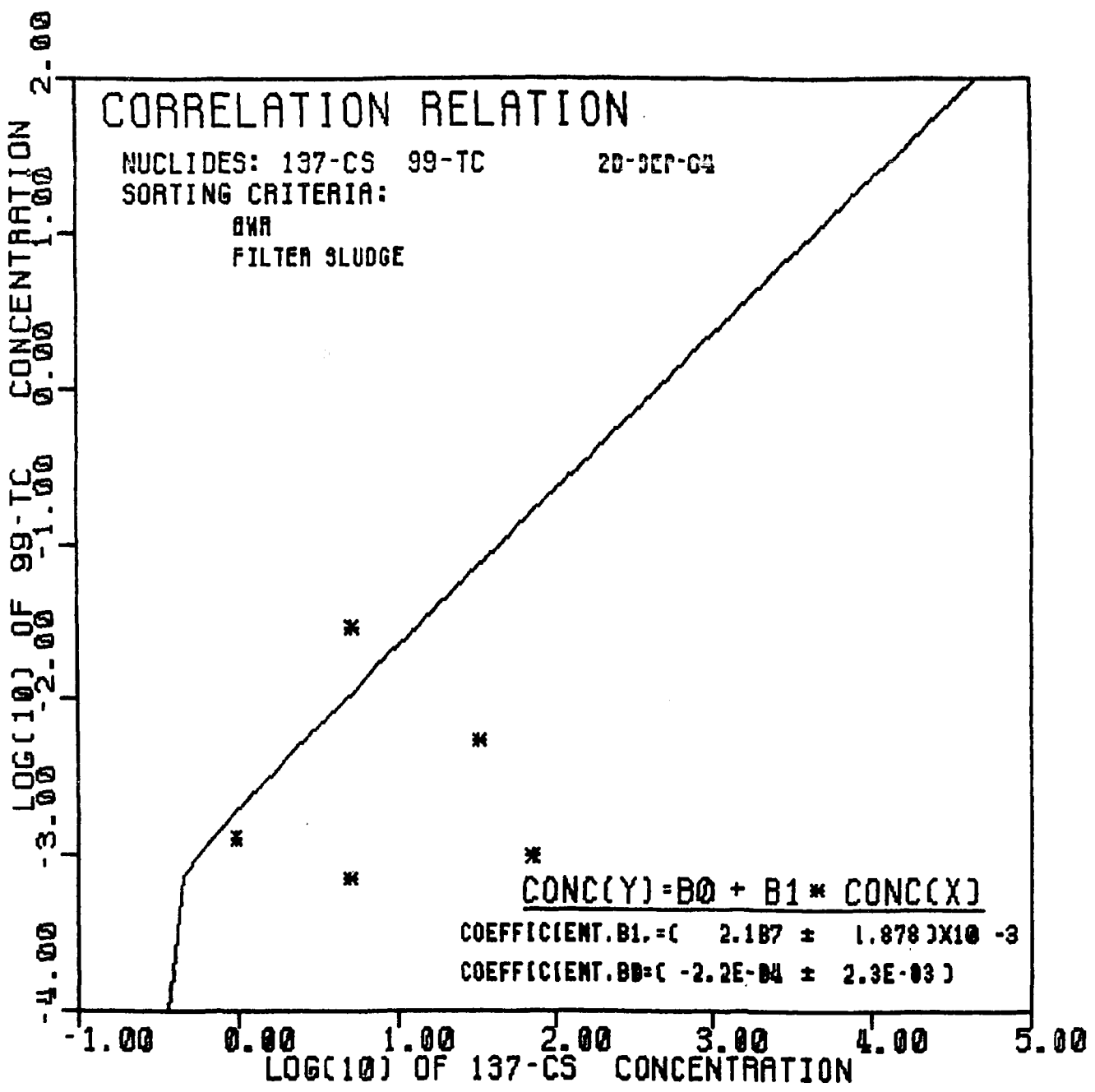


137-CS 99-TC 2

BWR

FILTER SLUDGE

0.72000E+02	0.36000E+01	0.10000E-02	0.50000E-03	T087
0.33000E+02	0.20000E+01	0.55000E-02	0.80000E-03	T046
0.49800E+01	0.25000E+00	0.72000E-03	0.46000E-03	7151
0.51300E+01	0.26000E+00	0.29000E-01	0.50000E-02	7150
0.76600E+00	0.48400E-01	0.13000E-02	0.10000E-03	9781



# CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 129-I

Test made on 26-SEP-84

Sorting Criteria are :

BWR  
FILTER SLUDGE

Number of entries in the fit is 7

Zero Offset Value, B0, is 4.76571E-07

Correlation Ratio, B1, is 2.26194E-04

Standard Deviation in B0 is 5.45704E-07

Standard Deviation in B1 is 1.14917E-04

F-TEST Value is 8.715

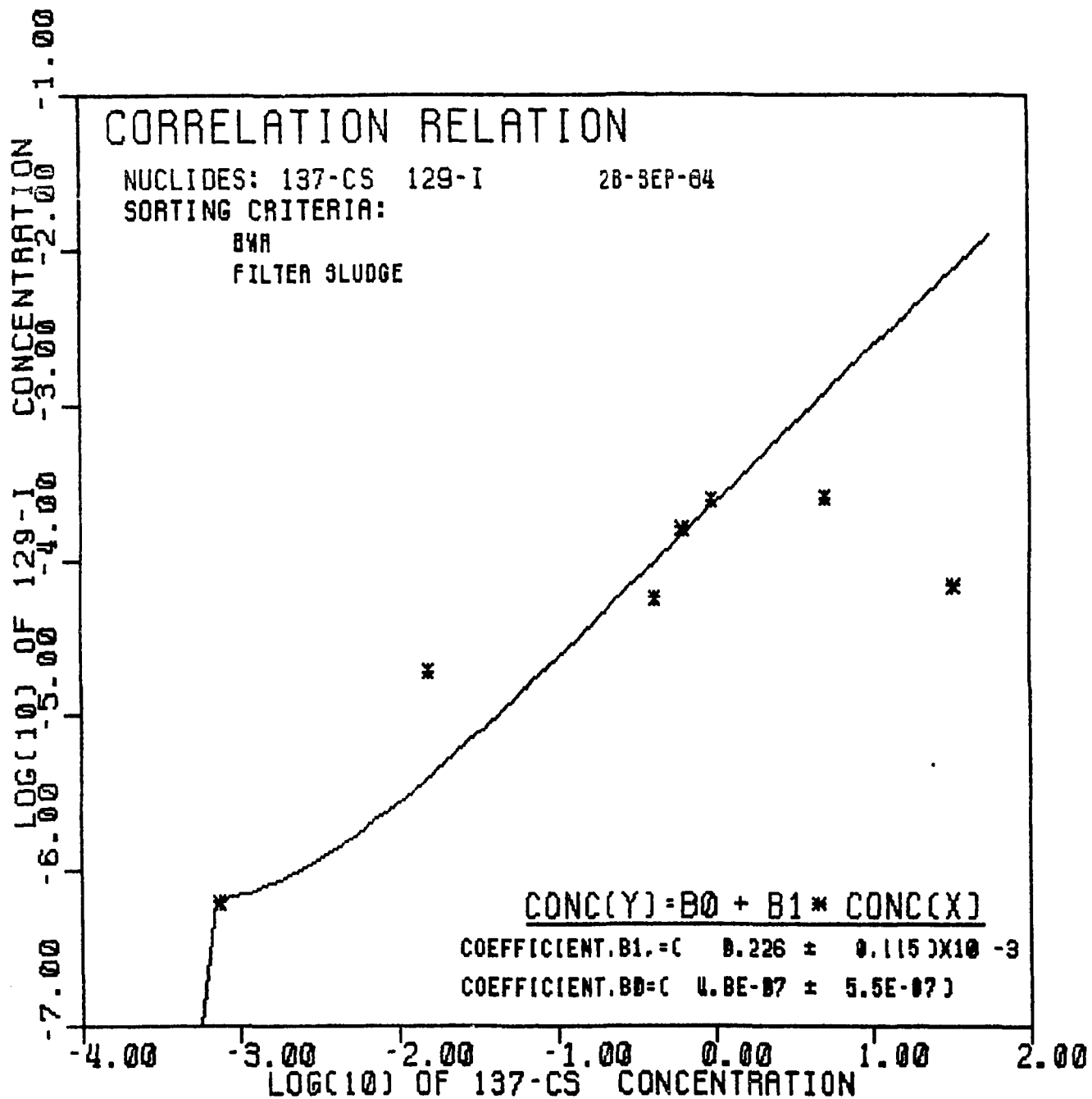
Confidence Level for this Correlation is: 96. %

137-C8 129-I 2

BWR

FILTER SLUDGE

0.33000E+02	0.20000E+01	0.69000E-04	0.17000E-04	T046
0.51300E+01	0.26000E+00	0.25000E-03	0.90000E-04	7150
0.96800E+00	0.48400E-01	0.24000E-03	0.20000E-04	9981
0.63000E+00	0.20000E+00	0.16000E-03	0.50000E-04	9982
0.42314E+00	0.21157E-01	0.56959E-04	0.27340E-04	10203
0.73855E-03	0.51698E-02	0.62731E-06	0.33248E-06	10538
0.13681E-01	0.64271E-02	0.17000E-04	0.74100E-03	10547



## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 90-SR

Test made on 28-SEP-84

Sorting Criteria are :

PWR  
DRY ACTIVE WASTE

Number of entries in the fit is 20

Zero Offset Value, B0, is 2.97706E-04

Correlation Ratio, B1, is 5.50153E-02

Standard Deviation in B0 is 1.12595E-04

Standard Deviation in B1 is 3.01274E-02

F-TEST Value is 1.207

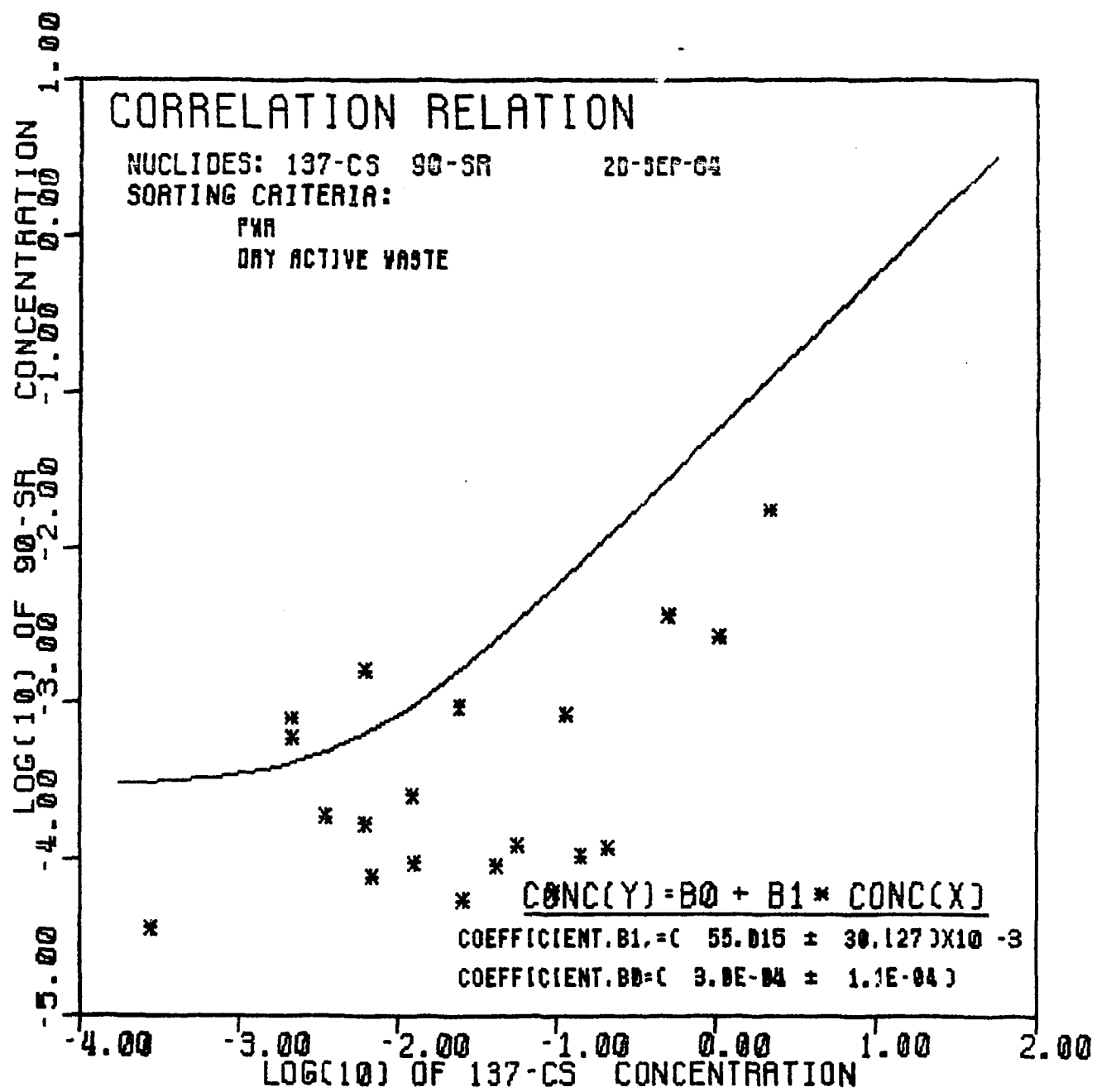
Confidence Level for this Correlation is: 65. %

137-CS 90-SR 2

PWR

DRY ACTIVE WASTE

0. 22000E+01	0. 50000E+00	0. 17500E-01	0. 87500E-03	10007
0. 96200E-01	0. 48100E-02	0. 63000E-04	0. 70000E-05	10160
0. 41200E-01	0. 20600E-02	0. 93024E-04	0. 33489E-04	10212
0. 25900E-01	0. 12950E-02	0. 55486E-04	0. 29408E-04	10213
0. 62549E-02	0. 75058E-03	0. 17184E-03	0. 67016E-04	10247
0. 14232E+00	0. 99624E-02	0. 10709E-03	0. 12851E-04	10236
0. 11505E+00	0. 57525E-02	0. 84775E-03	0. 42387E-04	10274
0. 21800E-02	0. 10900E-03	0. 59704E-03	0. 16120E-03	10313
0. 22045E-02	0. 11022E-03	0. 80671E-03	0. 40336E-04	10280
0. 63524E-02	0. 31762E-03	0. 16300E-02	0. 97600E-04	10283
0. 68941E-02	0. 34471E-03	0. 78793E-04	0. 49639E-04	10354
0. 12268E-01	0. 61340E-03	0. 26116E-03	0. 75737E-04	10357
0. 35705E-02	0. 17853E-03	0. 18848E-03	0. 64085E-04	10360
0. 24463E-01	0. 12232E-02	0. 96601E-03	0. 86941E-04	10363
0. 21115E+00	0. 10558E-01	0. 12000E-03	0. 46800E-04	10397
0. 12804E-01	0. 64020E-03	0. 95749E-04	0. 42130E-04	10398
0. 10504E+01	0. 52520E-01	0. 26832E-02	0. 13416E-03	10529
0. 50962E+00	0. 25481E-01	0. 36974E-02	0. 18487E-03	10530
0. 56989E-01	0. 28495E-02	0. 12502E-03	0. 66263E-04	10552
0. 28500E-03	0. 14250E-04	0. 36714E-04	0. 19091E-04	10683





## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 90-SR

Test made on 28-SEP-84

Sorting Criteria are :

BWR  
DRY ACTIVE WASTE

Number of entries in the fit is 11

Zero Offset Value, B0, is 1.44503E-04

Correlation Ratio, B1, is 1.16294E-02

Standard Deviation in B0 is 1.58453E-04

Standard Deviation in B1 is 4.92975E-03

F-TEST Value is 0.974

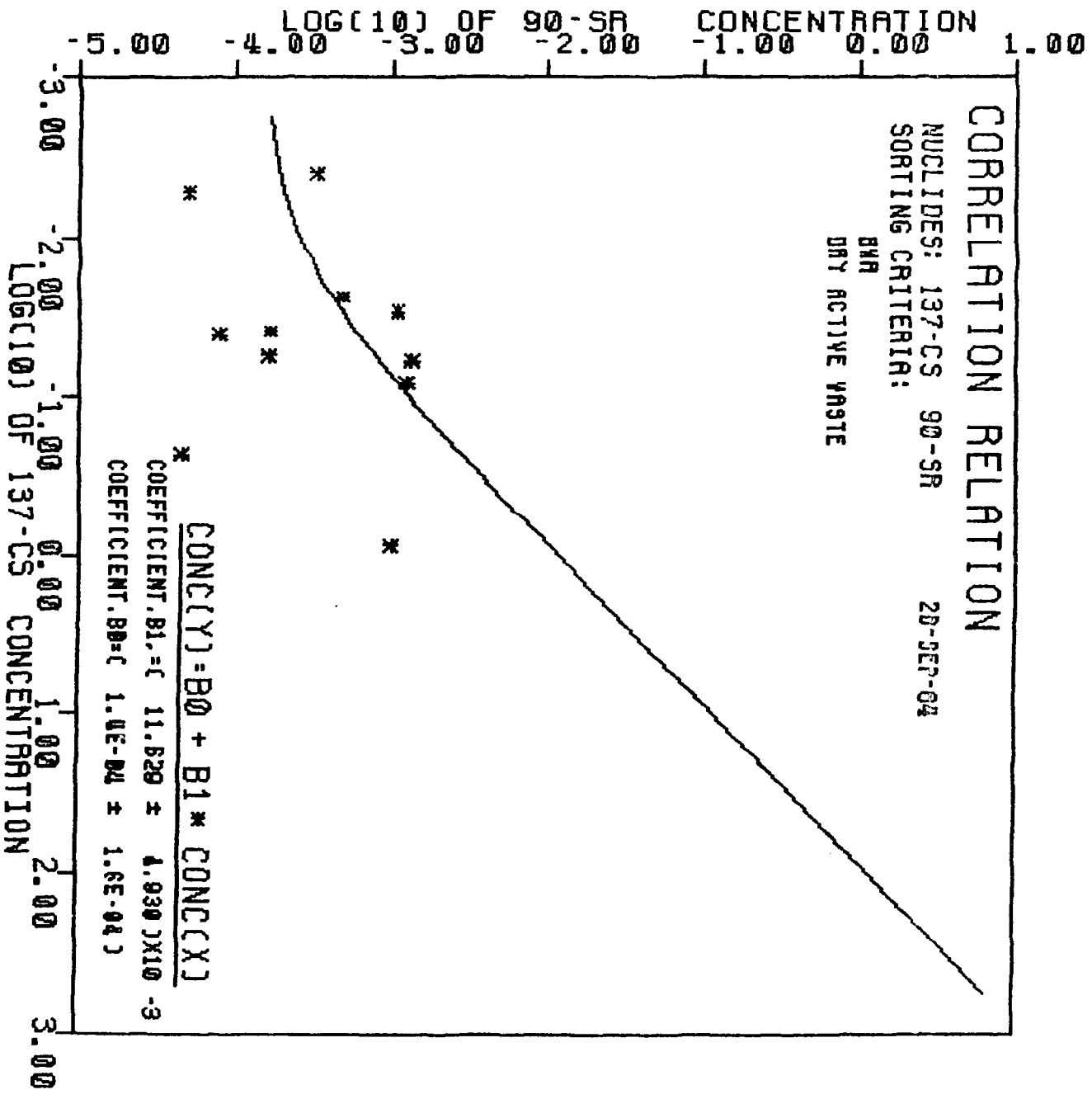
Confidence Level for this Correlation is: 0. %

137-CS 90-SR 2

BWR

DRY ACTIVE WASTE

0. 23700E-01	0. 11850E-02	0. 49000E-03	0. 60000E-04	10165
0. 59130E-01	0. 29565E-02	0. 13400E-02	0. 67000E-04	10204
0. 29400E-01	0. 14700E-02	0. 11000E-02	0. 57200E-03	10261
0. 22876E+00	0. 11438E-01	0. 46400E-04	0. 46400E-05	10320
0. 86041E+00	0. 43020E-01	0. 10100E-02	0. 53530E-03	10348
0. 51876E-02	0. 31125E-03	0. 50567E-04	0. 31352E-04	10442
0. 38422E-01	0. 19211E-02	0. 16682E-03	0. 43373E-04	10414
0. 55232E-01	0. 27616E-02	0. 16603E-03	0. 38187E-04	10424
0. 40268E-01	0. 20134E-02	0. 78990E-04	0. 33966E-04	10433
0. 82281E-01	0. 41141E-02	0. 12669E-02	0. 76013E-03	10499
0. 37872E-02	0. 77784E-03	0. 32771E-03	0. 19826E-03	10537



## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 90-SR

Test made on 19-OCT-84

Sorting Criteria are :

PWR  
REACTOR COOLANT

Number of entries in the fit is 58

Zero Offset Value, B0, is 9.43500E-08

Correlation Ratio, B1, is 1.18258E-02

Standard Deviation in B0 is 2.90986E-08

Standard Deviation in B1 is 8.82373E-03

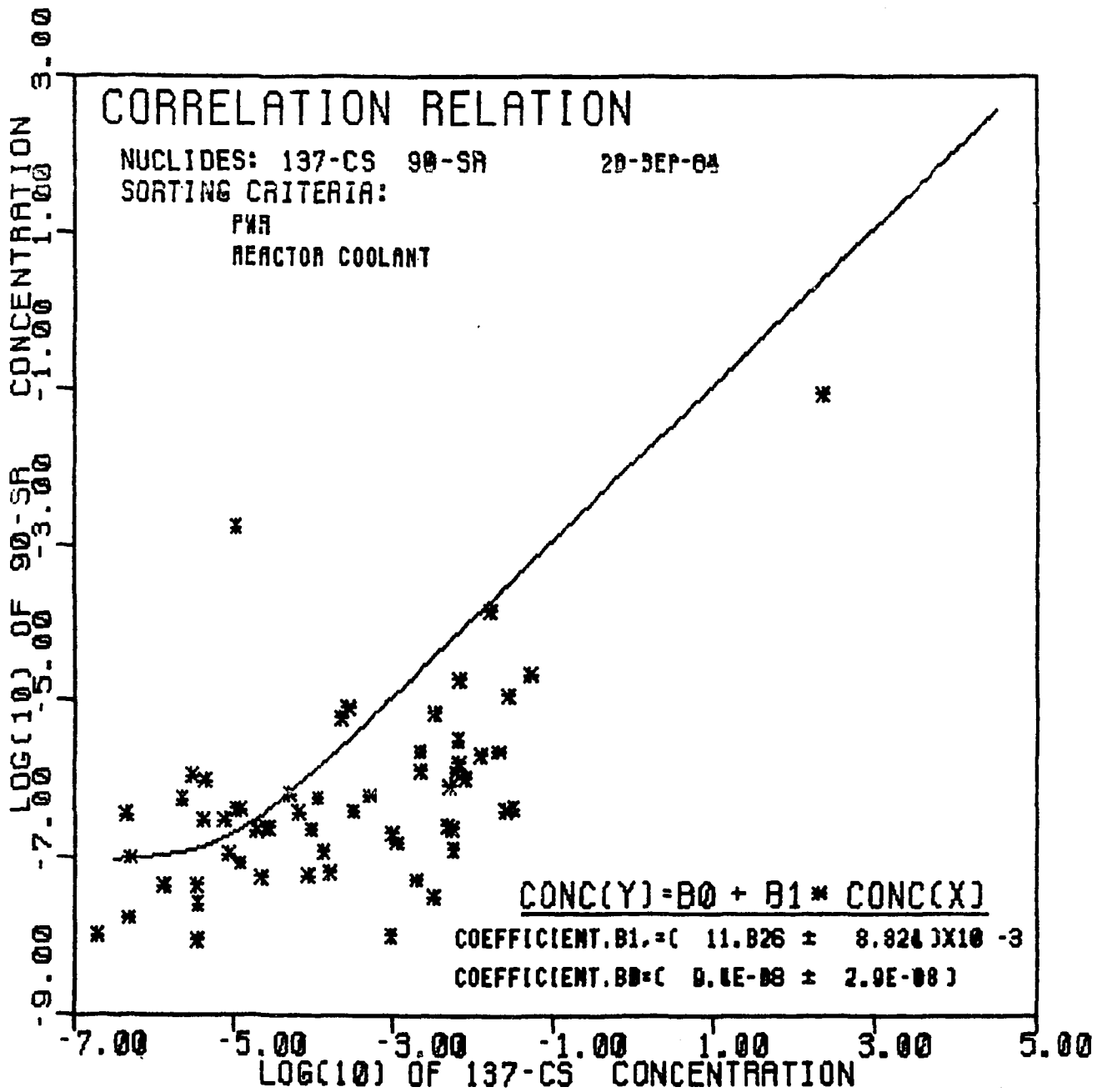
F-TEST Value is 0.164

Confidence Level for this Correlation is: 32. %

PWR

## REACTOR COOLANT

0. 51000E-04	0. 30000E-05	0. 66000E-06	0. 38000E-06	T076
0. 65000E-04	0. 32500E-05	0. 39000E-06	0. 39000E-07	6724
0. 23000E-05	0. 30000E-06	0. 57900E-06	0. 35000E-07	6725
0. 11400E-03	0. 60000E-05	0. 60000E-06	0. 36000E-07	6729
0. 86600E-04	0. 43300E-05	0. 62000E-07	0. 93000E-08	6730
0. 84800E-05	0. 42400E-06	0. 11400E-06	0. 17000E-07	7164
0. 10700E-04	0. 30000E-05	0. 17000E-02	0. 85000E-04	7131
0. 12500E-04	0. 62500E-06	0. 41600E-06	0. 20800E-07	7050
0. 46000E-06	0. 20000E-06	0. 35900E-06	0. 19000E-07	6843
0. 36000E-05	0. 20000E-06	0. 26600E-07	0. 48000E-08	6842
0. 19500E-04	0. 10000E-05	0. 22400E-06	0. 20000E-07	7897
0. 45300E-05	0. 49000E-06	0. 99300E-06	0. 49650E-07	7562
0. 41800E-05	0. 21000E-06	0. 31200E-06	0. 16000E-07	7433
0. 19400E-06	0. 65000E-07	0. 10600E-07	0. 39000E-08	8025
0. 15800E-03	0. 80000E-05	0. 68700E-07	0. 96200E-08	7395
0. 10700E-04	0. 53500E-06	0. 42900E-06	0. 34000E-07	7386
0. 50400E-06	0. 54000E-07	0. 10200E-06	0. 51000E-08	7432
0. 31807E-01	0. 15900E-02	0. 45000E-06	0. 12000E-06	9760
0. 51213E-02	0. 25600E-03	0. 87000E-06	0. 15000E-06	9761
0. 47617E-02	0. 23800E-03	0. 27000E-06	0. 13000E-06	9762
0. 48000E-06	0. 28000E-06	0. 17500E-07	0. 90000E-09	9503
0. 11143E-02	0. 55500E-04	0. 16400E-06	0. 64345E-08	9505
0. 22700E+03	0. 11350E+02	0. 88000E-01	0. 44000E-02	9245
0. 13174E-03	0. 61655E-05	0. 12480E-06	0. 44162E-08	10058
0. 32895E-02	0. 16400E-03	0. 33300E-07	0. 29618E-08	10059
0. 35000E-05	0. 11000E-05	0. 92000E-08	0. 22000E-08	9994
0. 34000E-05	0. 17000E-05	0. 46800E-07	0. 31000E-08	9995
0. 50200E-03	0. 25100E-04	0. 65300E-06	0. 87000E-07	10121
0. 32800E-02	0. 16400E-03	0. 74000E-05	0. 10000E-05	10112
0. 31800E-03	0. 15900E-04	0. 41224E-06	0. 67013E-07	10137
0. 94000E-04	0. 47000E-05	0. 24000E-06	0. 70000E-07	10149
0. 81600E-02	0. 40800E-03	0. 11000E-05	0. 30000E-06	10158
0. 95600E-03	0. 47800E-04	0. 22000E-06	0. 80000E-07	10171
0. 27650E-01	0. 13808E-02	0. 12616E-04	0. 63003E-06	10206
0. 12606E-01	0. 62955E-03	0. 22000E-05	0. 44000E-06	10205
0. 21636E-02	0. 10818E-03	0. 24260E-05	0. 41242E-06	10248
0. 65535E-02	0. 32768E-03	0. 17279E-05	0. 39742E-06	10249
0. 26408E-03	0. 66020E-04	0. 85988E-05	0. 16338E-05	10230
0. 24715E-01	0. 12358E-02	0. 41600E-06	0. 20800E-07	10285
0. 64390E-02	0. 32181E-03	0. 33536E-05	0. 90547E-06	10307
0. 16527E-01	0. 82598E-03	0. 15180E-03	0. 75853E-05	10308
0. 27668E-04	0. 15217E-04	0. 25293E-06	0. 22764E-07	10364
0. 93338E-03	0. 46669E-04	0. 10708E-07	0. 54610E-08	10457
0. 50068E-01	0. 25034E-02	0. 23239E-04	0. 11619E-05	10275
0. 62822E-02	0. 31411E-03	0. 13015E-05	0. 31236E-06	10277
0. 20591E-01	0. 10291E-02	0. 24055E-05	0. 10720E-06	10501
0. 22443E-02	0. 11213E-03	0. 13688E-05	0. 67813E-07	10503
0. 76666E-05	0. 38333E-06	0. 30595E-06	0. 15298E-07	10520
0. 24624E-04	0. 12312E-05	0. 25465E-06	0. 12732E-07	10521
0. 12154E-04	0. 60770E-06	0. 87969E-07	0. 79172E-08	10522
0. 22589E-04	0. 11295E-05	0. 59371E-07	0. 71245E-08	10524
0. 21993E-03	0. 10997E-04	0. 63193E-05	0. 31597E-06	10557
0. 56000E-02	0. 28000E-03	0. 13600E-06	0. 95000E-08	10333
0. 53500E-02	0. 26800E-03	0. 25000E-06	0. 17500E-07	10334
0. 19900E-02	0. 99500E-04	0. 55200E-07	0. 77500E-08	10339
0. 13369E-05	0. 14706E-06	0. 45456E-07	0. 10000E-07	10645
0. 67528E-02	0. 33764E-03	0. 20400E-04	0. 10200E-05	10759
0. 30420E-05	0. 15514E-05	0. 11283E-05	0. 55866E-07	10727



## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 90-SR

Test made on 03-OCT-84

Sorting Criteria are :

MONTICELLO

Number of entries in the fit is 24

Zero Offset Value, B0, is 2.92078E-08

Correlation Ratio, B1, is 3.00896E-02

Standard Deviation in B0 is 3.77441E-08

Standard Deviation in B1 is 1.11805E-02

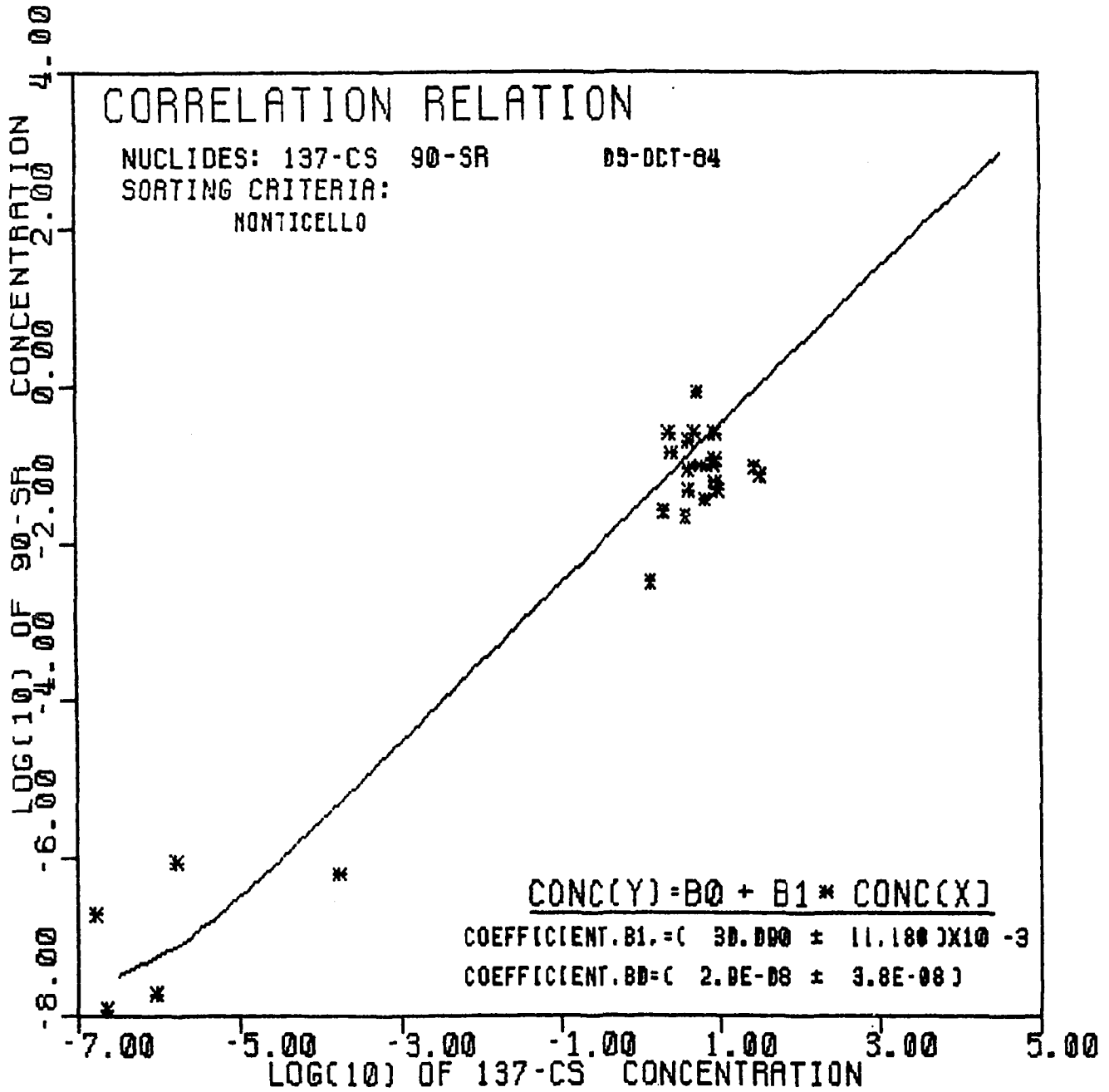
F-TEST Value is 10.098

Confidence Level for this Correlation is: 99. %

MONTICELLO

0. 22000E-06	0. 60000E-07	0. 12200E-07	0. 10000E-08	6806
0. 92000E-06	0. 42000E-06	0. 19000E-07	0. 37000E-08	6366
0. 16000E-06	0. 11000E-06	0. 19800E-06	0. 12000E-07	T064
0. 56000E+01	0. 30000E+00	0. 84000E+00	0. 42000E-01	T065
0. 63000E+01	0. 31500E+00	0. 97700E-01	0. 48900E-02	T086
0. 51000E+01	0. 30000E+00	0. 25000E+00	0. 12500E-01	T048
0. 90000E+01	0. 45000E+00	0. 25300E+00	0. 13000E-01	T066
0. 42000E+01	0. 21000E+00	0. 20100E+00	0. 10000E-01	6378
0. 91000E+01	0. 50000E+00	0. 12100E+00	0. 80000E-02	6813
0. 43000E+01	0. 21500E+00	0. 46100E-01	0. 23000E-02	6379
0. 68000E+01	0. 34000E+00	0. 36000E-01	0. 40000E-02	6812
0. 25800E+01	0. 13000E+00	0. 14400E+00	0. 72000E-02	7087
0. 38300E+01	0. 19150E+00	0. 22000E-01	0. 11000E-02	7088
0. 28000E+02	0. 14000E+01	0. 94000E-01	0. 19000E-01	T010
0. 33000E+02	0. 20000E+01	0. 75000E-01	0. 15000E-01	T046
0. 84900E+01	0. 42450E+00	0. 99500E-01	0. 50000E-02	7690
0. 23900E+01	0. 15000E+00	0. 25000E+00	0. 12500E-01	7686
0. 42400E+01	0. 21200E+00	0. 88000E-01	0. 44000E-02	7813
0. 96200E+01	0. 48100E+00	0. 48200E-01	0. 24100E-02	7913
0. 93300E+01	0. 47000E+00	0. 61900E-01	0. 31000E-02	7915
0. 16000E-05	0. 80000E-06	0. 91000E-06	0. 10000E-06	10147
0. 17100E-03	0. 85500E-05	0. 65200E-06	0. 38000E-07	9922
0. 20149E+01	0. 10075E+00	0. 25400E-01	0. 12700E-02	10478
0. 13842E+01	0. 69210E-01	0. 32382E-02	0. 16191E-03	10479





## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 90-SR

Test made on 03-OCT-84

Sorting Criteria are :

OYSTER CREEK

Number of entries in the fit is 41

Zero Offset Value, B0, is 2.12048E-08

Correlation Ratio, B1, is 1.63242E-01

Standard Deviation in B0 is 3.10246E-07

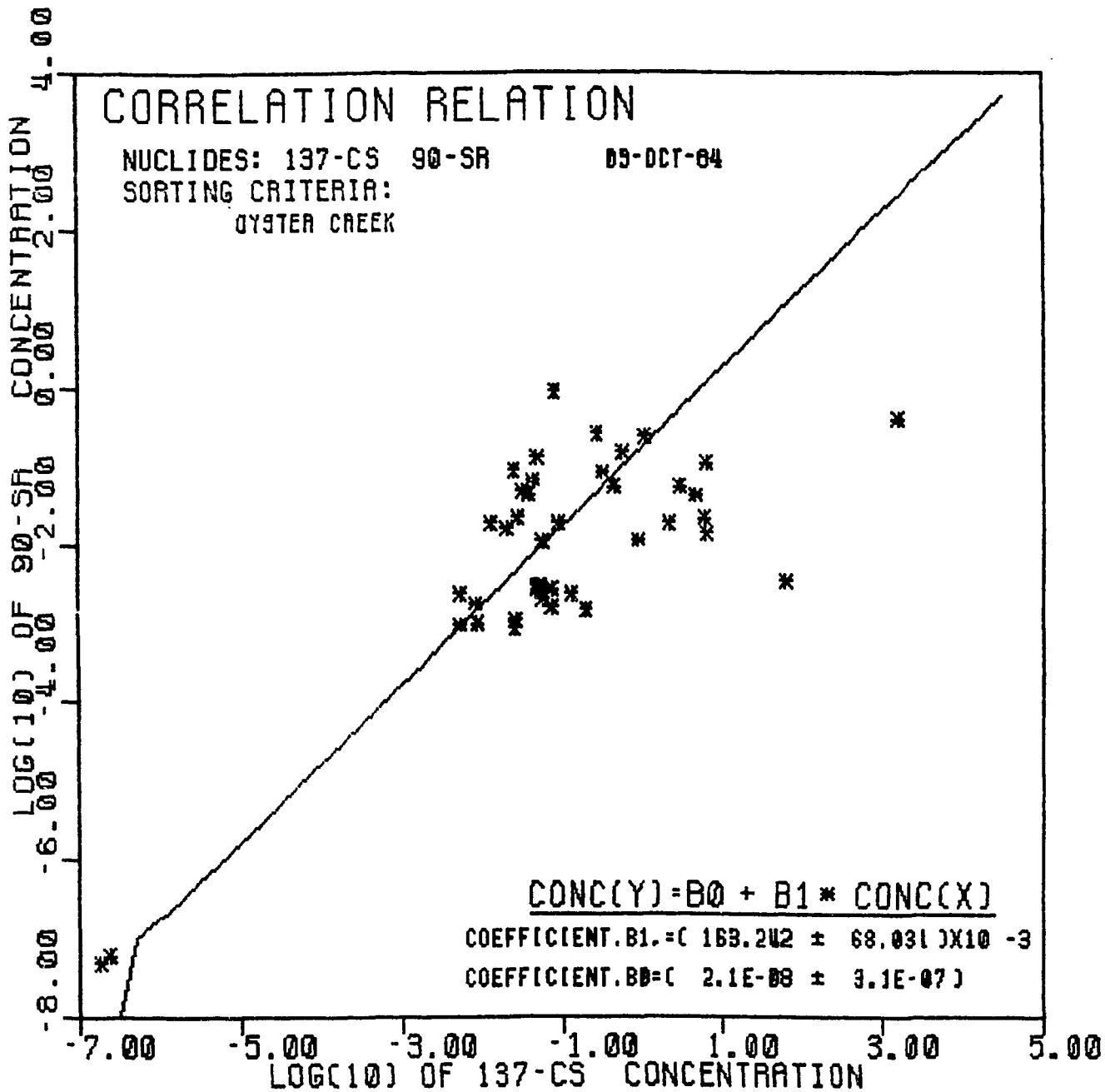
Standard Deviation in B1 is 6.80306E-02

F-TEST Value is 6.558

Confidence Level for this Correlation is: 98. %

137-CS 90-SR 1  
 OYSTER CREEK

0. 24000E-06	0. 90000E-07	0. 61000E-07	0. 79000E-08	T094
0. 18000E-06	0. 80000E-07	0. 50000E-07	0. 12000E-07	4727
0. 47700E+01	0. 24000E+00	0. 42000E-01	0. 21000E-02	6789
0. 67500E+01	0. 34000E+00	0. 10900E+00	0. 55000E-02	6786
0. 13400E+00	0. 70000E-02	0. 23400E-02	0. 11700E-03	T117
0. 62200E+01	0. 31100E+00	0. 21700E-01	0. 11000E-02	7058
0. 31000E+01	0. 20000E+00	0. 53100E-01	0. 26600E-02	T069
0. 45800E-01	0. 23000E-02	0. 66800E-01	0. 33400E-02	T092
0. 51000E-01	0. 30000E-02	0. 13000E+00	0. 65000E-02	T007
0. 65900E+02	0. 33000E+01	0. 34600E-02	0. 17300E-03	7450
0. 26000E-01	0. 13000E-02	0. 88900E-01	0. 44500E-02	T070
0. 46000E+00	0. 23000E-01	0. 54100E-01	0. 27050E-02	T091
0. 27900E+00	0. 19000E-01	0. 25600E+00	0. 13000E-01	6792
0. 91000E-01	0. 45500E-02	0. 19000E-01	0. 10000E-02	9365
0. 55000E-02	0. 15000E-02	0. 96000E-03	0. 48000E-04	9267
0. 16200E+04	0. 90000E+02	0. 40000E+00	0. 20000E-01	9636
0. 51000E-01	0. 25500E-02	0. 30000E-02	0. 15000E-03	9634
0. 65700E+01	0. 34000E+00	0. 14000E-01	0. 10000E-02	9117
0. 77000E-01	0. 38500E-02	0. 16000E-02	0. 10000E-03	9118
0. 54000E-01	0. 40000E-02	0. 29000E-02	0. 14500E-03	9119
0. 58000E+00	0. 30000E-01	0. 15000E+00	0. 10000E-01	8090
0. 83000E-01	0. 19000E-01	0. 88000E+00	0. 50000E-01	8091
0. 26000E-01	0. 13000E-02	0. 88000E-03	0. 50000E-04	8092
0. 27000E-01	0. 13500E-02	0. 11000E-02	0. 10000E-03	8093
0. 90000E-02	0. 45000E-03	0. 10000E-02	0. 10000E-03	8094
0. 76000E-01	0. 38000E-02	0. 27000E-02	0. 13500E-03	9846
0. 59000E-01	0. 40000E-02	0. 10900E-01	0. 54500E-03	9847
0. 91000E+00	0. 45500E-01	0. 11300E-01	0. 56500E-03	9799
0. 33000E-01	0. 30000E-02	0. 48300E-01	0. 24200E-02	9800
0. 87000E-02	0. 39000E-02	0. 17900E-02	0. 89500E-04	10029
0. 55000E-02	0. 70000E-03	0. 23700E-02	0. 11850E-03	10030
0. 58400E-01	0. 29200E-02	0. 20100E-02	0. 10050E-03	10031
0. 50000E-01	0. 60000E-02	0. 26600E-02	0. 13300E-03	9969
0. 32100E+00	0. 78000E-01	0. 83400E-01	0. 41700E-02	10168
0. 20207E+00	0. 10104E-01	0. 14785E-02	0. 73927E-04	10229
0. 21382E-01	0. 14968E-02	0. 16112E-01	0. 80558E-03	10696
0. 40294E-01	0. 44324E-02	0. 43027E-01	0. 21514E-02	10697
0. 11116E+01	0. 28902E+00	0. 24099E+00	0. 12050E-01	10698
0. 28949E-01	0. 26055E-02	0. 21932E-01	0. 10966E-02	10699
0. 13645E-01	0. 12281E-02	0. 19043E-01	0. 95214E-03	10813
0. 22589E+01	0. 11294E+00	0. 18689E-01	0. 93446E-03	10814



## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 90-SR

Test made on 03-OCT-84

Sorting Criteria are :

VERMONT YANKEE

Number of entries in the fit is 4

Zero Offset Value, B0, is 3.10139E-06

Correlation Ratio, B1, is 3.20946E-03

Standard Deviation in B0 is 2.53410E-05

Standard Deviation in B1 is 2.06035E-03

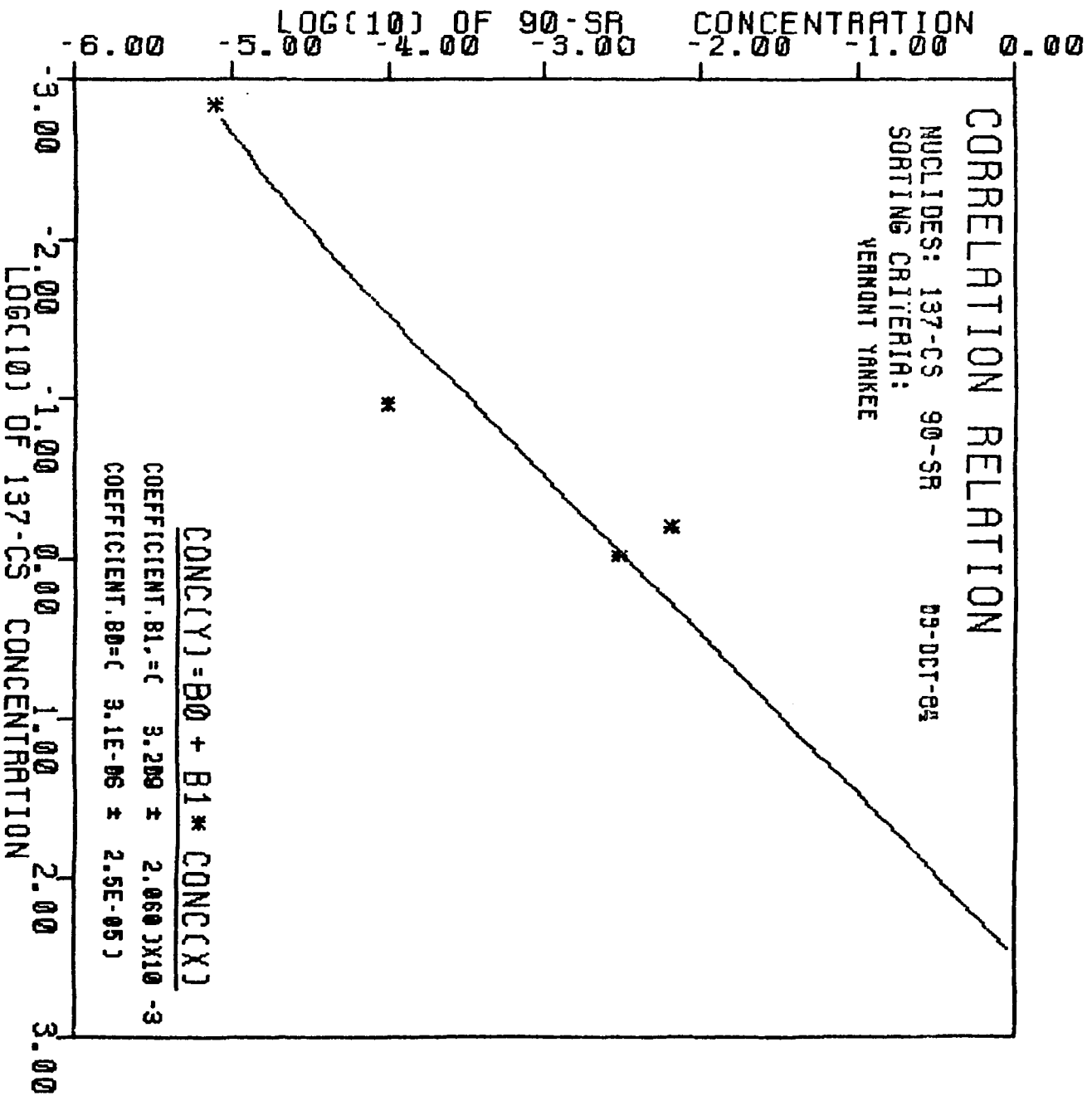
F-TEST Value is 8.434

Confidence Level for this Correlation is: 92. %

137-CS 90-SR 1  
VERMONT YANKEE

0.14300E-02 0.71500E-04 0.79000E-05 0.45000E-05  
0.96800E+00 0.48400E-01 0.29400E-02 0.14700E-03  
0.63000E+00 0.20000E+00 0.63700E-02 0.31850E-03  
0.10800E+00 0.54000E-02 0.98000E-04 0.26000E-04

9980  
9981  
9982  
10186



## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 90-SR

Test made on 03-OCT-84

Sorting Criteria are :

BRUNSWICK

Number of entries in the fit is 36

Zero Offset Value, B0, is 9.23922E-08

Correlation Ratio, B1, is 3.40634E-02

Standard Deviation in B0 is 9.96503E-08

Standard Deviation in B1 is 8.62059E-03

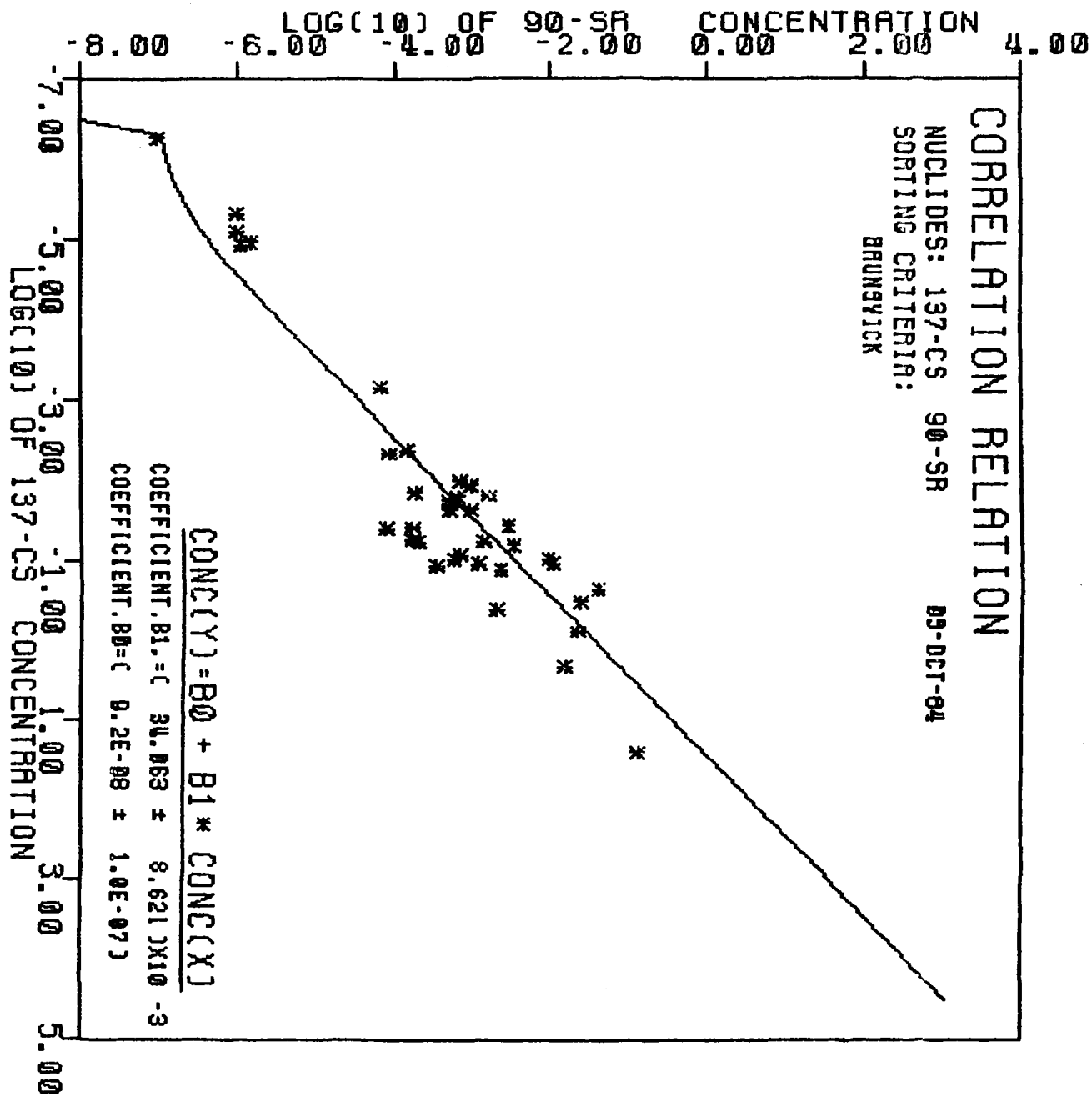
F-TEST Value is 27.363

Confidence Level for this Correlation is: 99. %



## BRUNSWICK

0.26400E+02	0.15000E+01	0.13100E+00	0.70000E-02	9806
0.97000E-01	0.14000E-01	0.56000E-03	0.30000E-04	9807
0.22500E+01	0.11250E+00	0.15000E-01	0.75000E-03	9808
0.49000E-05	0.13000E-05	0.99000E-06	0.27000E-06	10163
0.59200E-01	0.29600E-02	0.20800E-03	0.19000E-04	10164
0.23700E-01	0.11850E-02	0.49000E-03	0.60000E-04	10165
0.34000E+00	0.40000E-01	0.23100E-01	0.11550E-02	10166
0.24000E+00	0.30000E-01	0.38600E-01	0.19300E-02	10167
0.53724E-06	0.19042E-06	0.98000E-07	0.19024E-07	10192
0.11850E-04	0.50955E-05	0.11170E-05	0.39608E-06	10195
0.11117E+00	0.55586E-02	0.10500E-01	0.52500E-03	10200
0.98353E-01	0.49177E-02	0.89100E-02	0.44550E-03	10201
0.82846E+00	0.74562E-01	0.21200E-01	0.10600E-02	10202
0.42314E+00	0.21157E-01	0.20000E-02	0.10000E-03	10203
0.59130E-01	0.29565E-02	0.13400E-02	0.67000E-04	10204
0.64860E-01	0.17512E-01	0.32887E-02	0.16444E-03	10407
0.17928E-01	0.89642E-03	0.51112E-03	0.30667E-04	10408
0.13543E+00	0.67715E-02	0.22600E-02	0.11300E-03	10409
0.81200E-05	0.33300E-05	0.98600E-06	0.48300E-06	10412
0.38422E-01	0.19211E-02	0.16682E-03	0.43373E-04	10414
0.11738E-01	0.70428E-03	0.93358E-03	0.46679E-04	10415
0.23522E-01	0.11996E-01	0.92065E-03	0.46033E-04	10416
0.15800E-01	0.83740E-02	0.64656E-03	0.38793E-04	10417
0.11249E+00	0.56245E-02	0.11452E-02	0.57261E-04	10418
0.11877E+00	0.59385E-02	0.33547E-03	0.20128E-04	10419
0.55232E-01	0.27616E-02	0.16603E-03	0.38187E-04	10424
0.85645E-01	0.42823E-02	0.67381E-03	0.67381E-04	10425
0.36788E-01	0.10301E-01	0.28512E-02	0.14256E-03	10426
0.42869E-02	0.34295E-03	0.14815E-03	0.16297E-04	10427
0.14122E-01	0.70611E-03	0.19021E-03	0.20923E-04	10428
0.40268E-01	0.20134E-02	0.78990E-04	0.33966E-04	10433
0.10156E-01	0.19296E-02	0.68521E-03	0.68521E-04	10434
0.46175E-02	0.36940E-03	0.87423E-04	0.21856E-04	10541
0.10904E-04	0.56700E-05	0.15051E-05	0.33111E-06	10544
0.15681E-01	0.64291E-02	0.16275E-02	0.81375E-04	10549
0.71357E-03	0.92764E-04	0.68570E-04	0.33599E-04	10550



## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 90-SR

Test made on 03-OCT-84

Sorting Criteria are :

PILGRIM

Number of entries in the fit is 12

Zero Offset Value, B0, is 2.32593E-08

Correlation Ratio, B1, is 3.75959E-02

Standard Deviation in B0 is 1.19710E-06

Standard Deviation in B1 is 2.19110E-02

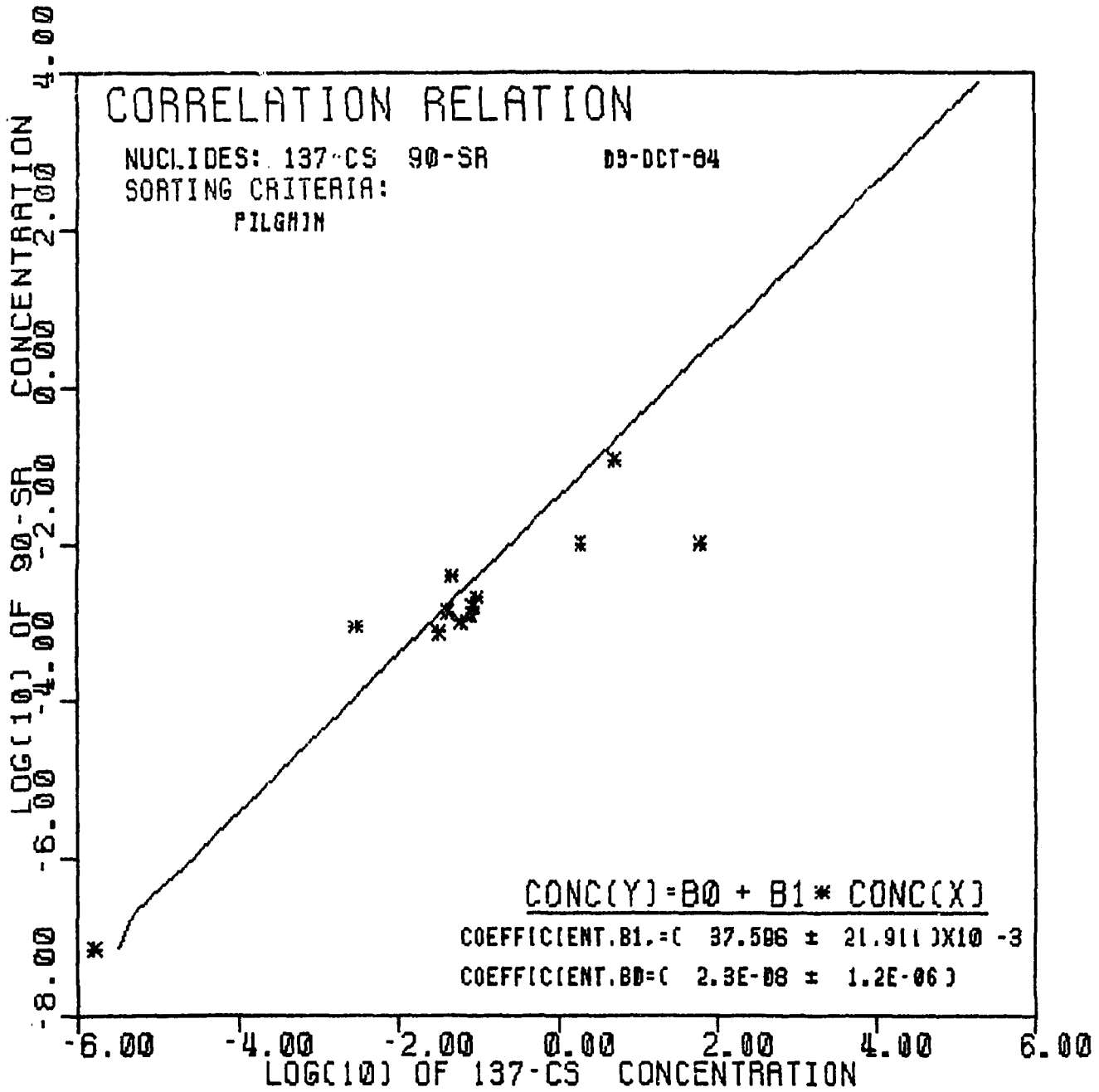
F-TEST Value is 3.655

Confidence Level for this Correlation is: 88. %

137-CS 90-SR 1

PILGRIM

0. 16000E-05	0. 10000E-05	0. 71000E-07	0. 31000E-07	T050
0. 32000E-01	0. 20000E-02	0. 74500E-03	0. 44700E-04	T055
0. 50000E+01	0. 25000E+00	0. 11800E+00	0. 59000E-02	T051
0. 18900E+01	0. 94500E-01	0. 98700E-02	0. 49000E-03	T054
0. 30792E-02	0. 24634E-03	0. 88690E-03	0. 44345E-04	10494
0. 47739E-01	0. 23870E-02	0. 38616E-02	0. 19308E-03	10495
0. 62917E-01	0. 31459E-02	0. 10151E-02	0. 50757E-04	10496
0. 84666E-01	0. 42333E-02	0. 15765E-02	0. 78825E-04	10497
0. 95269E-01	0. 47635E-02	0. 20924E-02	0. 10462E-03	10498
0. 82281E-01	0. 41141E-02	0. 12669E-02	0. 76013E-04	10499
0. 41865E-01	0. 20933E-02	0. 13624E-02	0. 68122E-04	10492
0. 62990E+02	0. 31495E+01	0. 97754E-02	0. 48677E-03	10493



## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 90-SR

Test made on 03-OCT-84

Sorting Criteria are :

BIG ROCK POINT

Number of entries in the fit is 4

Zero Offset Value, B0, is  $-8.97121E-09$

Correlation Ratio, B1, is  $1.91759E-02$

Standard Deviation in B0 is  $1.42059E-07$

Standard Deviation in B1 is  $1.25602E-02$

F-TEST Value is 6.975

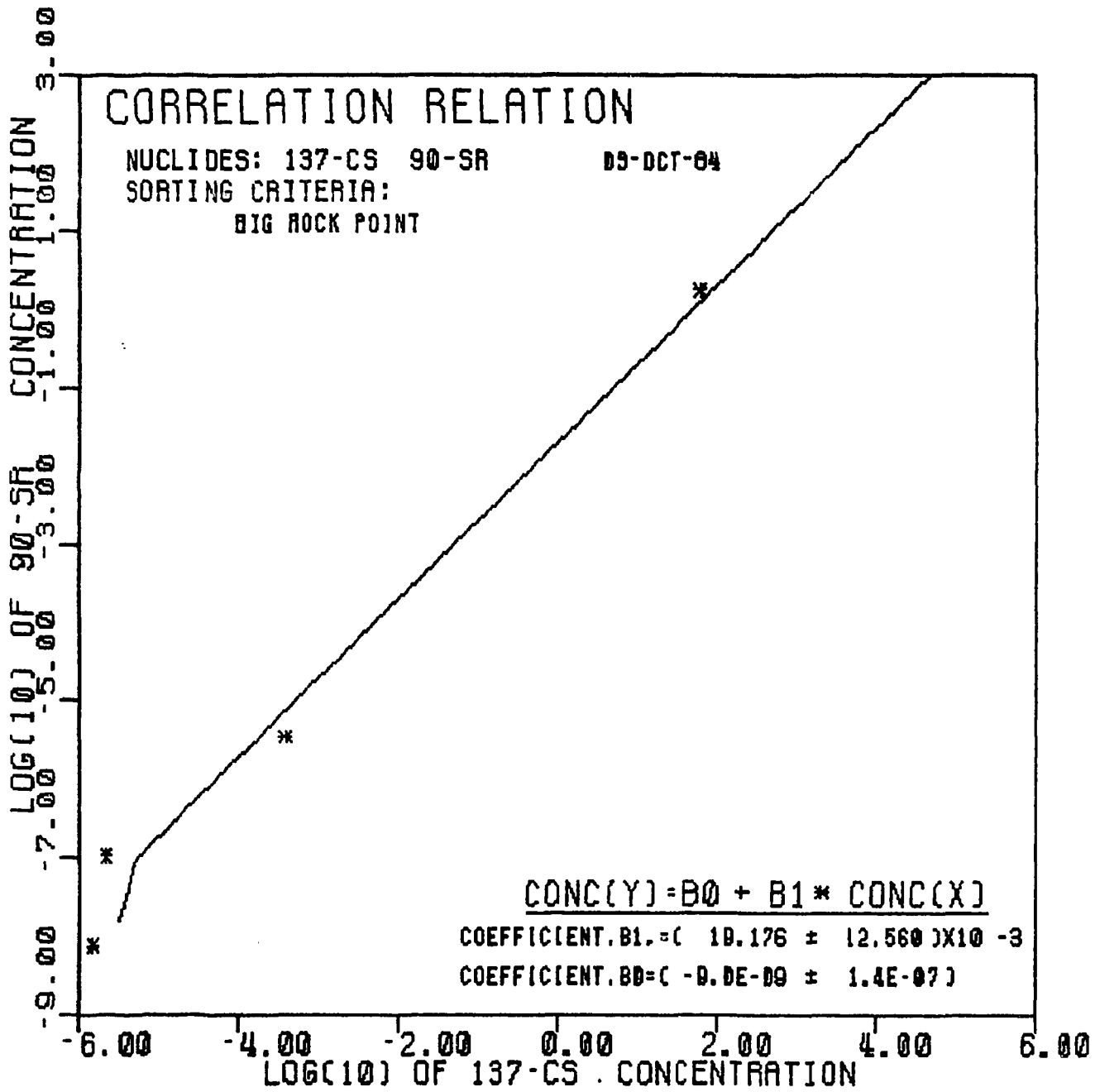
Confidence Level for this Correlation is: 89. %

137-CB 90-SR 1

BIG ROCK POINT

0. 15100E-05 0. 80000E-07 0. 76000E-08 0. 31000E-08  
0. 40000E-03 0. 20000E-04 0. 35300E-05 0. 19000E-06  
0. 23000E-05 0. 40000E-06 0. 11000E-06 0. 66000E-07  
0. 63000E+02 0. 31500E+01 0. 18000E+01 0. 90000E-01

T016  
T037  
T017  
T038





# CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 90-SR

Test made on 03-OCT-84

Sorting Criteria are :

MAINE YANKEE

Number of entries in the fit is 12

Zero Offset Value, B0, is 1.11144E-06

Correlation Ratio, B1, is 3.80774E-03

Standard Deviation in B0 is 1.06880E-07

Standard Deviation in B1 is 1.75749E-03

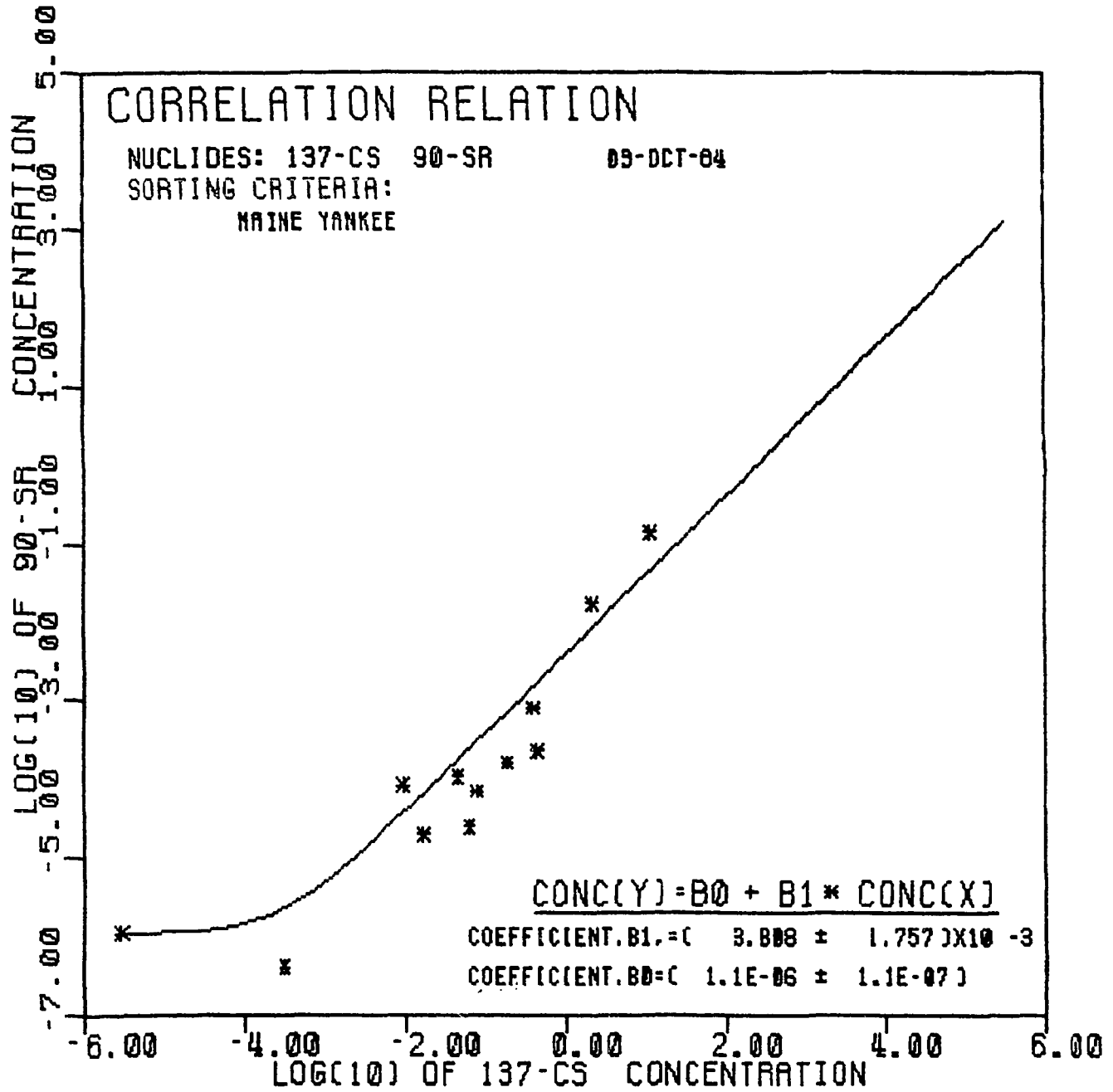
F-TEST Value is 5.683

Confidence Level for this Correlation is: 95. %

137-CS 90-BR 1

MAINE YANKEE

0.22000E+01	0.50000E+00	0.17500E-01	0.87500E-03	10007
0.99000E-02	0.49500E-03	0.83300E-04	0.41650E-05	10010
0.17200E-01	0.86000E-03	0.20200E-04	0.10100E-05	10138
0.46500E-01	0.23250E-02	0.10800E-03	0.35000E-04	10139
0.44400E+00	0.29000E-01	0.23200E-03	0.25000E-04	10140
0.31800E-03	0.15900E-04	0.41224E-06	0.67013E-07	10137
0.11726E+02	0.58630E+00	0.14089E+00	0.70447E-02	10387
0.30420E-05	0.15514E-05	0.11283E-05	0.55866E-07	10727
0.38996E+00	0.19498E-01	0.81810E-03	0.40905E-04	10729
0.80115E-01	0.40058E-02	0.69900E-04	0.34950E-05	10730
0.63724E-01	0.31862E-02	0.25400E-04	0.12700E-05	10731
0.18999E+00	0.94995E-02	0.16478E-03	0.49434E-04	10732



# CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 90-SR

Test made on 03-OCT-84

Sorting Criteria are :

FARLEY

Number of entries in the fit is 4

Zero Offset Value, B0, is  $-9.67775E-06$

Correlation Ratio, B1, is  $6.95590E-02$

Standard Deviation in B0 is  $7.83668E-05$

Standard Deviation in B1 is  $4.40726E-02$

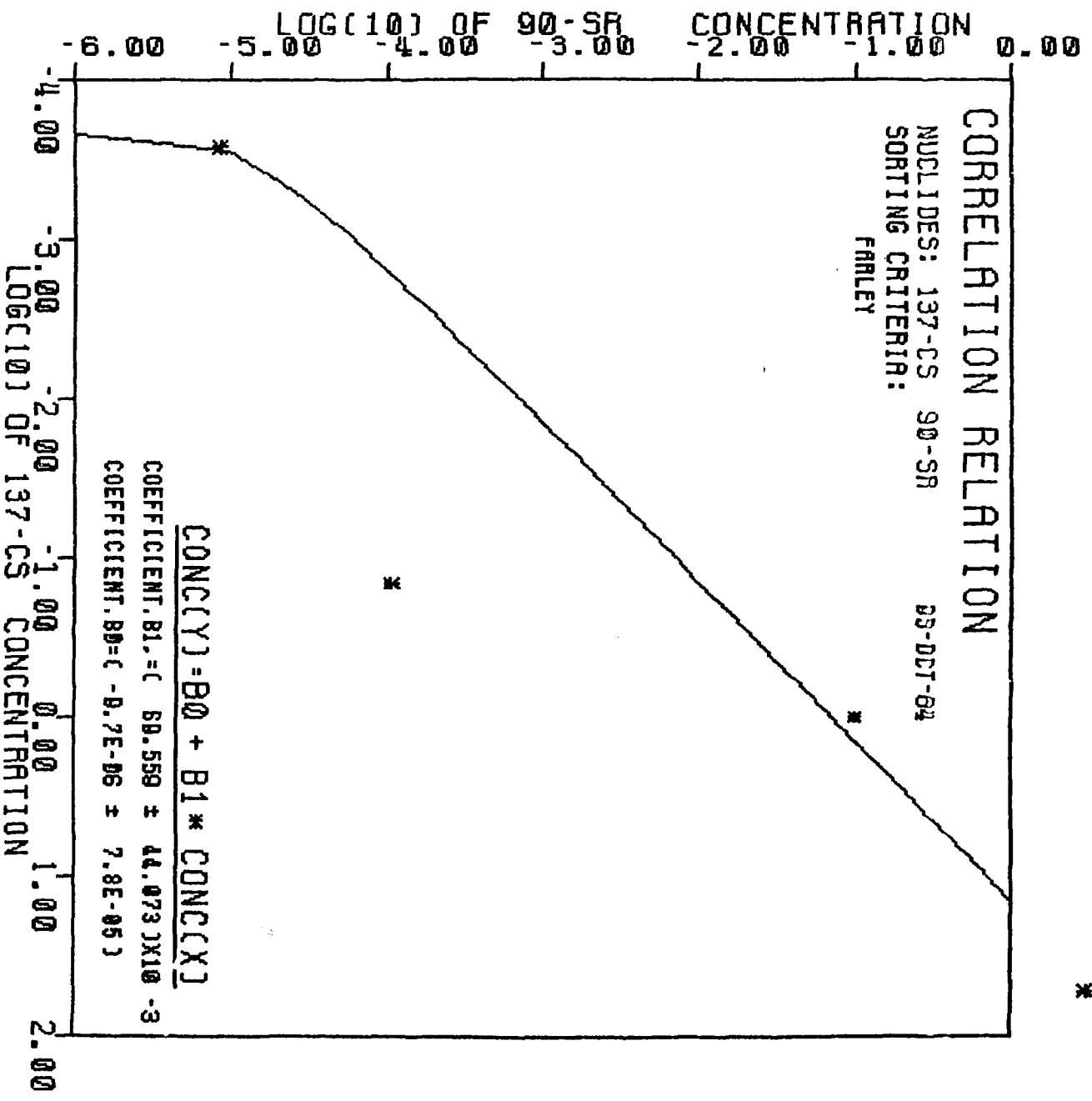
F-TEST Value is 9.803

Confidence Level for this Correlation is: 93. %

137-CS 90-SR 1

FARLEY

0. 26408E-03	0. 66020E-04	0. 85988E-05	0. 16338E-05	10230
0. 14232E+00	0. 99624E-02	0. 10709E-03	0. 12851E-04	10236
0. 10000E+01	0. 50000E-01	0. 99077E-01	0. 49537E-02	10237
0. 52100E+02	0. 26050E+01	0. 30250E+01	0. 15125E+00	10238



# CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 90-SR

Test made on 04-OCT-84

Sorting Criteria are :

GINNA

Number of entries in the fit is 30

Zero Offset Value, B0, is 5.30772E-07

Correlation Ratio, B1, is 4.28378E-03

Standard Deviation in B0 is 6.46492E-08

Standard Deviation in B1 is 3.27508E-03

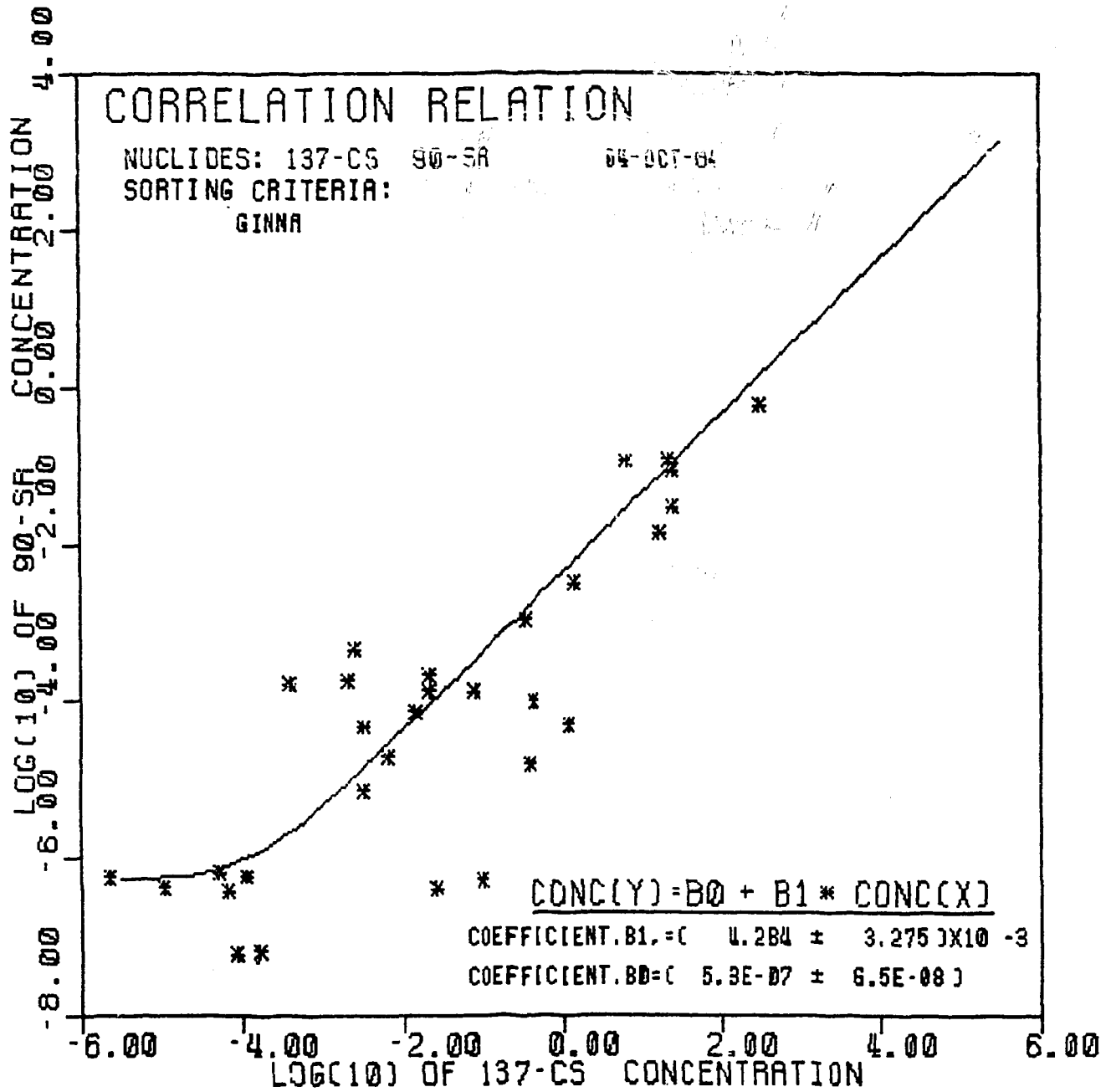
F-TEST Value is 2.688

Confidence Level for this Correlation is: 82. %

QINNA

0. 51000E-04	0. 30000E-05	0. 66000E-06	0. 38000E-06	T074
0. 65000E-04	0. 32500E-05	0. 39000E-06	0. 39000E-07	6724
0. 23000E-05	0. 30000E-06	0. 57900E-06	0. 35000E-07	6725
0. 11400E-03	0. 60000E-05	0. 60000E-06	0. 36000E-07	6729
0. 86600E-04	0. 43300E-05	0. 62000E-07	0. 93000E-08	6730
0. 15800E-03	0. 80000E-05	0. 68700E-07	0. 96200E-08	7385
0. 10700E-04	0. 53500E-06	0. 42900E-06	0. 34000E-07	7386
0. 32400E+03	0. 16200E+02	0. 59000E+00	0. 29500E-01	8470
0. 21000E-01	0. 10500E-02	0. 13700E-03	0. 68500E-05	8472
0. 76000E-01	0. 40000E-02	0. 13400E-03	0. 67000E-05	8473
0. 12200E+01	0. 61000E-01	0. 51200E-04	0. 25600E-05	7148
0. 34000E+00	0. 20000E-01	0. 10900E-02	0. 55000E-04	T077
0. 39600E-03	0. 18000E-03	0. 16800E-03	0. 77300E-04	7402
0. 14500E+01	0. 72500E-01	0. 31000E-02	0. 15500E-03	T035
0. 39600E+00	0. 20000E-01	0. 15900E-04	0. 10000E-05	7153
0. 31900E-02	0. 21000E-03	0. 48000E-04	0. 67000E-05	7147
0. 43400E+00	0. 22000E-01	0. 10100E-03	0. 50500E-05	7186
0. 17200E+02	0. 86000E+00	0. 13500E-01	0. 10000E-02	10108
0. 66300E+01	0. 33150E+00	0. 11400E+00	0. 10000E-01	10109
0. 21100E-01	0. 10550E-02	0. 21600E-03	0. 10800E-04	10110
0. 14200E-01	0. 71000E-03	0. 74900E-04	0. 39000E-05	10111
0. 32800E-02	0. 16400E-03	0. 74000E-05	0. 10000E-05	10112
0. 25400E-02	0. 69000E-03	0. 46000E-03	0. 50000E-04	10113
0. 25900E+02	0. 12950E+01	0. 29100E-01	0. 14550E-02	10114
0. 21100E-02	0. 11000E-03	0. 19000E-03	0. 30000E-04	10116
0. 24715E-01	0. 12358E-02	0. 41600E-06	0. 20800E-07	10285
0. 22850E+02	0. 11425E+01	0. 12000E+00	0. 60000E-02	10286
0. 25907E+02	0. 12953E+01	0. 85300E-01	0. 42650E-02	10287
0. 67528E-02	0. 33764E-03	0. 20400E-04	0. 10200E-05	10759
0. 98829E-01	0. 49414E-02	0. 53512E-06	0. 18729E-06	10760





## CORRELATION RESULTS

Nuclides Tested for Correlation are 137-CS and 90-SR

Test made on 04-OCT-84

Sorting Criteria are :

ZION

Number of entries in the fit is 44

Zero Offset Value, B0, is 5.30829E-08

Correlation Ratio, B1, is 1.19208E-02

Standard Deviation in B0 is 6.32913E-07

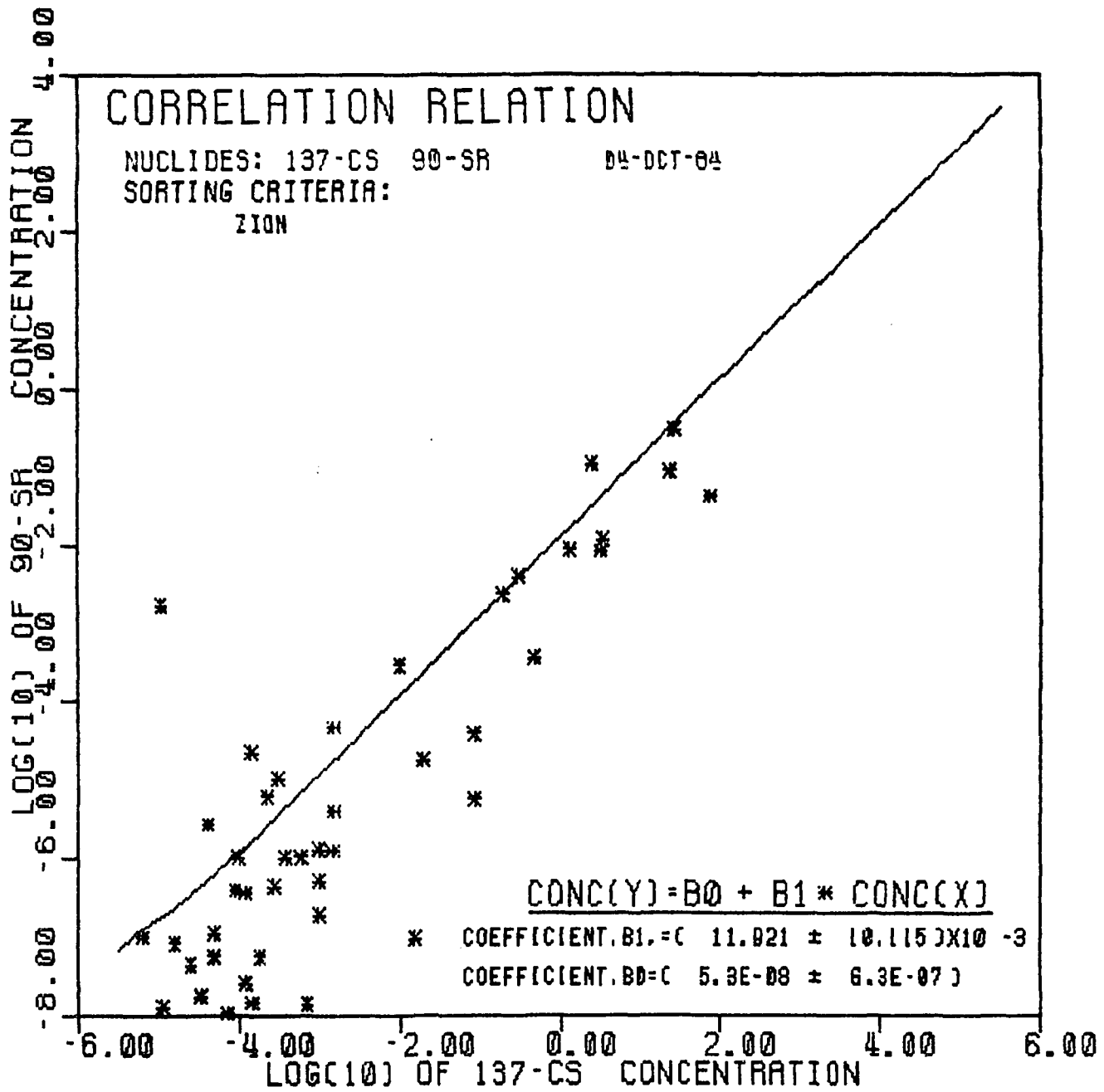
Standard Deviation in B1 is 1.01151E-02

F-TEST Value is 1.385

Confidence Level for this Correlation is: 66. %

## ZION

0. 10700E-04	0. 30000E-05	0. 17000E-02	0. 85000E-04	7131
0. 49000E-04	0. 24500E-05	0. 11200E-06	0. 12000E-07	9604
0. 15100E-01	0. 75500E-03	0. 96000E-07	0. 10000E-07	9605
0. 37200E-03	0. 18600E-04	0. 10400E-05	0. 11000E-06	9606
0. 47000E-04	0. 23500E-05	0. 58000E-07	0. 60000E-08	9608
0. 17900E-03	0. 89500E-05	0. 59000E-07	0. 60000E-08	9609
0. 10800E-04	0. 54000E-06	0. 13000E-07	0. 30000E-08	9610
0. 97000E-04	0. 48500E-05	0. 10600E-05	0. 60000E-07	9471
0. 14400E-03	0. 72000E-05	0. 15000E-07	0. 80000E-08	9472
0. 97000E-03	0. 48500E-04	0. 13300E-05	0. 70000E-07	9473
0. 62000E-05	0. 11000E-05	0. 10300E-06	0. 15000E-07	9474
0. 97000E-03	0. 49500E-04	0. 53000E-06	0. 30000E-07	9475
0. 58300E-03	0. 29150E-04	0. 11000E-05	0. 60000E-07	9476
0. 15600E-04	0. 22000E-05	0. 86000E-07	0. 12000E-07	9478
0. 86000E-01	0. 43000E-02	0. 40000E-04	0. 20000E-05	9479
0. 41000E-04	0. 90000E-05	0. 27800E-05	0. 14000E-06	9480
0. 12000E-03	0. 60000E-05	0. 38000E-06	0. 20000E-07	9481
0. 88000E-04	0. 44000E-05	0. 41000E-06	0. 20500E-07	9482
0. 14000E-03	0. 70000E-05	0. 22600E-04	0. 12000E-05	9483
0. 95000E-03	0. 47500E-04	0. 19200E-06	0. 10000E-07	9484
0. 86000E-01	0. 43000E-02	0. 59000E-05	0. 30000E-06	9485
0. 14300E-02	0. 71500E-04	0. 13000E-05	0. 60000E-06	9767
0. 33300E-04	0. 16550E-05	0. 18000E-07	0. 30000E-08	9768
0. 15000E-02	0. 30000E-03	0. 41000E-05	0. 20500E-06	9771
0. 24400E-04	0. 12200E-05	0. 45000E-07	0. 30000E-08	9772
0. 15000E-02	0. 20000E-03	0. 48000E-04	0. 24000E-05	9773
0. 72000E-04	0. 36000E-05	0. 11000E-07	0. 30000E-08	9774
0. 11800E-03	0. 59000E-05	0. 26000E-07	0. 80000E-08	9775
0. 26800E-03	0. 13400E-04	0. 45000E-06	0. 22500E-07	9778
0. 68000E-03	0. 34000E-04	0. 14000E-07	0. 30000E-08	9779
0. 20000E+00	0. 13000E-01	0. 23500E-02	0. 11750E-03	7149
0. 32800E+01	0. 16400E+00	0. 83700E-02	0. 62000E-03	7162
0. 30300E+00	0. 15150E-01	0. 39600E-02	0. 35000E-03	7163
0. 28500E+02	0. 14250E+01	0. 29500E+00	0. 14750E-01	7153
0. 19200E-01	0. 96000E-03	0. 18000E-04	0. 63000E-05	7154
0. 21993E-03	0. 10997E-04	0. 63193E-05	0. 31597E-06	10557
0. 30578E-03	0. 42809E-04	0. 10441E-04	0. 52205E-06	10563
0. 80000E+02	0. 40000E+01	0. 41800E-01	0. 20900E-02	10569
0. 25900E+02	0. 13000E+01	0. 87800E-01	0. 43900E-02	10570
0. 25424E+01	0. 45763E+00	0. 10826E+00	0. 54130E-02	10571
0. 34400E+01	0. 17200E+00	0. 11600E-01	0. 58000E-03	10572
0. 48300E+00	0. 24200E-01	0. 36000E-03	0. 36000E-04	10575
0. 13300E+01	0. 66500E-01	0. 88300E-02	0. 44200E-03	10576
0. 99800E-02	0. 69500E-03	0. 30000E-03	0. 36000E-04	10577



# CORRELATION RESULTS

Nuclides Tested for Correlation are 144-CE and 241-PU

Test made on 20-SEP-84

Sorting Criteria are :

BWR

Number of entries in the fit is 74

Zero Offset Value, B0, is  $-5.59567E-08$

Correlation Ratio, B1, is  $6.95585E-01$

Standard Deviation in B0 is  $1.24095E-07$

Standard Deviation in B1 is  $1.39965E-01$

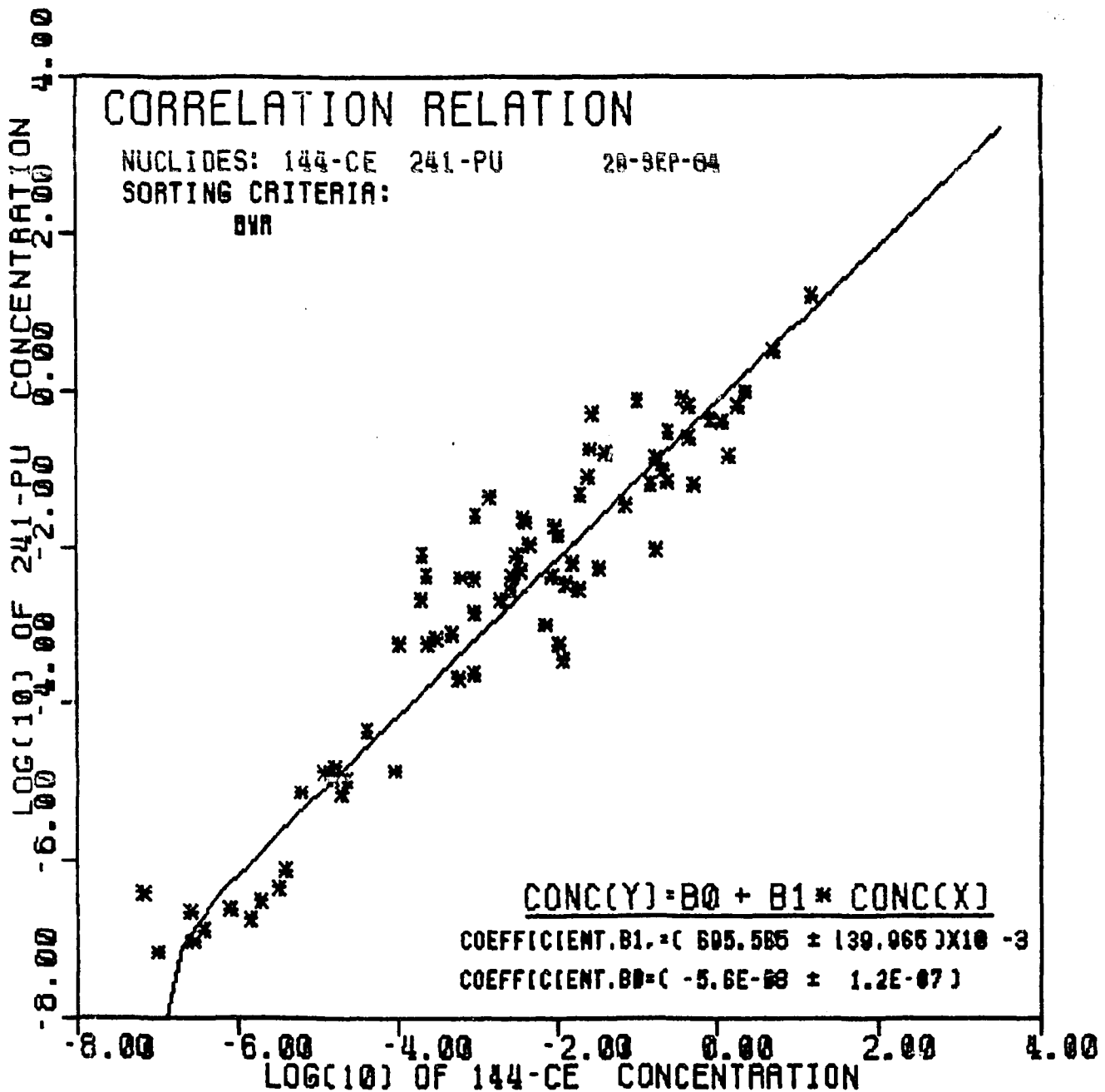
F-TEST Value is 37.254

Confidence Level for this Correlation is: 99. %

BWR

0. 91000E-04	0. 50000E-05	0. 14000E-04	0. 25000E-05	T050
0. 40000E-05	0. 20000E-06	0. 78000E-06	0. 47000E-06	4727
0. 33000E-05	0. 20000E-06	0. 47200E-06	0. 37800E-07	T085
0. 23000E-04	0. 20000E-05	0. 10700E-04	0. 80000E-06	6366
0. 41000E-04	0. 60000E-05	0. 46000E-04	0. 10000E-04	T036
0. 15000E-04	0. 20000E-05	0. 11600E-04	0. 26000E-05	T037
0. 12000E-04	0. 50000E-05	0. 13700E-04	0. 25000E-05	T017
0. 20000E-04	0. 10000E-05	0. 73100E-05	0. 16000E-05	T064
0. 37100E+00	0. 40000E-01	0. 81500E+00	0. 63000E-01	T065
0. 14800E+00	0. 22000E-01	0. 62900E-01	0. 24800E-02	T086
0. 83000E+00	0. 41500E-01	0. 44000E+00	0. 88000E-01	T048
0. 24500E+00	0. 12300E-01	0. 29700E+00	0. 18000E-01	T066
0. 89000E-02	0. 50000E-03	0. 19000E-01	0. 49000E-02	T004
0. 46000E+00	0. 80000E-01	0. 25000E+00	0. 10000E+00	T030
0. 17000E+00	0. 50000E-01	0. 13700E+00	0. 50000E-02	6378
0. 46000E+00	0. 16000E+00	0. 62600E+00	0. 31300E-01	6813
0. 17000E+00	0. 50000E-01	0. 95000E-02	0. 47500E-03	6812
0. 69000E-01	0. 20000E-01	0. 34800E-01	0. 17000E-02	7088
0. 52000E+01	0. 30000E+00	0. 32000E+01	0. 40000E+00	T087
0. 23000E+01	0. 10000E+01	0. 97600E+00	0. 14000E+00	T010
0. 18600E+01	0. 50000E+00	0. 64000E+00	0. 13000E+00	T046
0. 11900E+01	0. 54000E+00	0. 39500E+00	0. 70000E-01	7686
0. 14600E+01	0. 94000E+00	0. 14800E+00	0. 74000E-02	7813
0. 23500E+00	0. 10900E+00	0. 68700E-01	0. 90000E-02	7449
0. 10000E+00	0. 30000E-01	0. 74900E+00	0. 37450E-01	T038
0. 40000E-01	0. 20000E-01	0. 16000E+00	0. 10000E+00	T003
0. 12000E-01	0. 10000E-02	0. 38000E-03	0. 80000E-04	T007
0. 15000E-01	0. 50000E-02	0. 64500E-02	0. 44700E-03	T051
0. 25100E-01	0. 65000E-02	0. 18000E+00	0. 90000E-01	7452
0. 21000E+00	0. 74000E-01	0. 96000E-01	0. 30000E-01	6792
0. 15000E+02	0. 50000E+01	0. 16000E+02	0. 12000E+01	T025
0. 51000E+00	0. 25500E-01	0. 63000E-01	0. 20000E-01	T026
0. 94000E-03	0. 20000E-03	0. 25000E-01	0. 10000E-01	T022
0. 38000E-06	0. 12000E-06	0. 13000E-06	0. 50000E-07	9978
0. 12400E-01	0. 70000E-03	0. 35000E-02	0. 60000E-03	9980
0. 24000E-03	0. 12000E-03	0. 59000E-03	0. 70000E-04	9981
0. 44000E-02	0. 80000E-03	0. 11200E-01	0. 16000E-02	9982
0. 32000E-01	0. 70000E-02	0. 55000E-02	0. 12000E-02	10188
0. 61900E-05	0. 37140E-06	0. 76370E-05	0. 16269E-05	10195
0. 86500E-02	0. 43250E-03	0. 43000E-02	0. 47300E-03	10202
0. 47500E-03	0. 29925E-03	0. 78766E-03	0. 18116E-03	10261
0. 65900E-07	0. 20400E-07	0. 39904E-06	0. 10770E-06	10262
0. 81200E-06	0. 40600E-07	0. 24190E-06	0. 16933E-07	10266
0. 25000E-06	0. 40000E-07	0. 22671E-06	0. 20404E-07	10267
0. 99000E-07	0. 30690E-07	0. 69505E-07	0. 11816E-07	10268
0. 30000E-03	0. 18000E-03	0. 69936E-03	0. 48955E-04	10269
0. 61000E-03	0. 91500E-04	0. 41300E-02	0. 20700E-03	10270
0. 10100E-03	0. 16160E-04	0. 59200E-03	0. 53280E-04	10271
0. 20300E-03	0. 75110E-04	0. 79828E-02	0. 25545E-02	10318
0. 92400E-03	0. 45276E-03	0. 15104E-02	0. 22656E-03	10319
0. 68800E-02	0. 46096E-02	0. 10407E-02	0. 10407E-03	10320
0. 37000E-02	0. 22200E-03	0. 23987E-01	0. 11994E-02	10385
0. 19501E-05	0. 31201E-06	0. 31744E-06	0. 60068E-07	10412
0. 57400E-03	0. 13202E-03	0. 21680E-03	0. 78047E-04	10419
0. 24300E-01	0. 12150E-02	0. 79804E-01	0. 55863E-02	10478
0. 90000E-03	0. 18000E-03	0. 41194E-02	0. 37074E-03	10479
0. 19400E-03	0. 69840E-04	0. 21764E-02	0. 23940E-03	10496
0. 27600E-02	0. 96600E-03	0. 42640E-02	0. 46904E-03	10497
0. 23100E-03	0. 13398E-03	0. 42067E-02	0. 37860E-03	10498
0. 18000E-01	0. 43200E-02	0. 30125E-02	0. 57238E-03	10508
0. 26000E-02	0. 39000E-03	0. 28133E-02	0. 14066E-03	10509

0. 31000E-02	0. 86800E-03	0. 79617E-02	0. 87579E-03	10536
0. 39500E-02	0. 19750E-03	0. 21023E-01	0. 14716E-02	10537
0. 14300E-05	0. 10010E-06	0. 18676E-06	0. 35485E-07	10579
0. 19000E-01	0. 95000E-03	0. 46300E-01	0. 23150E-02	10582
0. 20000E-02	0. 62000E-03	0. 21972E-02	0. 28564E-03	10454
0. 14300E-02	0. 20020E-03	0. 43718E-01	0. 21859E-02	10493
0. 91000E-03	0. 58240E-03	0. 24439E-03	0. 10264E-03	10541
0. 26667E-06	0. 64000E-07	0. 94483E-07	0. 35903E-07	10545
0. 10100E-01	0. 55550E-02	0. 57180E-03	0. 16582E-03	10550
0. 15906E-04	0. 97672E-05	0. 16274E-04	0. 31886E-05	10706
0. 34500E-02	0. 15870E-02	0. 51710E-02	0. 36197E-03	10709
0. 10000E-01	0. 50000E-02	0. 14200E-01	0. 58220E-02	10717
0. 27600E-01	0. 57960E-02	0. 51674E+00	0. 25837E-01	10698





## CORRELATION RESULTS

Nuclides Tested for Correlation are 144-CE and 242-CM

Test made on 21-SEP-84

Sorting Criteria are :

BWR

Number of entries in the fit is 134

Zero Offset Value, B0, is 1.12213E-09

Correlation Ratio, B1, is 3.67981E-02

Standard Deviation in B0 is 6.25757E-09

Standard Deviation in B1 is 5.40118E-03

F-TEST Value is 70.692

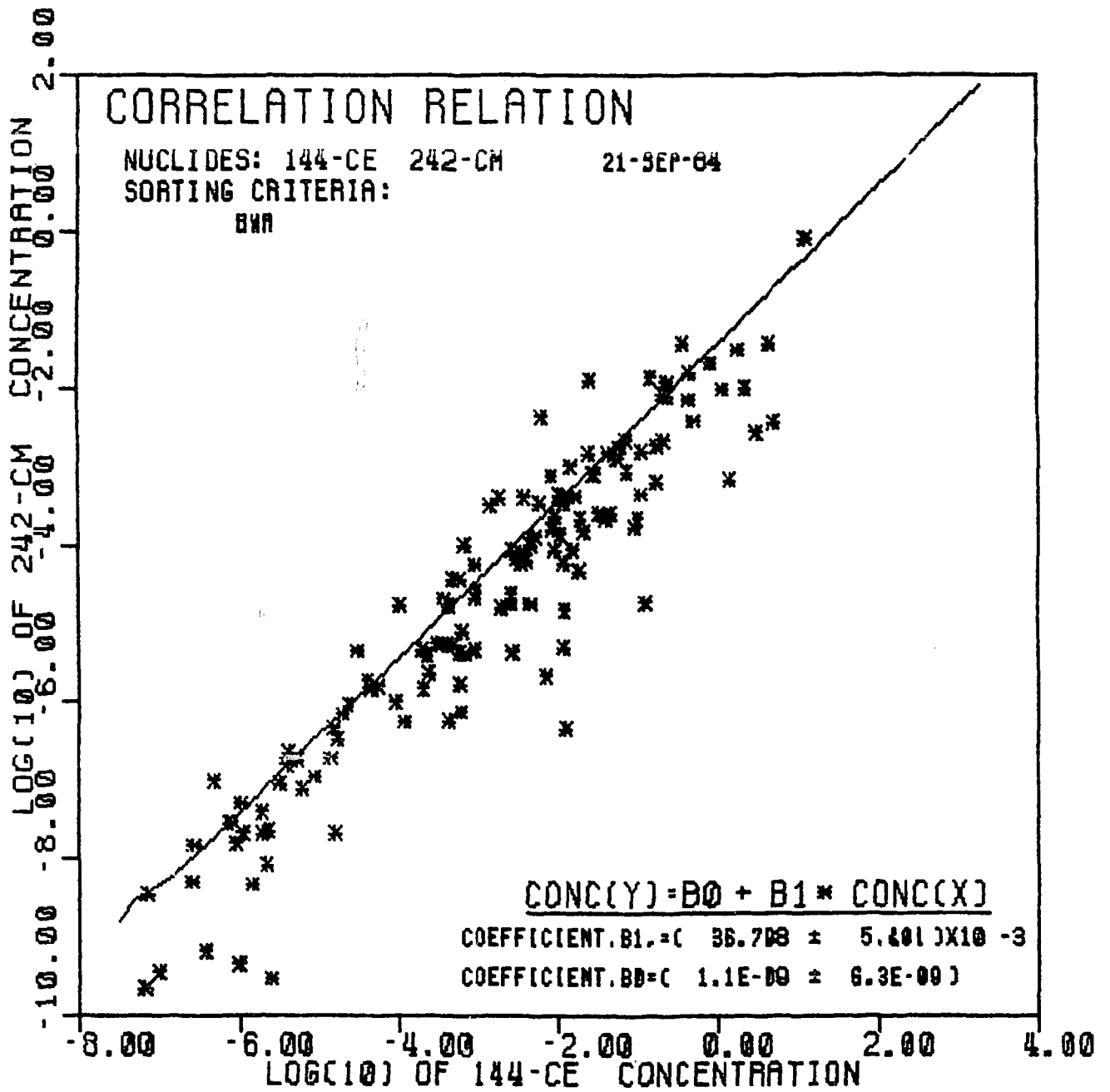
Confidence Level for this Correlation is: 99. %

BWR

0. 91000E-04	0. 50000E-05	0. 10000E-05	0. 20000E-06	T050
0. 54400E-05	0. 39000E-06	0. 18000E-06	0. 20000E-07	7049
0. 43000E-05	0. 15000E-05	0. 23000E-06	0. 20000E-07	T094
0. 14000E-04	0. 10000E-05	0. 19000E-06	0. 30000E-07	T002
0. 40000E-05	0. 20000E-06	0. 16000E-06	0. 20000E-07	4727
0. 54000E-04	0. 30000E-05	0. 16000E-05	0. 20000E-06	T031
0. 31000E-04	0. 38000E-05	0. 45000E-05	0. 50000E-06	6826
0. 20000E-05	0. 20000E-06	0. 21000E-07	0. 10500E-08	6806
0. 90900E-06	0. 30000E-06	0. 16000E-07	0. 20000E-08	7052
0. 33000E-05	0. 20000E-06	0. 92000E-07	0. 10000E-07	T085
0. 23000E-04	0. 20000E-05	0. 90000E-06	0. 30000E-06	6366
0. 41000E-04	0. 60000E-05	0. 19000E-05	0. 30000E-06	T036
0. 15000E-04	0. 20000E-05	0. 47000E-06	0. 60000E-07	T037
0. 70000E-07	0. 40000E-07	0. 36000E-08	0. 10000E-08	6814
0. 98000E-06	0. 17000E-06	0. 47000E-09	0. 30000E-09	6976
0. 24600E-05	0. 53000E-06	0. 23000E-07	0. 11500E-08	7592
0. 22000E-05	0. 20000E-06	0. 83000E-08	0. 30000E-08	6977
0. 25000E-05	0. 30000E-06	0. 30000E-09	0. 20000E-09	6975
0. 11200E-05	0. 15000E-06	0. 22000E-07	0. 20000E-08	T028
0. 17400E-04	0. 43000E-05	0. 33600E-06	0. 94000E-07	7442
0. 10100E-05	0. 17000E-06	0. 51900E-07	0. 26000E-08	7656
0. 72400E-06	0. 43100E-06	0. 28600E-07	0. 14300E-08	7890
0. 20000E-04	0. 10000E-05	0. 71000E-06	0. 50000E-07	T064
0. 48000E-06	0. 50000E-07	0. 10000E-06	0. 10000E-07	7169
0. 37100E+00	0. 40000E-01	0. 37000E-01	0. 40000E-02	T065
0. 14800E+00	0. 22000E-01	0. 14000E-01	0. 20000E-02	T086
0. 83000E+00	0. 41500E-01	0. 21000E-01	0. 20000E-02	T048
0. 24500E+00	0. 12300E-01	0. 80000E-02	0. 10000E-02	T066
0. 35000E-02	0. 30000E-03	0. 68000E-04	0. 11000E-04	T055
0. 34000E-02	0. 40000E-03	0. 82000E-04	0. 10000E-04	T056
0. 54400E-01	0. 33000E-01	0. 13000E-02	0. 10000E-03	6789
0. 12200E-01	0. 55000E-02	0. 40000E-03	0. 10000E-03	T117
0. 89000E-02	0. 50000E-03	0. 23000E-03	0. 40000E-04	T004
0. 26000E-02	0. 20000E-03	0. 18000E-04	0. 30000E-05	T006
0. 46000E+00	0. 80000E-01	0. 16000E-01	0. 20000E-02	T030
0. 17000E+00	0. 50000E-01	0. 62000E-03	0. 80000E-04	6378
0. 46000E+00	0. 16000E+00	0. 72000E-02	0. 60000E-03	6813
0. 43000E-01	0. 21000E-01	0. 15000E-02	0. 10000E-03	6379
0. 17000E+00	0. 50000E-01	0. 19000E-02	0. 10000E-03	6812
0. 69000E-01	0. 20000E-01	0. 22000E-02	0. 11000E-03	7088
0. 52000E+01	0. 30000E+00	0. 37000E-02	0. 25000E-02	T087
0. 23000E+01	0. 10000E+01	0. 10000E-01	0. 10000E-02	T010
0. 18600E+01	0. 50000E+00	0. 31000E-01	0. 40000E-02	T046
0. 11900E+01	0. 54000E+00	0. 97900E-02	0. 48950E-03	7686
0. 14600E+01	0. 94000E+00	0. 67300E-03	0. 11400E-03	7813
0. 23500E+00	0. 10900E+00	0. 12300E-01	0. 12000E-02	7449
0. 10000E+00	0. 30000E-01	0. 22000E-03	0. 30000E-04	T038
0. 31000E+01	0. 20000E+00	0. 28000E-02	0. 40000E-03	T009
0. 50000E-02	0. 50000E-03	0. 13000E-03	0. 20000E-04	T029
0. 40000E-01	0. 20000E-01	0. 21000E-03	0. 40000E-04	T003
0. 12000E-01	0. 10000E-02	0. 50000E-05	0. 10000E-05	T007
0. 15000E-01	0. 50000E-02	0. 89000E-04	0. 11000E-04	T051
0. 44000E-02	0. 40000E-03	0. 18000E-04	0. 20000E-05	T052
0. 12300E+02	0. 61500E+00	0. 81000E+00	0. 80000E-01	T112
0. 25100E-01	0. 65000E-02	0. 12600E-01	0. 80000E-03	7452
0. 21000E+00	0. 74000E-01	0. 86900E-02	0. 53000E-03	6792
0. 46000E-01	0. 30000E-02	0. 25000E-03	0. 40000E-04	T005
0. 12400E+00	0. 31000E-01	0. 18900E-04	0. 41000E-05	7014
0. 82900E-02	0. 55500E-02	0. 76900E-03	0. 64000E-04	7448
0. 60000E-03	0. 30000E-03	0. 76000E-06	0. 12000E-06	6815
0. 12200E-01	0. 61000E-03	0. 15000E-04	0. 20000E-05	T008

0. 51000E+00	0. 23500E-01	0. 39000E-02	0. 60000E-03	T026
0. 94000E-03	0. 20000E-03	0. 25000E-04	0. 40000E-05	T022
0. 11800E-01	0. 41000E-02	0. 57300E-04	0. 29000E-05	7809
0. 26300E-02	0. 11800E-02	0. 23600E-04	0. 28000E-05	7810
0. 47200E-03	0. 19100E-03	0. 36200E-04	0. 47000E-05	T700
0. 36000E-03	0. 17000E-03	0. 56000E-05	0. 28000E-06	8329
0. 45000E+01	0. 27000E+01	0. 37200E-01	0. 18600E-02	9684
0. 73000E-01	0. 32000E-01	0. 85000E-03	0. 42500E-04	9366
0. 62000E-02	0. 19000E-02	0. 44200E-02	0. 22100E-03	9635
0. 21000E-01	0. 10000E-01	0. 15200E-03	0. 80000E-05	9119
0. 93000E-02	0. 30000E-02	0. 86000E-04	0. 80000E-05	9799
0. 92000E-01	0. 18000E-01	0. 17000E-03	0. 10000E-04	9800
0. 18000E-02	0. 40000E-03	0. 40000E-03	0. 20000E-04	9802
0. 14000E-01	0. 30000E-02	0. 10300E-02	0. 51500E-04	9803
0. 11000E+00	0. 30000E-01	0. 45000E-03	0. 22500E-04	9804
0. 10000E-01	0. 30000E-02	0. 43000E-03	0. 21500E-04	9806
0. 67000E-03	0. 25000E-03	0. 98000E-04	0. 49000E-05	9808
0. 38000E-06	0. 12000E-06	0. 68000E-09	0. 29000E-09	9978
0. 12400E-01	0. 70000E-03	0. 46000E-06	0. 29000E-06	9980
0. 24000E-03	0. 12000E-03	0. 23000E-05	0. 60000E-06	9981
0. 44000E-02	0. 80000E-03	0. 10000E-03	0. 10000E-04	9982
0. 57200E-03	0. 28600E-04	0. 36300E-04	0. 18150E-05	10029
0. 43000E-03	0. 70000E-04	0. 17000E-04	0. 14000E-05	10030
0. 37000E-03	0. 70000E-04	0. 20800E-04	0. 10400E-05	10031
0. 12000E-03	0. 60000E-04	0. 56000E-06	0. 13000E-06	9997
0. 65000E-03	0. 90000E-04	0. 41200E-05	0. 35000E-06	9998
0. 59000E-03	0. 10000E-03	0. 43000E-05	0. 40000E-06	9999
0. 43300E-03	0. 21650E-04	0. 58000E-06	0. 17000E-06	10000
0. 58000E-02	0. 29000E-03	0. 34100E-03	0. 17050E-04	9969
0. 10700E-01	0. 53500E-03	0. 13900E-03	0. 69500E-05	10125
0. 10900E+00	0. 54500E-02	0. 15700E-02	0. 78500E-04	10126
0. 59300E-01	0. 29650E-02	0. 18100E-02	0. 90500E-04	10127
0. 20900E+00	0. 10450E-01	0. 21900E-02	0. 11000E-03	10128
0. 28400E-01	0. 14200E-02	0. 82000E-03	0. 41000E-04	10129
0. 15900E-01	0. 79500E-03	0. 41500E-03	0. 20750E-04	10130
0. 45800E-04	0. 22900E-05	0. 14500E-05	0. 72500E-07	10131
0. 93000E-05	0. 53000E-05	0. 11100E-06	0. 28000E-07	10162
0. 12000E-01	0. 10000E-02	0. 33900E-03	0. 17000E-04	10166
0. 32000E-01	0. 70000E-02	0. 25600E-03	0. 20000E-04	10188
0. 61900E-05	0. 37140E-06	0. 77342E-07	0. 38671E-08	10195
0. 86500E-02	0. 43250E-03	0. 15607E-03	0. 78036E-05	10202
0. 47500E-03	0. 29925E-03	0. 53883E-05	0. 12932E-05	10261
0. 65900E-07	0. 20400E-07	0. 22499E-09	0. 51749E-10	10262
0. 81200E-06	0. 40600E-07	0. 30041E-07	0. 15021E-08	10266
0. 25000E-06	0. 40000E-07	0. 51660E-08	0. 46494E-09	10267
0. 99000E-07	0. 30690E-07	0. 36357E-09	0. 72714E-10	10268
0. 30000E-03	0. 18000E-03	0. 55396E-05	0. 83094E-06	10269
0. 61000E-03	0. 91500E-04	0. 78000E-05	0. 78000E-06	10270
0. 10100E-03	0. 16160E-04	0. 17133E-04	0. 85666E-06	10271
0. 20300E-03	0. 75110E-04	0. 14880E-05	0. 23809E-06	10318
0. 92400E-03	0. 45276E-03	0. 21373E-04	0. 21373E-05	10319
0. 68800E-02	0. 46096E-02	0. 21578E-05	0. 23736E-06	10320
0. 37000E-02	0. 22200E-03	0. 41461E-03	0. 20731E-04	10385
0. 19501E-05	0. 31201E-06	0. 39828E-07	0. 27880E-08	10412
0. 57400E-03	0. 13202E-03	0. 16769E-05	0. 16769E-06	10419
0. 24300E-01	0. 12150E-02	0. 14708E-02	0. 73542E-04	10478
0. 90000E-03	0. 18000E-03	0. 56274E-04	0. 28137E-05	10479
0. 19400E-03	0. 69840E-04	0. 45576E-05	0. 36461E-06	10496
0. 27600E-02	0. 96600E-03	0. 43629E-05	0. 78532E-06	10497
0. 23100E-03	0. 13398E-03	0. 39523E-05	0. 55332E-06	10498
0. 18000E-01	0. 43200E-02	0. 46027E-04	0. 46027E-05	10508
0. 26000E-02	0. 39000E-03	0. 85902E-04	0. 42951E-05	10509
0. 31000E-02	0. 86800E-03	0. 68550E-04	0. 34275E-05	10536

0. 39500E-02	0. 19750E-03	0. 61818E-04	0. 30909E-05	10537
0. 14300E-05	0. 10010E-06	0. 47573E-08	0. 33301E-09	10579
0. 19000E-01	0. 95000E-03	0. 21687E-03	0. 10844E-04	10582
0. 20000E-02	0. 62000E-03	0. 15869E-04	0. 17456E-05	10454
0. 14300E-02	0. 20020E-03	0. 32190E-03	0. 16095E-04	10493
0. 91000E-03	0. 58240E-03	0. 47341E-05	0. 52075E-06	10541
0. 26667E-06	0. 64000E-07	0. 15169E-07	0. 75847E-09	10545
0. 15906E-04	0. 97672E-05	0. 21021E-07	0. 46100E-08	10706
0. 34500E-02	0. 15870E-02	0. 59747E-04	0. 15334E-04	10709
0. 27600E-01	0. 57760E-02	0. 80902E-03	0. 40451E-04	10698



## CORRELATION RESULTS

Nuclides Tested for Correlation are 144-CE and 238-PU

Test made on 20-SEP-84

Sorting Criteria are :

BWR

Number of entries in the fit is 144

Zero Offset Value, B0, is -3.23195E-09

Correlation Ratio, B1, is 3.09306E-02

Standard Deviation in B0 is 8.89984E-09

Standard Deviation in B1 is 7.58711E-03

F-TEST Value is 18.683

Confidence Level for this Correlation is: 99. %

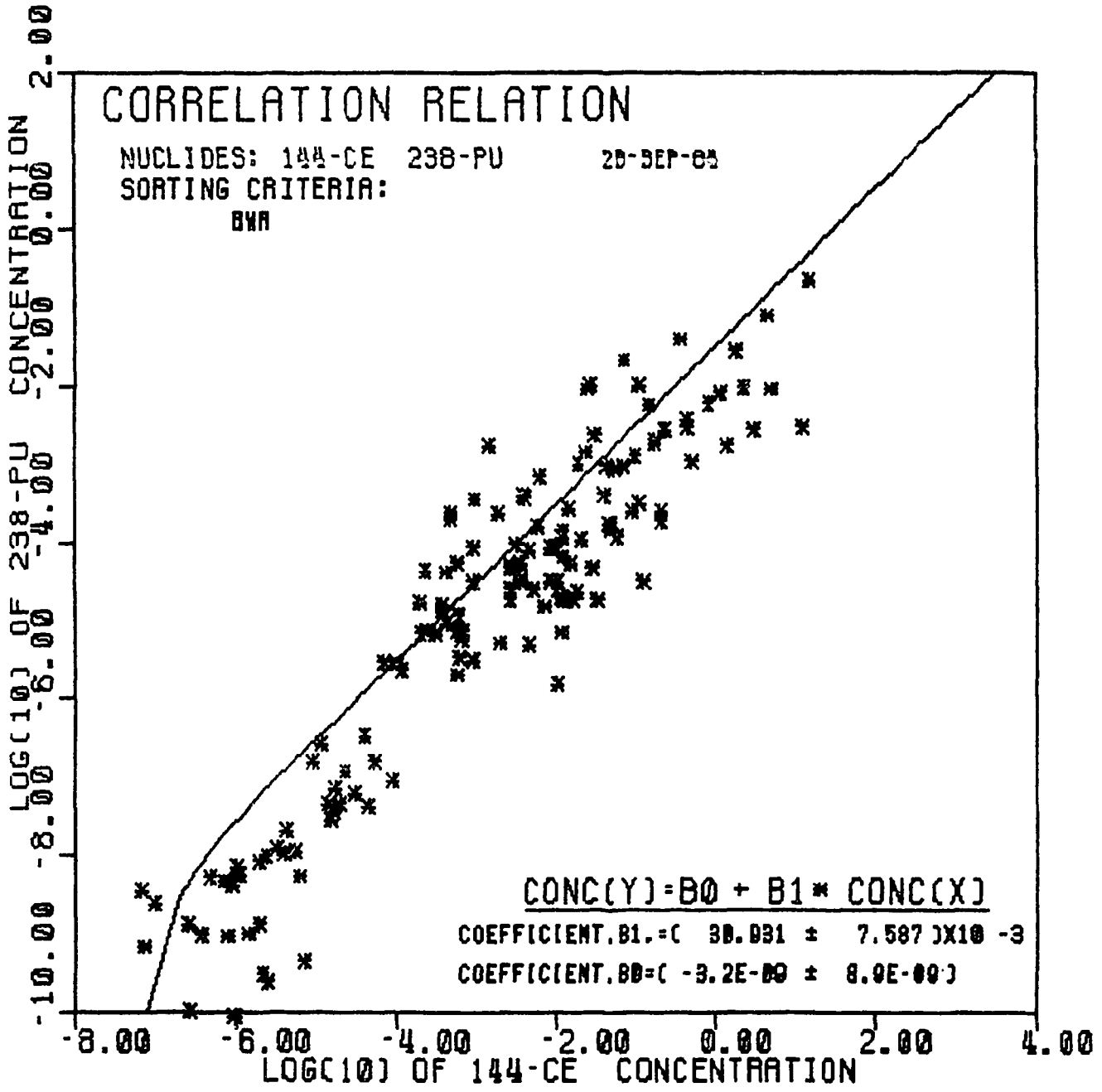
## BWR

0. 91000E-04	0. 50000E-05	0. 91000E-07	0. 10000E-07	T050
0. 54400E-05	0. 39000E-06	0. 11200E-07	0. 60000E-09	7048
0. 43000E-05	0. 15000E-05	0. 21000E-07	0. 20000E-08	T094
0. 14000E-04	0. 10000E-05	0. 45000E-07	0. 15000E-07	T002
0. 40000E-05	0. 20000E-06	0. 11000E-07	0. 20000E-08	4727
0. 54000E-04	0. 30000E-05	0. 16000E-06	0. 30000E-07	T031
0. 31000E-04	0. 38000E-05	0. 62000E-07	0. 10000E-07	6826
0. 20000E-05	0. 20000E-06	0. 85000E-08	0. 60000E-09	6806
0. 90900E-06	0. 30000E-06	0. 42000E-08	0. 80000E-09	7052
0. 33000E-05	0. 20000E-06	0. 12200E-07	0. 20000E-08	T085
0. 23000E-04	0. 20000E-05	0. 12000E-06	0. 10000E-07	6366
0. 41000E-04	0. 60000E-05	0. 33000E-06	0. 50000E-07	T036
0. 15000E-04	0. 20000E-05	0. 29000E-07	0. 40000E-08	T037
0. 70000E-07	0. 40000E-07	0. 70000E-09	0. 40000E-09	6814
0. 98000E-06	0. 17000E-06	0. 89000E-10	0. 15000E-10	6976
0. 24600E-05	0. 53000E-06	0. 99000E-08	0. 12000E-08	7392
0. 25000E-05	0. 30000E-06	0. 25000E-09	0. 10000E-09	6975
0. 71800E-05	0. 11000E-05	0. 46000E-09	0. 60000E-10	7393
0. 11200E-05	0. 15000E-06	0. 57000E-08	0. 10000E-08	T028
0. 12000E-04	0. 50000E-05	0. 27000E-06	0. 16000E-07	T017
0. 17400E-04	0. 43000E-05	0. 72700E-07	0. 87000E-08	7442
0. 10100E-05	0. 17000E-06	0. 72500E-08	0. 38000E-09	7656
0. 21600E-05	0. 11000E-05	0. 31300E-09	0. 56000E-10	7649
0. 72400E-06	0. 43100E-06	0. 47800E-08	0. 29000E-09	7890
0. 20000E-04	0. 10000E-05	0. 47000E-07	0. 70000E-08	T064
0. 48000E-06	0. 50000E-07	0. 55000E-08	0. 40000E-09	7169
0. 37100E+00	0. 40000E-01	0. 39000E-01	0. 50000E-02	T065
0. 14800E+00	0. 22000E-01	0. 57000E-02	0. 70000E-03	T086
0. 83000E+00	0. 41500E-01	0. 61000E-02	0. 90000E-03	T048
0. 24500E+00	0. 12300E-01	0. 27000E-02	0. 40000E-03	T066
0. 35000E-02	0. 30000E-03	0. 53000E-04	0. 60000E-05	T055
0. 34000E-02	0. 40000E-03	0. 35000E-04	0. 50000E-05	T056
0. 54400E-01	0. 33000E-01	0. 85000E-03	0. 10000E-03	6789
0. 12200E-01	0. 55000E-02	0. 14000E-03	0. 20000E-04	T117
0. 89000E-02	0. 50000E-03	0. 83000E-04	0. 41500E-05	T004
0. 26000E-02	0. 20000E-03	0. 19000E-04	0. 40000E-05	T006
0. 46000E+00	0. 80000E-01	0. 30000E-02	0. 40000E-03	T030
0. 17000E+00	0. 50000E-01	0. 21000E-02	0. 30000E-03	6378
0. 46000E+00	0. 16000E+00	0. 37000E-02	0. 30000E-03	6813
0. 43000E-01	0. 21000E-01	0. 95000E-03	0. 12000E-03	6379
0. 17000E+00	0. 50000E-01	0. 18000E-02	0. 20000E-03	6812
0. 69000E-01	0. 20000E-01	0. 96000E-03	0. 50000E-04	7088
0. 52000E+01	0. 30000E+00	0. 90000E-02	0. 12000E-02	T087
0. 23000E+01	0. 10000E+01	0. 95000E-02	0. 15000E-02	T010
0. 18600E+01	0. 50000E+00	0. 28000E-01	0. 40000E-02	T046
0. 11900E+01	0. 54000E+00	0. 82500E-02	0. 41250E-03	7686
0. 14600E+01	0. 94000E+00	0. 17400E-02	0. 10000E-03	7813
0. 23500E+00	0. 10900E+00	0. 26700E-02	0. 13350E-03	7449
0. 46900E-01	0. 28500E-01	0. 15400E-03	0. 13050E-04	7674
0. 49000E-01	0. 20000E-01	0. 18000E-03	0. 20000E-04	T011
0. 10000E+00	0. 30000E-01	0. 13000E-02	0. 20000E-03	T038
0. 31000E+01	0. 20000E+00	0. 28000E-02	0. 50000E-03	T009
0. 50000E-02	0. 50000E-03	0. 26000E-04	0. 20000E-05	T029
0. 40000E-01	0. 20000E-01	0. 41000E-03	0. 20500E-04	T003
0. 12000E-01	0. 10000E-02	0. 71000E-05	0. 10000E-05	T007
0. 15000E-01	0. 50000E-02	0. 54000E-04	0. 50000E-05	T051
0. 44000E-02	0. 40000E-03	0. 50900E-05	0. 60000E-06	T052
0. 12300E+02	0. 61500E+00	0. 30000E-02	0. 20000E-02	T112
0. 25100E-01	0. 65000E-02	0. 90900E-02	0. 45450E-03	7452
0. 21000E+00	0. 74000E-01	0. 19100E-03	0. 11000E-04	6792
0. 46000E-01	0. 30000E-02	0. 17000E-03	0. 30000E-04	T005

0. 12400E+00	0. 31000E-01	0. 32400E-04	0. 27000E-05	7014
0. 82900E-02	0. 55500E-02	0. 86100E-04	0. 43030E-05	7448
0. 70000E-04	0. 40000E-04	0. 30000E-05	0. 20000E-05	6819
0. 15000E+02	0. 50000E+01	0. 22000E+00	0. 20000E-01	T025
0. 31000E-01	0. 10000E-01	0. 24000E-02	0. 50000E-03	T023
0. 60000E-03	0. 30000E-03	0. 12000E-04	0. 30000E-05	6815
0. 49000E-01	0. 20000E-01	0. 15000E-03	0. 30000E-04	T012
0. 12200E-01	0. 61000E-03	0. 66000E-04	0. 10000E-04	T008
0. 51000E+00	0. 25500E-01	0. 11000E-02	0. 20000E-03	T026
0. 94000E-03	0. 20000E-03	0. 36000E-03	0. 10000E-03	T022
0. 11800E-01	0. 41000E-02	0. 11600E-03	0. 70000E-05	7809
0. 26300E-02	0. 11800E-02	0. 47600E-04	0. 43000E-05	7810
0. 47200E-03	0. 19100E-03	0. 23100E-03	0. 72000E-04	T700
0. 36000E-03	0. 17000E-03	0. 14000E-04	0. 10000E-05	8329
0. 45000E+01	0. 27000E+01	0. 78000E-01	0. 39000E-02	9684
0. 73000E-01	0. 32000E-01	0. 21000E-01	0. 20000E-02	9366
0. 62000E-02	0. 19000E-02	0. 71000E-03	0. 40000E-04	9635
0. 21000E-01	0. 10000E-01	0. 10600E-03	0. 53000E-05	9119
0. 93000E-02	0. 30000E-02	0. 33000E-04	0. 14000E-04	9799
0. 92000E-01	0. 18000E-01	0. 25000E-03	0. 20000E-04	9800
0. 18000E-02	0. 40000E-03	0. 23000E-03	0. 11500E-04	9802
0. 14000E-01	0. 30000E-02	0. 27000E-03	0. 13500E-04	9803
0. 11000E+00	0. 30000E-01	0. 10100E-01	0. 50500E-03	9804
0. 10000E-01	0. 30000E-02	0. 26000E-04	0. 13000E-05	9806
0. 67000E-03	0. 25000E-03	0. 56000E-05	0. 30000E-06	9808
0. 38000E-06	0. 12000E-06	0. 10000E-08	0. 20000E-09	9978
0. 12400E-01	0. 70000E-03	0. 19000E-04	0. 20000E-05	9980
0. 24000E-03	0. 12000E-03	0. 77000E-05	0. 38500E-06	9981
0. 44000E-02	0. 80000E-03	0. 78000E-04	0. 10000E-04	9982
0. 57200E-03	0. 28600E-04	0. 54700E-04	0. 27350E-05	10029
0. 43000E-03	0. 70000E-04	0. 41300E-04	0. 20650E-05	10030
0. 37000E-03	0. 70000E-04	0. 15700E-04	0. 80000E-06	10031
0. 12000E-03	0. 60000E-04	0. 23300E-05	0. 21000E-06	9997
0. 65000E-03	0. 90000E-04	0. 75500E-05	0. 70000E-06	9998
0. 59000E-03	0. 10000E-03	0. 75400E-05	0. 58000E-06	9999
0. 43300E-03	0. 21650E-04	0. 91900E-05	0. 86000E-06	10000
0. 58000E-02	0. 29000E-03	0. 15600E-03	0. 78000E-05	9969
0. 10700E-01	0. 53500E-03	0. 31300E-04	0. 22000E-05	10125
0. 10900E+00	0. 54500E-02	0. 31000E-03	0. 15500E-04	10126
0. 59300E-01	0. 29650E-02	0. 12000E-03	0. 63000E-05	10127
0. 20900E+00	0. 10450E-01	0. 25200E-03	0. 17000E-04	10128
0. 28400E-01	0. 14200E-02	0. 47300E-04	0. 29400E-05	10129
0. 15900E-01	0. 79500E-03	0. 18600E-04	0. 12600E-05	10130
0. 45800E-04	0. 22900E-05	0. 42100E-07	0. 21050E-08	10131
0. 93000E-05	0. 53000E-05	0. 15500E-06	0. 25000E-07	10162
0. 12000E-01	0. 10000E-02	0. 19800E-04	0. 10000E-05	10166
0. 32000E-01	0. 70000E-02	0. 19000E-04	0. 30000E-05	10188
0. 61900E-05	0. 37140E-06	0. 55341E-08	0. 49807E-09	10195
0. 86500E-02	0. 43250E-03	0. 30958E-04	0. 15479E-05	10202
0. 47500E-03	0. 29925E-03	0. 20522E-03	0. 10261E-04	10261
0. 65900E-07	0. 20400E-07	0. 35929E-08	0. 84149E-09	10262
0. 81200E-06	0. 40600E-07	0. 95211E-09	0. 27611E-09	10266
0. 25000E-06	0. 40000E-07	0. 13094E-08	0. 17022E-09	10267
0. 99000E-07	0. 30690E-07	0. 24614E-08	0. 17230E-09	10268
0. 30000E-03	0. 18000E-03	0. 68053E-05	0. 88469E-06	10269
0. 61000E-03	0. 91500E-04	0. 35000E-05	0. 38500E-06	10270
0. 10100E-03	0. 16160E-04	0. 28242E-05	0. 28242E-06	10271
0. 20300E-03	0. 75110E-04	0. 69938E-05	0. 13988E-05	10318
0. 92400E-03	0. 45276E-03	0. 32207E-04	0. 16104E-05	10319
0. 68800E-02	0. 46096E-02	0. 15379E-04	0. 76897E-06	10320
0. 37000E-02	0. 22200E-03	0. 39213E-03	0. 19607E-04	10385
0. 19501E-05	0. 31201E-06	0. 13618E-08	0. 13526E-09	10412
0. 57400E-03	0. 13202E-03	0. 20881E-05	0. 41763E-06	10419



0. 24300E-01	0. 12150E-02	0. 14414E-02	0. 72072E-04	10478
0. 90000E-03	0. 18000E-03	0. 88329E-04	0. 44164E-05	10479
0. 19400E-03	0. 69840E-04	0. 16699E-04	0. 83495E-06	10496
0. 27600E-02	0. 96600E-03	0. 50600E-04	0. 40480E-05	10497
0. 23100E-03	0. 13398E-03	0. 42173E-04	0. 21087E-05	10498
0. 18000E-01	0. 43200E-02	0. 23257E-04	0. 37211E-05	10508
0. 26000E-02	0. 39000E-03	0. 25805E-04	0. 20644E-05	10509
0. 31000E-02	0. 86800E-03	0. 95117E-04	0. 47559E-05	10536
0. 39500E-02	0. 19750E-03	0. 37759E-03	0. 18880E-04	10537
0. 14300E-05	0. 10010E-06	0. 10235E-08	0. 10235E-09	10579
0. 19000E-01	0. 95000E-03	0. 99702E-03	0. 49851E-04	10582
0. 20000E-02	0. 62000E-03	0. 51911E-05	0. 12459E-05	10454
0. 14300E-02	0. 20020E-03	0. 17072E-02	0. 85360E-04	10493
0. 91000E-03	0. 58240E-03	0. 31105E-05	0. 40436E-06	10541
0. 26667E-06	0. 64000E-07	0. 10512E-09	0. 25230E-10	10545
0. 10100E-01	0. 55550E-02	0. 15557E-05	0. 10268E-05	10550
0. 15906E-04	0. 97672E-05	0. 35304E-07	0. 68829E-08	10706
0. 34500E-02	0. 15870E-02	0. 32054E-04	0. 25643E-05	10709
0. 10000E-01	0. 50000E-02	0. 89020E-04	0. 19584E-04	10717
0. 27600E-01	0. 57960E-02	0. 10036E-01	0. 50181E-03	10698



## CORRELATION RESULTS

Nuclides Tested for Correlation are 144-CE and 239-PU

Test made on 21-SEP-84

Sorting Criteria are :

BWR

Number of entries in the fit is 145

Zero Offset Value, B0, is  $-1.88351E-09$

Correlation Ratio, B1, is  $1.70979E-02$

Standard Deviation in B0 is  $5.36376E-09$

Standard Deviation in B1 is  $4.45484E-03$

F-TEST Value is 16.304

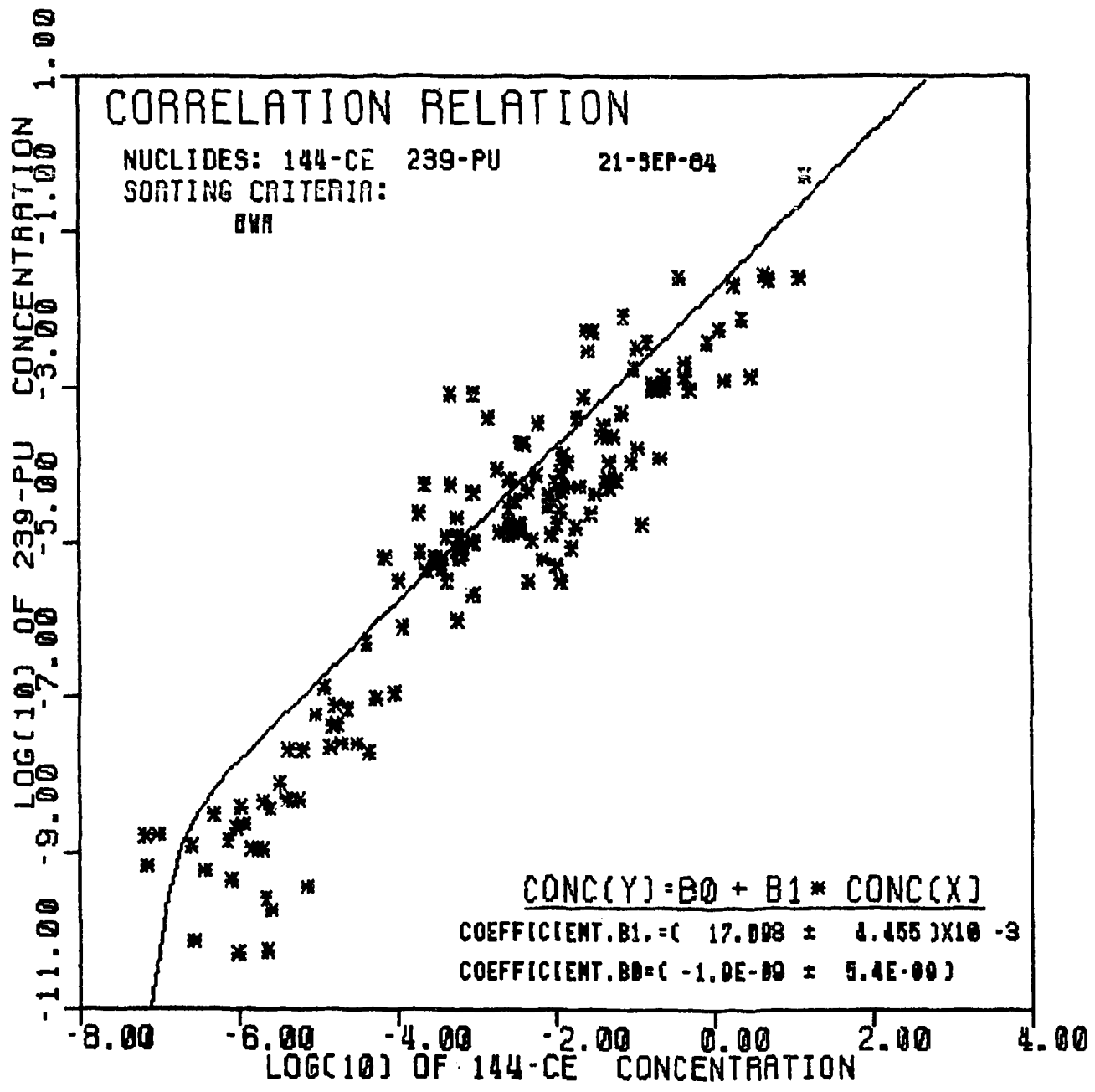
Confidence Level for this Correlation is: 99. %

## BWR

0. 91000E-04	0. 50000E-05	0. 12000E-06	0. 20000E-07	T050
0. 54400E-05	0. 39000E-06	0. 49000E-08	0. 30000E-09	7048
0. 43000E-05	0. 15000E-05	0. 22000E-07	0. 20000E-08	T094
0. 14000E-04	0. 10000E-05	0. 23000E-07	0. 70000E-08	T002
0. 40000E-05	0. 20000E-06	0. 50000E-08	0. 60000E-09	4727
0. 54000E-04	0. 30000E-05	0. 97000E-07	0. 10000E-07	T031
0. 31000E-04	0. 38000E-05	0. 26000E-07	0. 30000E-08	6826
0. 20000E-05	0. 20000E-06	0. 47000E-08	0. 40000E-09	6806
0. 90900E-06	0. 30000E-06	0. 21000E-08	0. 50000E-09	7052
0. 33000E-05	0. 20000E-06	0. 78000E-08	0. 10000E-08	T085
0. 23000E-04	0. 20000E-05	0. 75000E-07	0. 90000E-08	6366
0. 41000E-04	0. 60000E-05	0. 50000E-06	0. 70000E-07	T036
0. 15000E-04	0. 20000E-05	0. 44000E-07	0. 60000E-08	T037
0. 70000E-07	0. 40000E-07	0. 70000E-09	0. 20000E-09	6814
0. 98000E-06	0. 17000E-06	0. 52000E-10	0. 10000E-10	6976
0. 24600E-05	0. 53000E-06	0. 38000E-08	0. 30000E-09	7392
0. 22000E-05	0. 20000E-06	0. 56000E-10	0. 15000E-10	6977
0. 25000E-05	0. 30000E-06	0. 19000E-09	0. 10000E-09	6975
0. 71800E-05	0. 11000E-05	0. 38000E-09	0. 50000E-10	7393
0. 11200E-05	0. 15000E-06	0. 24000E-08	0. 60000E-09	T028
0. 12000E-04	0. 50000E-05	0. 13300E-06	0. 11000E-07	T017
0. 17400E-04	0. 43000E-05	0. 46500E-07	0. 59000E-08	7442
0. 10100E-05	0. 17000E-06	0. 39100E-08	0. 26000E-09	7656
0. 21600E-05	0. 11000E-05	0. 27400E-09	0. 53000E-10	7649
0. 72400E-06	0. 43100E-06	0. 14700E-08	0. 15000E-09	7890
0. 20000E-04	0. 10000E-05	0. 26000E-07	0. 40000E-08	T064
0. 48000E-06	0. 50000E-07	0. 32000E-08	0. 30000E-09	7169
0. 37100E+00	0. 40000E-01	0. 25000E-01	0. 30000E-02	T065
0. 14800E+00	0. 22000E-01	0. 38000E-02	0. 60000E-03	T086
0. 83000E+00	0. 41500E-01	0. 37000E-02	0. 50000E-03	T048
0. 24500E+00	0. 12300E-01	0. 10000E-02	0. 20000E-03	T066
0. 35000E-02	0. 30000E-03	0. 18000E-04	0. 40000E-05	T055
0. 34000E-02	0. 40000E-03	0. 15000E-04	0. 40000E-05	T056
0. 54400E-01	0. 33000E-01	0. 23000E-03	0. 20000E-04	6789
0. 12200E-01	0. 55000E-02	0. 11600E-03	0. 25000E-04	T117
0. 89000E-02	0. 50000E-03	0. 35000E-04	0. 15000E-04	T004
0. 26000E-02	0. 20000E-03	0. 13000E-04	0. 30000E-05	T006
0. 46000E+00	0. 80000E-01	0. 14000E-02	0. 20000E-03	T030
0. 17000E+00	0. 50000E-01	0. 11000E-02	0. 10000E-03	6378
0. 46000E+00	0. 16000E+00	0. 21000E-02	0. 20000E-03	6813
0. 43000E-01	0. 21000E-01	0. 33000E-03	0. 40000E-04	6379
0. 17000E+00	0. 50000E-01	0. 94000E-03	0. 90000E-04	6812
0. 69000E-01	0. 20000E-01	0. 47000E-03	0. 30000E-04	7088
0. 52000E+01	0. 30000E+00	0. 24000E-01	0. 30000E-02	T087
0. 23000E+01	0. 10000E+01	0. 75000E-02	0. 10000E-02	T010
0. 18600E+01	0. 50000E+00	0. 21000E-01	0. 30000E-02	T046
0. 11900E+01	0. 54000E+00	0. 53700E-02	0. 26850E-03	7686
0. 14600E+01	0. 94000E+00	0. 12400E-02	0. 70000E-03	7813
0. 23500E+00	0. 10900E+00	0. 13700E-02	0. 70000E-03	7449
0. 46900E-01	0. 28500E-01	0. 51400E-04	0. 55000E-05	7674
0. 49000E-01	0. 20000E-01	0. 11000E-03	0. 20000E-04	T011
0. 10000E+00	0. 30000E-01	0. 17000E-02	0. 20000E-03	T038
0. 31000E+01	0. 20000E+00	0. 14000E-02	0. 20000E-03	T009
0. 50000E-02	0. 50000E-03	0. 11000E-04	0. 40000E-05	T029
0. 40000E-01	0. 20000E-01	0. 24000E-03	0. 40000E-04	T003
0. 12000E-01	0. 10000E-02	0. 32000E-05	0. 10000E-05	T007
0. 15000E-01	0. 50000E-02	0. 53000E-04	0. 50000E-05	T051
0. 44000E-02	0. 40000E-03	0. 31000E-05	0. 40000E-06	T052
0. 12300E+02	0. 61500E+00	0. 26000E-01	0. 13000E-02	T112
0. 25100E-01	0. 65000E-02	0. 53200E-02	0. 27000E-03	7452
0. 21000E+00	0. 74000E-01	0. 93300E-03	0. 74000E-04	6792

0. 46000E-01	0. 30000E-02	0. 59000E-04	0. 29500E-05	T005
0. 12400E+00	0. 31000E-01	0. 17600E-04	0. 27000E-05	7014
0. 82900E-02	0. 55500E-02	0. 28700E-04	0. 15000E-05	7448
0. 70000E-04	0. 40000E-04	0. 64000E-05	0. 10000E-05	6819
0. 15000E+02	0. 50000E+01	0. 51000E+00	0. 50000E-01	T025
0. 31000E-01	0. 10000E-01	0. 50000E-02	0. 10000E-02	T023
0. 60000E-03	0. 30000E-03	0. 12000E-04	0. 30000E-05	6815
0. 49000E-01	0. 20000E-01	0. 70000E-04	0. 10000E-04	T012
0. 12200E-01	0. 61000E-03	0. 48000E-04	0. 10000E-04	T008
0. 51000E+00	0. 25500E-01	0. 96000E-03	0. 15000E-03	T026
0. 94000E-03	0. 20000E-03	0. 82000E-03	0. 20000E-03	T022
0. 11800E-01	0. 41000E-02	0. 81400E-04	0. 65000E-05	7809
0. 26300E-02	0. 11800E-02	0. 28000E-04	0. 32000E-05	7810
0. 47200E-03	0. 19100E-03	0. 79700E-03	0. 22300E-03	T700
0. 36000E-03	0. 17000E-03	0. 45000E-05	0. 80000E-06	8329
0. 45000E+01	0. 27000E+01	0. 27000E-01	0. 13500E-02	9684
0. 73000E-01	0. 32000E-01	0. 82000E-02	0. 60000E-03	9366
0. 62000E-02	0. 19000E-02	0. 35000E-03	0. 20000E-04	9635
0. 21000E-01	0. 10000E-01	0. 53000E-04	0. 30000E-05	9119
0. 93000E-02	0. 30000E-02	0. 13000E-04	0. 20000E-05	9799
0. 92000E-01	0. 18000E-01	0. 11000E-03	0. 10000E-04	9800
0. 18000E-02	0. 40000E-03	0. 87000E-04	0. 50000E-05	9802
0. 14000E-01	0. 30000E-02	0. 11200E-03	0. 60000E-05	9803
0. 11000E+00	0. 30000E-01	0. 31500E-02	0. 15750E-03	9804
0. 10000E-01	0. 30000E-02	0. 59000E-04	0. 29500E-05	9806
0. 67000E-03	0. 25000E-03	0. 90000E-05	0. 45000E-06	9808
0. 38000E-06	0. 12000E-06	0. 60000E-09	0. 12000E-09	9978
0. 12400E-01	0. 70000E-03	0. 13500E-03	0. 70000E-04	9980
0. 24000E-03	0. 12000E-03	0. 44000E-05	0. 22000E-06	9981
0. 44000E-02	0. 80000E-03	0. 48000E-04	0. 80000E-05	9982
0. 57200E-03	0. 28600E-04	0. 20900E-04	0. 11000E-05	10029
0. 43000E-03	0. 70000E-04	0. 12000E-04	0. 90000E-06	10030
0. 37000E-03	0. 70000E-04	0. 62600E-05	0. 46000E-06	10031
0. 12000E-03	0. 60000E-04	0. 82000E-06	0. 12000E-06	9997
0. 65000E-03	0. 90000E-04	0. 72600E-05	0. 68000E-06	9998
0. 59000E-03	0. 10000E-03	0. 80500E-05	0. 60000E-06	9999
0. 43300E-03	0. 21650E-04	0. 32000E-05	0. 50000E-06	10000
0. 58000E-02	0. 29000E-03	0. 73200E-04	0. 36600E-05	9969
0. 10700E-01	0. 53500E-03	0. 17700E-04	0. 16000E-05	10125
0. 10900E+00	0. 54500E-02	0. 16800E-03	0. 84000E-05	10126
0. 59300E-01	0. 29650E-02	0. 64600E-04	0. 41000E-05	10127
0. 20900E+00	0. 10450E-01	0. 12200E-03	0. 94000E-05	10128
0. 28400E-01	0. 14200E-02	0. 24100E-04	0. 19600E-05	10129
0. 15900E-01	0. 79500E-03	0. 88900E-05	0. 84200E-06	10130
0. 45800E-04	0. 22900E-05	0. 19300E-07	0. 11000E-08	10131
0. 93000E-05	0. 53000E-05	0. 60900E-07	0. 16000E-07	10162
0. 12000E-01	0. 10000E-02	0. 25300E-04	0. 13000E-05	10166
0. 32000E-01	0. 70000E-02	0. 42000E-04	0. 50000E-05	10188
0. 61900E-05	0. 37140E-06	0. 22000E-07	0. 11000E-08	10195
0. 86500E-02	0. 43250E-03	0. 41363E-04	0. 20682E-05	10202
0. 47500E-03	0. 29925E-03	0. 54782E-04	0. 32869E-05	10261
0. 65900E-07	0. 20400E-07	0. 17261E-08	0. 57806E-09	10262
0. 81200E-06	0. 40600E-07	0. 44691E-09	0. 18770E-09	10266
0. 25000E-06	0. 40000E-07	0. 12327E-08	0. 17258E-09	10267
0. 99000E-07	0. 30690E-07	0. 17746E-08	0. 15971E-09	10268
0. 30000E-03	0. 18000E-03	0. 65632E-05	0. 85322E-06	10269
0. 61000E-03	0. 91500E-04	0. 61900E-05	0. 49500E-06	10270
0. 10100E-03	0. 16160E-04	0. 32683E-05	0. 29414E-06	10271
0. 20300E-03	0. 75110E-04	0. 73237E-05	0. 14647E-05	10318
0. 92400E-03	0. 45276E-03	0. 10370E-04	0. 62219E-06	10319
0. 68800E-02	0. 46096E-02	0. 61312E-05	0. 36787E-06	10320
0. 37000E-02	0. 22200E-03	0. 19517E-03	0. 97585E-05	10385
0. 19501E-05	0. 31201E-06	0. 11413E-08	0. 12501E-09	10412

0. 57400E-03	0. 13202E-03	0. 10333E-05	0. 29966E-06	10419
0. 24300E-01	0. 12150E-02	0. 73966E-03	0. 36983E-04	10478
0. 90000E-03	0. 18000E-03	0. 44333E-04	0. 22167E-05	10479
0. 19400E-03	0. 69840E-04	0. 23492E-04	0. 11746E-05	10496
0. 27600E-02	0. 96600E-03	0. 62438E-04	0. 43706E-05	10497
0. 23100E-03	0. 13398E-03	0. 56352E-04	0. 28176E-05	10498
0. 18000E-01	0. 43200E-02	0. 15702E-04	0. 29834E-05	10508
0. 26000E-02	0. 39000E-03	0. 17522E-04	0. 17522E-05	10509
0. 31000E-02	0. 86800E-03	0. 34871E-04	0. 20923E-05	10536
0. 39500E-02	0. 19750E-03	0. 18316E-03	0. 91582E-05	10537
0. 14300E-05	0. 10010E-06	0. 11577E-08	0. 10419E-09	10579
0. 19000E-01	0. 95000E-03	0. 40627E-03	0. 20314E-04	10582
0. 20000E-02	0. 62000E-03	0. 13737E-04	0. 20605E-05	10454
0. 14300E-02	0. 20020E-03	0. 40930E-03	0. 20465E-04	10493
0. 91000E-03	0. 58240E-03	0. 21146E-05	0. 33833E-06	10541
0. 26667E-06	0. 64000E-07	0. 75313E-10	0. 21088E-10	10545
0. 10100E-01	0. 55550E-02	0. 51855E-05	0. 12659E-05	10550
0. 15906E-04	0. 97672E-05	0. 81629E-07	0. 10572E-07	10706
0. 34500E-02	0. 15870E-02	0. 13909E-04	0. 18082E-05	10709
0. 10000E-01	0. 50000E-02	0. 39945E-04	0. 13182E-04	10717
0. 27600E-01	0. 57960E-02	0. 28887E-02	0. 14444E-03	10698



## CORRELATION RESULTS

Nuclides Tested for Correlation are 144-CE and 241-AM

Test made on 21-SEP-84

Sorting Criteria are :

BWR

Number of entries in the fit is 137

Zero Offset Value, B0, is  $-2.09531E-09$

Correlation Ratio, B1, is  $2.22803E-02$

Standard Deviation in B0 is  $8.51665E-09$

Standard Deviation in B1 is  $7.55987E-03$

F-TEST Value is 9.205

Confidence Level for this Correlation is: 99. %

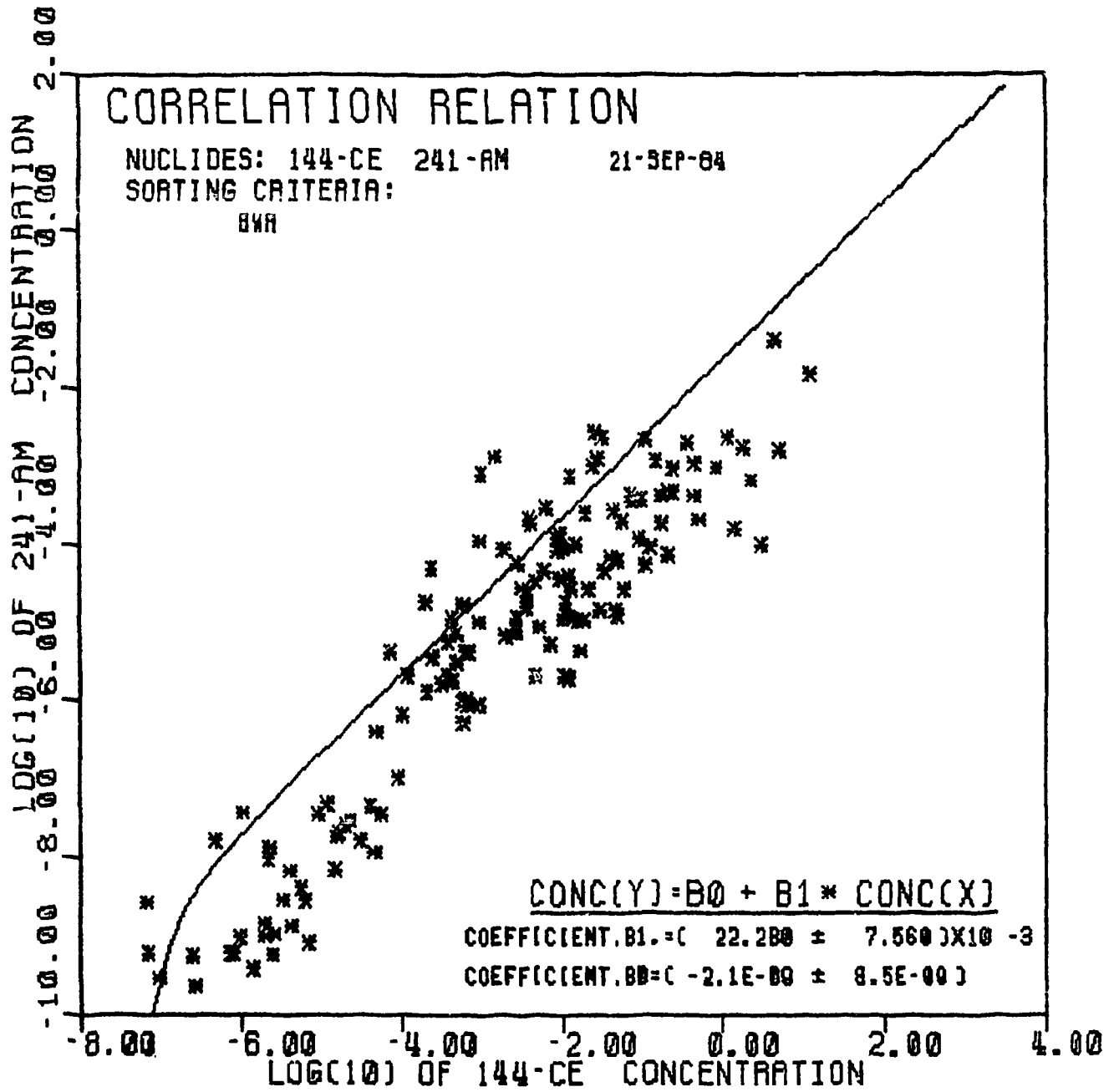


## BWR

0. 91000E-04	0. 50000E-05	0. 11000E-06	0. 30000E-07	T050
0. 54400E-05	0. 39000E-06	0. 43000E-08	0. 60000E-09	7048
0. 43000E-05	0. 15000E-05	0. 14000E-08	0. 20000E-09	T094
0. 14000E-04	0. 10000E-05	0. 71000E-08	0. 20000E-08	T002
0. 40000E-05	0. 20000E-06	0. 70000E-08	0. 11000E-08	4727
0. 54000E-04	0. 30000E-05	0. 36000E-07	0. 60000E-08	T031
0. 31000E-04	0. 38000E-05	0. 17000E-07	0. 30000E-08	6826
0. 20000E-05	0. 20000E-06	0. 15000E-08	0. 20000E-09	6806
0. 33000E-05	0. 20000E-06	0. 30000E-08	0. 50000E-09	T085
0. 23000E-04	0. 20000E-05	0. 30000E-07	0. 20000E-07	6366
0. 41000E-04	0. 60000E-05	0. 46000E-07	0. 60000E-08	T036
0. 15000E-04	0. 20000E-05	0. 19000E-07	0. 60000E-08	T037
0. 70000E-07	0. 40000E-07	0. 61000E-09	0. 10000E-09	6814
0. 98000E-06	0. 17000E-06	0. 10000E-08	0. 40000E-09	6976
0. 24600E-05	0. 53000E-06	0. 60000E-09	0. 60000E-10	7392
0. 22000E-05	0. 20000E-06	0. 14000E-07	0. 30000E-08	6977
0. 25000E-05	0. 30000E-06	0. 11000E-08	0. 30000E-09	6975
0. 71800E-05	0. 11000E-05	0. 87000E-09	0. 40000E-09	7393
0. 12000E-04	0. 50000E-05	0. 51000E-07	0. 51000E-08	T017
0. 10100E-05	0. 17000E-06	0. 38200E-07	0. 19100E-08	7656
0. 21600E-05	0. 11000E-05	0. 99400E-08	0. 14900E-08	7649
0. 72400E-06	0. 43100E-06	0. 63500E-09	0. 44000E-10	7890
0. 20000E-04	0. 10000E-05	0. 27000E-07	0. 30000E-08	T064
0. 48000E-06	0. 50000E-07	0. 17400E-07	0. 90000E-08	7169
0. 37100E+00	0. 40000E-01	0. 20000E-02	0. 20000E-03	T065
0. 14800E+00	0. 22000E-01	0. 12000E-02	0. 20000E-03	T086
0. 83000E+00	0. 41500E-01	0. 97000E-03	0. 15000E-03	T048
0. 24500E+00	0. 12300E-01	0. 47000E-03	0. 70000E-04	T066
0. 35000E-02	0. 30000E-03	0. 16000E-04	0. 40000E-05	T055
0. 34000E-02	0. 40000E-03	0. 23000E-04	0. 30000E-05	T056
0. 54400E-01	0. 33000E-01	0. 20000E-03	0. 20000E-04	6789
0. 12200E-01	0. 55000E-02	0. 74000E-03	0. 15000E-03	T117
0. 89000E-02	0. 50000E-03	0. 38000E-04	0. 13000E-04	T004
0. 26000E-02	0. 20000E-03	0. 85000E-05	0. 30000E-05	T006
0. 46000E+00	0. 80000E-01	0. 42000E-03	0. 10000E-03	T030
0. 17000E+00	0. 50000E-01	0. 19000E-03	0. 20000E-04	6378
0. 46000E+00	0. 16000E+00	0. 11000E-02	0. 10000E-03	6813
0. 43000E-01	0. 21000E-01	0. 28000E-03	0. 40000E-04	6379
0. 17000E+00	0. 50000E-01	0. 42000E-03	0. 30000E-04	6812
0. 69000E-01	0. 20000E-01	0. 43000E-03	0. 21500E-04	7088
0. 52000E+01	0. 30000E+00	0. 15600E-02	0. 25000E-03	T087
0. 23000E+01	0. 10000E+01	0. 66000E-03	0. 10000E-03	T010
0. 18600E+01	0. 50000E+00	0. 17000E-02	0. 30000E-03	T046
0. 11900E+01	0. 54000E+00	0. 23900E-02	0. 11950E-03	7686
0. 14600E+01	0. 94000E+00	0. 15900E-03	0. 28000E-04	7813
0. 23500E+00	0. 10900E+00	0. 95500E-03	0. 12000E-03	7449
0. 46900E-01	0. 28500E-01	0. 13000E-04	0. 40000E-05	7674
0. 49000E-01	0. 20000E-01	0. 62000E-04	0. 80000E-05	T011
0. 10000E+00	0. 30000E-01	0. 37000E-03	0. 40000E-04	T038
0. 31000E+01	0. 20000E+00	0. 10000E-03	0. 20000E-04	T009
0. 50000E-02	0. 50000E-03	0. 90000E-05	0. 15000E-05	T029
0. 40000E-01	0. 20000E-01	0. 71000E-04	0. 20000E-04	T003
0. 12000E-01	0. 10000E-02	0. 20000E-05	0. 10000E-05	T007
0. 15000E-01	0. 50000E-02	0. 11000E-04	0. 30000E-05	T051
0. 44000E-02	0. 40000E-03	0. 21000E-05	0. 30000E-06	T052
0. 12300E+02	0. 61500E+00	0. 15000E-01	0. 50000E-02	T112
0. 25100E-01	0. 65000E-02	0. 27800E-02	0. 18000E-03	7452
0. 21000E+00	0. 74000E-01	0. 47700E-03	0. 32000E-04	6792
0. 46000E-01	0. 30000E-02	0. 15000E-04	0. 30000E-05	T005
0. 12400E+00	0. 31000E-01	0. 95900E-04	0. 54000E-05	7014
0. 82900E-02	0. 55500E-02	0. 11800E-03	0. 15000E-04	7448

0. 70000E-04	0. 40000E-04	0. 42000E-05	0. 20000E-05	6819
0. 31000E-01	0. 10000E-01	0. 23000E-02	0. 10000E-02	T023
0. 60000E-03	0. 30000E-03	0. 44000E-05	0. 40000E-06	6815
0. 51000E+00	0. 25500E-01	0. 21000E-03	0. 30000E-04	T026
0. 94000E-03	0. 20000E-03	0. 79000E-03	0. 90000E-04	T022
0. 11800E-01	0. 41000E-02	0. 39300E-04	0. 20000E-05	7809
0. 26300E-02	0. 11800E-02	0. 11600E-04	0. 90000E-06	7810
0. 47200E-03	0. 19100E-03	0. 71800E-05	0. 12200E-05	T700
0. 36000E-03	0. 17000E-03	0. 22000E-05	0. 40000E-06	8329
0. 45000E+01	0. 27000E+01	0. 40000E-01	0. 20000E-02	9684
0. 73000E-01	0. 32000E-01	0. 36000E-03	0. 20000E-04	9366
0. 62000E-02	0. 19000E-02	0. 29000E-03	0. 20000E-04	9635
0. 21000E-01	0. 10000E-01	0. 28000E-04	0. 30000E-05	9119
0. 93000E-02	0. 30000E-02	0. 14000E-03	0. 10000E-04	9799
0. 92000E-01	0. 18000E-01	0. 12000E-03	0. 10000E-04	9800
0. 18000E-02	0. 40000E-03	0. 88000E-04	0. 70000E-05	9802
0. 14000E-01	0. 30000E-02	0. 10000E-03	0. 70000E-05	9803
0. 11000E+00	0. 30000E-01	0. 21300E-02	0. 10650E-03	9804
0. 10000E-01	0. 30000E-02	0. 11200E-04	0. 56000E-06	9806
0. 67000E-03	0. 25000E-03	0. 44000E-05	0. 10000E-05	9808
0. 12400E-01	0. 70000E-03	0. 27000E-04	0. 20000E-05	9980
0. 24000E-03	0. 12000E-03	0. 38000E-05	0. 10000E-05	9981
0. 44000E-02	0. 80000E-03	0. 35000E-04	0. 70000E-05	9982
0. 57200E-03	0. 28600E-04	0. 18000E-04	0. 90000E-06	10029
0. 43000E-03	0. 70000E-04	0. 11500E-04	0. 10000E-05	10030
0. 37000E-03	0. 70000E-04	0. 59600E-05	0. 42000E-06	10031
0. 12000E-03	0. 60000E-04	0. 22000E-05	0. 20000E-06	9997
0. 65000E-03	0. 90000E-04	0. 93000E-06	0. 17000E-06	9998
0. 59000E-03	0. 10000E-03	0. 97000E-06	0. 20000E-06	9999
0. 43300E-03	0. 21650E-04	0. 18000E-05	0. 30000E-06	10000
0. 48000E-04	0. 26000E-04	0. 41000E-06	0. 11000E-06	10001
0. 58000E-02	0. 29000E-03	0. 45500E-04	0. 22750E-05	9969
0. 10700E-01	0. 53500E-03	0. 18200E-04	0. 19000E-05	10125
0. 10900E+00	0. 54500E-02	0. 55800E-04	0. 37000E-05	10126
0. 59300E-01	0. 29650E-02	0. 27800E-04	0. 28000E-05	10127
0. 20900E+00	0. 10450E-01	0. 73000E-04	0. 78000E-05	10128
0. 28400E-01	0. 14200E-02	0. 14700E-04	0. 14600E-05	10129
0. 15900E-01	0. 79500E-03	0. 44700E-05	0. 57200E-06	10130
0. 45800E-04	0. 22900E-05	0. 12000E-07	0. 75000E-09	10131
0. 93000E-05	0. 53000E-05	0. 36000E-07	0. 15000E-07	10162
0. 12000E-01	0. 10000E-02	0. 12100E-04	0. 11000E-05	10166
0. 32000E-01	0. 70000E-02	0. 48000E-04	0. 80000E-05	10188
0. 61900E-05	0. 37140E-06	0. 29763E-08	0. 32739E-09	10195
0. 86500E-02	0. 43250E-03	0. 84667E-04	0. 42334E-05	10202
0. 47500E-03	0. 29925E-03	0. 31463E-05	0. 88096E-06	10261
0. 65900E-07	0. 20400E-07	0. 28027E-08	0. 10030E-08	10262
0. 81200E-06	0. 40600E-07	0. 63629E-09	0. 69991E-10	10266
0. 25000E-06	0. 40000E-07	0. 57013E-09	0. 85519E-10	10267
0. 99000E-07	0. 30690E-07	0. 30131E-09	0. 39171E-10	10268
0. 30000E-03	0. 18000E-03	0. 17602E-05	0. 28163E-06	10269
0. 61000E-03	0. 91500E-04	0. 11000E-05	0. 17600E-06	10270
0. 10100E-03	0. 16160E-04	0. 66512E-06	0. 99767E-07	10271
0. 20300E-03	0. 75110E-04	0. 13735E-05	0. 19229E-06	10318
0. 92400E-03	0. 45276E-03	0. 10438E-04	0. 12525E-05	10319
0. 68800E-02	0. 46096E-02	0. 53816E-05	0. 32290E-06	10320
0. 37000E-02	0. 22200E-03	0. 21308E-03	0. 10654E-04	10385
0. 19501E-05	0. 31201E-06	0. 10174E-08	0. 38749E-09	10412
0. 57400E-03	0. 13202E-03	0. 54179E-06	0. 92104E-07	10419
0. 24300E-01	0. 12150E-02	0. 10302E-02	0. 51510E-04	10478
0. 90000E-03	0. 18000E-03	0. 11258E-03	0. 56290E-05	10479
0. 19400E-03	0. 69840E-04	0. 18751E-04	0. 93755E-06	10496
0. 27600E-02	0. 96600E-03	0. 58572E-04	0. 29286E-05	10497
0. 23100E-03	0. 13398E-03	0. 49923E-04	0. 24962E-05	10498

0. 18000E-01	0. 43200E-02	0. 10708E-04	0. 18204E-05	10508
0. 26000E-02	0. 39000E-03	0. 80304E-05	0. 80304E-06	10509
0. 31000E-02	0. 86800E-03	0. 28190E-04	0. 16914E-05	10536
0. 39500E-02	0. 19750E-03	0. 18636E-03	0. 93180E-05	10537
0. 14300E-05	0. 10010E-06	0. 39252E-09	0. 74578E-10	10579
0. 19000E-01	0. 95000E-03	0. 25919E-03	0. 12960E-04	10582
0. 20000E-02	0. 62000E-03	0. 68671E-05	0. 10301E-05	10454
0. 14300E-02	0. 20020E-03	0. 13173E-02	0. 65865E-04	10493
0. 91000E-03	0. 58240E-03	0. 90339E-06	0. 18971E-06	10541
0. 26667E-06	0. 64000E-07	0. 23855E-09	0. 83490E-10	10545
0. 10100E-01	0. 55550E-02	0. 20923E-05	0. 98339E-06	10550
0. 15906E-04	0. 97672E-05	0. 21543E-07	0. 43321E-08	10706
0. 34500E-02	0. 15870E-02	0. 22707E-04	0. 72663E-05	10709
0. 10000E-01	0. 50000E-02	0. 90308E-04	0. 27093E-04	10717
0. 27600E-01	0. 57960E-02	0. 12870E-02	0. 64349E-04	10698



## CORRELATION RESULTS

Nuclides Tested for Correlation are 144-CE and 244-CM

Test made on 21-SEP-84

Sorting Criteria are :  
BHR

Number of entries in the fit is 139

Zero Offset Value, B0, is  $-3.55771E-09$

Correlation Ratio, B1, is  $2.23811E-02$

Standard Deviation in B0 is  $7.28182E-09$

Standard Deviation in B1 is  $6.01227E-03$

F-TEST Value is 15.299

Confidence Level for this Correlation is: 99. %

144-CE 244-CM 1

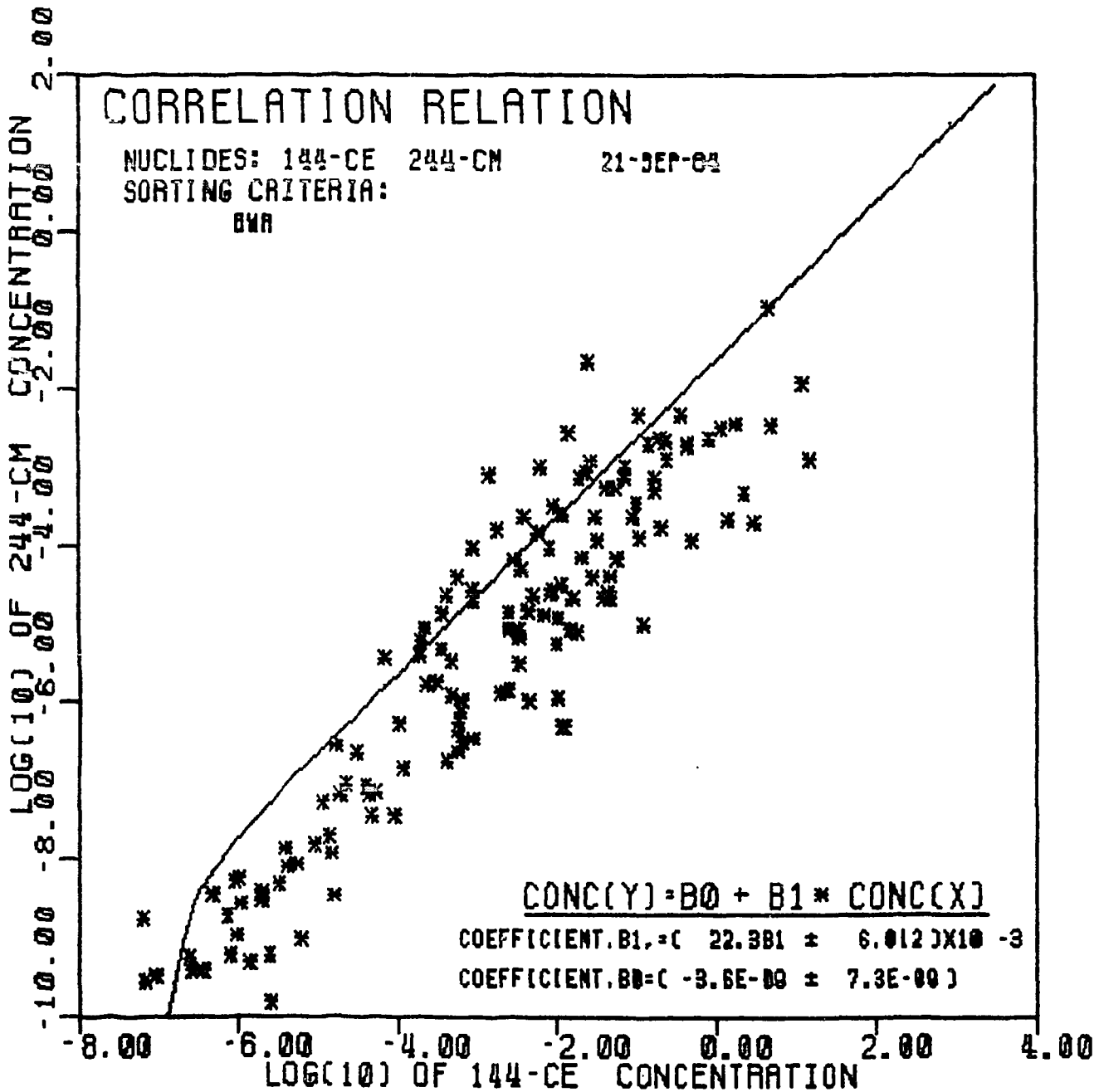
BWR

0. 91000E-04	0. 50000E-05	0. 37000E-07	0. 50000E-08	T050
0. 54400E-05	0. 39000E-06	0. 88000E-08	0. 10000E-08	7048
0. 43000E-05	0. 15000E-05	0. 81000E-08	0. 90000E-09	T094
0. 14000E-04	0. 10000E-05	0. 20000E-07	0. 40000E-08	T002
0. 40000E-05	0. 20000E-06	0. 14000E-07	0. 30000E-08	4727
0. 54000E-04	0. 30000E-05	0. 73000E-07	0. 11000E-07	T031
0. 31000E-04	0. 38000E-05	0. 23000E-06	0. 20000E-07	6826
0. 20000E-05	0. 20000E-06	0. 31000E-08	0. 50000E-09	6806
0. 90900E-06	0. 30000E-06	0. 55000E-08	0. 20000E-08	7052
0. 33000E-05	0. 20000E-06	0. 51000E-08	0. 60000E-09	T085
0. 23000E-04	0. 20000E-05	0. 90000E-07	0. 30000E-07	6366
0. 41000E-04	0. 60000E-05	0. 87000E-07	0. 10000E-07	T036
0. 15000E-04	0. 20000E-05	0. 12000E-07	0. 30000E-08	T037
0. 70000E-07	0. 40000E-07	0. 28000E-09	0. 10000E-09	6814
0. 98000E-06	0. 17000E-06	0. 11000E-08	0. 30000E-09	6976
0. 24600E-05	0. 53000E-06	0. 61000E-09	0. 60000E-10	7392
0. 25000E-05	0. 30000E-06	0. 16000E-09	0. 70000E-10	6975
0. 11200E-05	0. 15000E-06	0. 28000E-08	0. 60000E-09	T028
0. 12000E-04	0. 50000E-05	0. 55000E-07	0. 55000E-08	T017
0. 17400E-04	0. 43000E-05	0. 28100E-06	0. 98000E-07	7442
0. 10100E-05	0. 17000E-06	0. 58000E-08	0. 46000E-09	7656
0. 72400E-06	0. 43100E-06	0. 20100E-08	0. 10050E-09	7890
0. 20000E-04	0. 10000E-05	0. 66000E-07	0. 80000E-08	T064
0. 48000E-06	0. 50000E-07	0. 37000E-08	0. 40000E-09	7169
0. 37100E+00	0. 40000E-01	0. 47000E-02	0. 50000E-03	T065
0. 14800E+00	0. 22000E-01	0. 20000E-02	0. 30000E-03	T086
0. 83000E+00	0. 41500E-01	0. 23000E-02	0. 50000E-03	T048
0. 24500E+00	0. 12300E-01	0. 13000E-02	0. 30000E-03	T066
0. 35000E-02	0. 30000E-03	0. 85000E-05	0. 50000E-06	T055
0. 34000E-02	0. 40000E-03	0. 32000E-05	0. 40000E-06	T056
0. 54400E-01	0. 33000E-01	0. 55000E-03	0. 40000E-04	6789
0. 12200E-01	0. 55000E-02	0. 25000E-03	0. 10000E-03	T117
0. 89000E-02	0. 50000E-03	0. 28000E-04	0. 60000E-05	T004
0. 26000E-02	0. 20000E-03	0. 15000E-05	0. 70000E-06	T006
0. 46000E+00	0. 80000E-01	0. 20000E-02	0. 30000E-03	T030
0. 17000E+00	0. 50000E-01	0. 52000E-03	0. 60000E-04	6378
0. 46000E+00	0. 16000E+00	0. 19000E-02	0. 10000E-03	6813
0. 43000E-01	0. 21000E-01	0. 55000E-03	0. 70000E-04	6379
0. 17000E+00	0. 50000E-01	0. 74000E-03	0. 60000E-04	6812
0. 69000E-01	0. 20000E-01	0. 73000E-03	0. 36500E-04	7088
0. 52000E+01	0. 30000E+00	0. 35000E-02	0. 60000E-03	T087
0. 23000E+01	0. 10000E+01	0. 46000E-03	0. 12000E-03	T010
0. 18600E+01	0. 50000E+00	0. 36000E-02	0. 40000E-03	T046
0. 11900E+01	0. 54000E+00	0. 32300E-02	0. 16150E-03	7686
0. 14600E+01	0. 94000E+00	0. 21500E-03	0. 39000E-04	7813
0. 23500E+00	0. 10900E+00	0. 21700E-02	0. 25000E-03	7449
0. 46900E-01	0. 28500E-01	0. 41600E-04	0. 77000E-05	7674
0. 10000E+00	0. 30000E-01	0. 36000E-03	0. 40000E-04	T038
0. 31000E+01	0. 20000E+00	0. 20000E-03	0. 40000E-04	T009
0. 50000E-02	0. 50000E-03	0. 23000E-04	0. 50000E-05	T029
0. 40000E-01	0. 20000E-01	0. 22000E-04	0. 14000E-04	T003
0. 12000E-01	0. 10000E-02	0. 50000E-06	0. 30000E-07	T007
0. 15000E-01	0. 50000E-02	0. 88000E-05	0. 90000E-06	T051
0. 44000E-02	0. 40000E-03	0. 11000E-05	0. 20000E-06	T052
0. 12300E+02	0. 61500E+00	0. 12000E-01	0. 10000E-02	T112
0. 25100E-01	0. 65000E-02	0. 21800E-01	0. 14000E-02	7452
0. 21000E+00	0. 74000E-01	0. 24400E-02	0. 21000E-03	6792
0. 46000E-01	0. 30000E-02	0. 26000E-04	0. 50000E-05	T005
0. 12400E+00	0. 31000E-01	0. 10000E-04	0. 20000E-05	7014
0. 82900E-02	0. 55500E-02	0. 93300E-04	0. 13400E-04	7448
0. 70000E-04	0. 40000E-04	0. 36000E-05	0. 20000E-05	6819

0. 15000E+02	0. 50000E+01	0. 13000E-02	0. 40000E-03	T025
0. 31000E-01	0. 10000E-01	0. 23000E-03	0. 60000E-04	T023
0. 60000E-03	0. 30000E-03	0. 57000E-06	0. 10000E-06	6815
0. 49000E-01	0. 20000E-01	0. 22000E-04	0. 50000E-05	T012
0. 51000E+00	0. 25500E-01	0. 12000E-03	0. 20000E-04	T026
0. 94000E-03	0. 20000E-03	0. 20000E-04	0. 10000E-04	T022
0. 11800E-01	0. 41000E-02	0. 31000E-04	0. 15500E-05	7809
0. 26300E-02	0. 11800E-02	0. 14200E-04	0. 11000E-05	7810
0. 47200E-03	0. 19100E-03	0. 35100E-05	0. 84000E-06	T700
0. 36000E-03	0. 17000E-03	0. 48000E-05	0. 60000E-06	8329
0. 45000E+01	0. 27000E+01	0. 11200E+00	0. 56000E-02	9684
0. 73000E-01	0. 32000E-01	0. 99000E-03	0. 50000E-04	9366
0. 62000E-02	0. 19000E-02	0. 99000E-03	0. 50000E-04	9635
0. 21000E-01	0. 10000E-01	0. 71000E-04	0. 40000E-05	9119
0. 93000E-02	0. 30000E-02	0. 32000E-03	0. 16000E-04	9799
0. 92000E-01	0. 18000E-01	0. 23000E-03	0. 20000E-04	9800
0. 18000E-02	0. 40000E-03	0. 16000E-03	0. 10000E-04	9802
0. 14000E-01	0. 30000E-02	0. 28100E-02	0. 14050E-03	9803
0. 11000E+00	0. 30000E-01	0. 48000E-02	0. 24000E-03	9804
0. 10000E-01	0. 30000E-02	0. 56000E-05	0. 30000E-06	9806
0. 67000E-03	0. 25000E-03	0. 11000E-05	0. 40000E-06	9808
0. 38000E-06	0. 12000E-05	0. 40000E-09	0. 19000E-09	9978
0. 12400E-01	0. 70000E-03	0. 50000E-06	0. 28000E-06	9980
0. 24000E-03	0. 12000E-03	0. 17000E-05	0. 50000E-06	9981
0. 44000E-02	0. 80000E-03	0. 15000E-04	0. 40000E-05	9982
0. 57200E-03	0. 28600E-04	0. 40100E-04	0. 20050E-05	10029
0. 43000E-03	0. 70000E-04	0. 22900E-04	0. 14000E-05	10030
0. 37000E-03	0. 70000E-04	0. 13800E-04	0. 70000E-06	10031
0. 12000E-03	0. 60000E-04	0. 15000E-06	0. 60000E-07	9997
0. 65000E-03	0. 90000E-04	0. 32000E-06	0. 90000E-07	9998
0. 59000E-03	0. 10000E-03	0. 45000E-06	0. 12000E-06	9999
0. 43300E-03	0. 21650E-04	0. 18000E-06	0. 80000E-07	10000
0. 48000E-04	0. 26000E-04	0. 36000E-07	0. 25000E-07	10001
0. 58000E-02	0. 29000E-03	0. 14800E-03	0. 74000E-05	9969
0. 10700E-01	0. 53500E-03	0. 12200E-04	0. 15000E-05	10125
0. 10900E+00	0. 54500E-02	0. 12900E-03	0. 64500E-05	10126
0. 59300E-01	0. 29650E-02	0. 68900E-04	0. 48000E-05	10127
0. 20900E+00	0. 10450E-01	0. 17600E-03	0. 14000E-04	10128
0. 28400E-01	0. 14200E-02	0. 41200E-04	0. 25500E-05	10129
0. 15900E-01	0. 79500E-03	0. 21100E-04	0. 12800E-05	10130
0. 45800E-04	0. 22900E-05	0. 68900E-07	0. 34450E-08	10131
0. 93000E-05	0. 53000E-05	0. 15700E-07	0. 99000E-08	10162
0. 32000E-01	0. 70000E-02	0. 11800E-03	0. 12000E-04	10188
0. 61900E-05	0. 37140E-06	0. 10119E-08	0. 19227E-09	10195
0. 86500E-02	0. 43250E-03	0. 24259E-04	0. 12130E-05	10202
0. 47500E-03	0. 29925E-03	0. 12338E-05	0. 54289E-06	10261
0. 65900E-07	0. 20400E-07	0. 17679E-08	0. 79441E-09	10262
0. 81200E-06	0. 40600E-07	0. 62283E-09	0. 68511E-10	10266
0. 25000E-06	0. 40000E-07	0. 55988E-09	0. 83983E-10	10267
0. 99000E-07	0. 30690E-07	0. 34228E-09	0. 41074E-10	10268
0. 30000E-03	0. 18000E-03	0. 18534E-05	0. 27801E-06	10269
0. 61000E-03	0. 91500E-04	0. 79000E-06	0. 15000E-06	10270
0. 10100E-03	0. 16160E-04	0. 55357E-06	0. 94108E-07	10271
0. 20300E-03	0. 75110E-04	0. 60940E-05	0. 42658E-06	10318
0. 92400E-03	0. 45276E-03	0. 26860E-04	0. 21488E-05	10319
0. 68800E-02	0. 46096E-02	0. 13150E-04	0. 65751E-06	10320
0. 37000E-02	0. 22200E-03	0. 49512E-04	0. 24756E-05	10385
0. 19501E-05	0. 31201E-06	0. 39993E-08	0. 75987E-09	10412
0. 57400E-03	0. 13202E-03	0. 24172E-06	0. 62848E-07	10419
0. 24300E-01	0. 12150E-02	0. 87950E-03	0. 43975E-04	10478
0. 90000E-03	0. 18000E-03	0. 91997E-04	0. 45999E-05	10479
0. 19400E-03	0. 69840E-04	0. 39783E-05	0. 27848E-06	10496
0. 27600E-02	0. 96600E-03	0. 82409E-05	0. 90650E-06	10497

0. 23100E-03	0. 13398E-03	0. 89196E-05	0. 71357E-06	10498
0. 18000E-01	0. 43200E-02	0. 80506E-05	0. 15296E-05	10508
0. 26000E-02	0. 39000E-03	0. 89156E-05	0. 80241E-06	10509
0. 31000E-02	0. 86800E-03	0. 65776E-04	0. 32888E-05	10536
0. 39500E-02	0. 19750E-03	0. 22812E-03	0. 11406E-04	10537
0. 14300E-05	0. 10010E-06	0. 49860E-09	0. 79777E-10	10579
0. 19000E-01	0. 95000E-03	0. 72999E-03	0. 36500E-04	10582
0. 20000E-02	0. 62000E-03	0. 13818E-05	0. 46981E-06	10454
0. 14300E-02	0. 20020E-03	0. 81992E-03	0. 40996E-04	10493
0. 91000E-03	0. 58240E-03	0. 35490E-06	0. 12067E-06	10541
0. 26667E-06	0. 64000E-07	0. 40013E-09	0. 10804E-09	10545
0. 10100E-01	0. 55550E-02	0. 11624E-05	0. 73231E-06	10550
0. 15906E-04	0. 97672E-05	0. 34771E-08	0. 17778E-08	10706
0. 34500E-02	0. 15870E-02	0. 68731E-05	0. 39439E-05	10709
0. 27600E-01	0. 57960E-02	0. 12232E-02	0. 61161E-04	10698





## CORRELATION RESULTS

Nuclides Tested for Correlation are 144-CE and 241-PU

Test made on 21-SEP-84

Sorting Criteria are :  
PWR

Number of entries in the fit is 146

Zero Offset Value, B0, is 1.56866E-08

Correlation Ratio, B1, is 4.19076E-01

Standard Deviation in B0 is 1.49343E-07

Standard Deviation in B1 is 5.97867E-02

F-TEST Value is 73.794

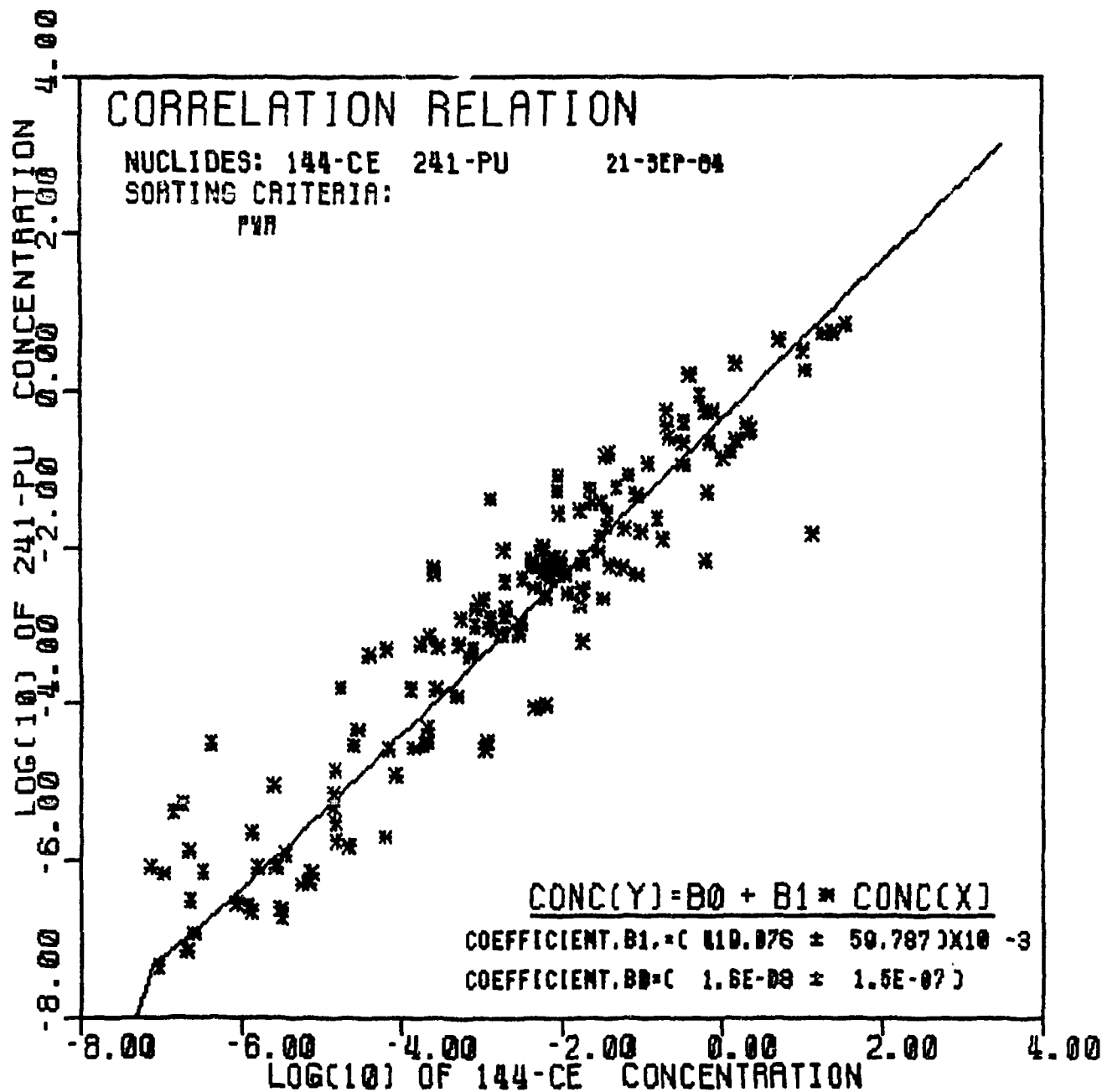
Confidence Level for this Correlation is: 99. %

PWR

0. 22300E-04	0. 53000E-05	0. 15900E-05	0. 27000E-06	7269
0. 61600E-04	0. 31000E-05	0. 20400E-05	0. 94000E-06	6955
0. 19000E-03	0. 40000E-04	0. 31100E-04	0. 23000E-05	6725
0. 21000E-03	0. 10500E-04	0. 32900E-04	0. 16450E-05	T089
0. 13900E-04	0. 70000E-05	0. 74900E-05	0. 37450E-06	6843
0. 40000E-01	0. 20000E-01	0. 16000E+00	0. 10000E+00	T039
0. 31600E-05	0. 99000E-06	0. 20000E-06	0. 11000E-06	7385
0. 14400E-04	0. 72000E-06	0. 50000E-05	0. 80000E-06	7386
0. 13400E-05	0. 52000E-06	0. 23000E-05	0. 39000E-06	7648
0. 41000E-02	0. 23000E-02	0. 60000E-02	0. 30000E-02	T074
0. 84600E-01	0. 41000E-01	0. 45000E-02	0. 17000E-02	7149
0. 93000E-03	0. 62000E-04	0. 19900E-02	0. 59000E-03	7183
0. 23500E-01	0. 11750E-02	0. 36700E-01	0. 18350E-02	10007
0. 25000E-06	0. 20000E-07	0. 12000E-06	0. 20000E-07	10008
0. 70000E-04	0. 10000E-04	0. 27000E-04	0. 30000E-05	10010
0. 50000E-03	0. 30000E-03	0. 60000E-03	0. 40000E-03	10011
0. 95000E-01	0. 12000E-01	0. 16000E-01	0. 60000E-02	T075
0. 64000E-02	0. 20000E-02	0. 68000E-02	0. 30000E-02	T080
0. 45400E-02	0. 62000E-03	0. 30400E-02	0. 46200E-03	7147
0. 19000E-02	0. 12000E-02	0. 38000E-02	0. 11000E-02	7186
0. 63000E+00	0. 26000E+00	0. 67000E-02	0. 22000E-02	T043
0. 10100E+01	0. 50500E-01	0. 14000E+00	0. 70000E-02	8003
0. 14100E+02	0. 70500E+00	0. 10000E-01	0. 10000E-01	T084
0. 12000E+02	0. 30000E+01	0. 18000E+01	0. 10000E+01	T044
0. 21000E+01	0. 90000E+00	0. 39000E+00	0. 20000E+00	T045
0. 33800E+00	0. 10000E+00	0. 41000E+00	0. 12000E+00	7694
0. 55000E+01	0. 70000E+00	0. 45000E+01	0. 50000E+00	9974
0. 60100E+00	0. 30050E-01	0. 55000E+00	0. 11000E+00	9973
0. 88700E-02	0. 44350E-03	0. 52300E-01	0. 26150E-02	10108
0. 22700E-03	0. 37000E-04	0. 73100E-03	0. 36550E-04	10110
0. 17400E-03	0. 26000E-04	0. 57800E-03	0. 28900E-04	10111
0. 28700E-03	0. 17000E-03	0. 54700E-03	0. 70000E-04	10113
0. 88200E-02	0. 44100E-03	0. 83000E-01	0. 41500E-02	10114
0. 53000E+00	0. 26500E-01	0. 86500E+00	0. 43250E-01	10115
0. 10700E-02	0. 25000E-03	0. 22200E-02	0. 23000E-03	10116
0. 55900E-03	0. 35000E-03	0. 12900E-02	0. 27000E-03	10118
0. 65000E-04	0. 34000E-05	0. 50900E-03	0. 25450E-04	10138
0. 55200E-02	0. 37000E-03	0. 87000E-02	0. 43500E-03	10140
0. 14700E-06	0. 45000E-07	0. 43400E-05	0. 19876E-06	10137
0. 32000E+00	0. 70000E-01	0. 22400E+00	0. 11200E-01	10159
0. 69000E-02	0. 11040E-02	0. 76025E-02	0. 38012E-03	10207
0. 28600E-01	0. 14300E-02	0. 89336E-02	0. 44668E-03	10208
0. 84100E-01	0. 42050E-02	0. 47234E-01	0. 23617E-02	10209
0. 25000E-05	0. 70000E-06	0. 91991E-05	0. 13199E-05	10206
0. 19000E-06	0. 39900E-07	0. 54392E-05	0. 12695E-05	10205
0. 13000E-02	0. 65000E-03	0. 42000E-01	0. 12600E-01	10246
0. 12000E-02	0. 14400E-03	0. 34603E-04	0. 79586E-05	10230
0. 86800E-02	0. 78120E-03	0. 53833E-02	0. 48450E-03	10231
0. 39200E-04	0. 31360E-05	0. 42000E-03	0. 13020E-03	10232
0. 15700E+00	0. 78500E-02	0. 23581E-01	0. 11791E-02	10233
0. 58000E-01	0. 29000E-02	0. 54800E-02	0. 27400E-03	10234
0. 18300E-01	0. 14640E-02	0. 63536E-03	0. 50829E-04	10235
0. 13000E+01	0. 65000E-01	0. 16584E+00	0. 82920E-02	10237
0. 67700E+00	0. 33850E-01	0. 50461E-01	0. 25231E-02	10238
0. 23000E-06	0. 85100E-07	0. 31104E-06	0. 21773E-07	10222
0. 38300E-01	0. 34470E-02	0. 27500E-01	0. 13750E-02	10274
0. 35300E-01	0. 14473E-01	0. 14550E+00	0. 72750E-02	10286
0. 49600E-01	0. 24800E-02	0. 59908E-01	0. 29954E-02	10287
0. 43400E-06	0. 23436E-06	0. 31283E-04	0. 12400E-04	10307
0. 86110E-04	0. 17494E-04	0. 12209E-04	0. 29651E-05	10308
0. 40400E-01	0. 20200E-02	0. 60000E-02	0. 15000E-02	10311

0. 57700E-02	0. 28850E-03	0. 10300E-01	0. 27810E-02	10312
0. 13000E-02	0. 49400E-03	0. 13000E-02	0. 31200E-03	10314
0. 18800E+00	0. 48880E-01	0. 13008E-01	0. 91054E-03	10293
0. 16900E-01	0. 13520E-02	0. 18284E-02	0. 91422E-04	10295
0. 22400E+01	0. 40320E+00	0. 28956E+00	0. 14478E-01	10298
0. 19900E-02	0. 75620E-03	0. 16900E-02	0. 43940E-03	10300
0. 11000E-06	0. 72600E-07	0. 69492E-06	0. 19487E-06	10375
0. 24800E-03	0. 96720E-04	0. 46762E-02	0. 42085E-03	10400
0. 17700E-04	0. 44250E-05	0. 16361E-03	0. 16361E-04	10466
0. 14900E-04	0. 84930E-05	0. 14345E-04	0. 12911E-05	10275
0. 47300E-03	0. 56760E-04	0. 13166E-03	0. 14483E-04	10278
0. 40000E+00	0. 56000E-01	0. 16228E+01	0. 16228E+00	10281
0. 20600E+00	0. 14420E-01	0. 55502E+00	0. 27751E-01	10282
0. 18881E-01	0. 94405E-03	0. 72120E-02	0. 36060E-03	10290
0. 25000E+02	0. 12500E+01	0. 55105E+01	0. 27553E+00	10304
0. 60900E-02	0. 30450E-03	0. 98682E-04	0. 28618E-04	10305
0. 11000E-02	0. 55000E-04	0. 27016E-04	0. 24314E-05	10303
0. 45557E-02	0. 22778E-03	0. 92470E-04	0. 83223E-05	10306
0. 11000E+02	0. 55000E+00	0. 33061E+01	0. 16531E+00	10406
0. 17400E-01	0. 87000E-03	0. 29846E-01	0. 14923E-02	10387
0. 13900E-03	0. 69500E-05	0. 28290E-04	0. 28290E-05	10329
0. 36000E-01	0. 97200E-02	0. 19038E-01	0. 95190E-03	10330
0. 31800E-02	0. 13674E-02	0. 40337E-02	0. 60506E-03	10335
0. 13000E-03	0. 16900E-04	0. 16291E-03	0. 32583E-04	10350
0. 18226E-01	0. 71080E-02	0. 61172E-02	0. 30586E-03	10353
0. 61159E-02	0. 10397E-02	0. 23007E-02	0. 13804E-02	10363
0. 19600E+02	0. 11760E+01	0. 53069E+01	0. 47762E+00	10392
0. 68500E-01	0. 68500E-02	0. 84194E-01	0. 75774E-02	10394
0. 33300E+00	0. 16650E-01	0. 11400E+00	0. 10260E-01	10395
0. 15200E+01	0. 76000E-01	0. 23728E+00	0. 11864E-01	10396
0. 19100E-02	0. 63030E-03	0. 14000E-02	0. 37800E-03	10397
0. 24412E+01	0. 12206E+00	0. 31163E+00	0. 56093E-01	10438
0. 32000E-01	0. 80000E-02	0. 22522E-02	0. 36035E-03	10440
0. 31154E-02	0. 10593E-02	0. 10536E-02	0. 24232E-03	10441
0. 70400E-03	0. 21824E-03	0. 41400E-03	0. 78660E-04	10443
0. 28670E-02	0. 83143E-03	0. 79059E-03	0. 39530E-04	10444
0. 60910E-01	0. 36546E-02	0. 17318E-01	0. 86590E-03	10445
0. 71600E+00	0. 35800E-01	0. 21791E+00	0. 21791E-01	10446
0. 20420E+00	0. 10210E-01	0. 34744E+00	0. 17372E-01	10447
0. 26340E-03	0. 65850E-04	0. 15530E-03	0. 45037E-04	10448
0. 18400E-01	0. 92000E-03	0. 30138E-02	0. 15069E-03	10556
0. 15501E-04	0. 76962E-06	0. 18643E-05	0. 27738E-06	10501
0. 33724E-06	0. 14839E-06	0. 71083E-06	0. 21674E-06	10503
0. 12100E-05	0. 96800E-07	0. 26975E-06	0. 35067E-07	10520
0. 69622E-05	0. 34811E-06	0. 52193E-06	0. 57412E-07	10521
0. 16000E-05	0. 11200E-06	0. 84007E-06	0. 92408E-07	10522
0. 58300E-05	0. 29150E-06	0. 51486E-06	0. 97824E-07	10523
0. 27600E-05	0. 13800E-06	0. 84707E-06	0. 84707E-07	10524
0. 21400E-03	0. 10700E-04	0. 49747E-04	0. 39798E-05	10525
0. 11900E-01	0. 59500E-03	0. 26200E-02	0. 23580E-03	10526
0. 30205E-05	0. 21144E-06	0. 25100E-06	0. 52710E-07	10527
0. 17300E-02	0. 27680E-03	0. 79269E-03	0. 11098E-03	10528
0. 23000E-01	0. 25300E-02	0. 56535E-01	0. 28268E-02	10529
0. 41900E-02	0. 41900E-03	0. 66935E-02	0. 10040E-02	10530
0. 29900E-01	0. 14950E-02	0. 14308E-01	0. 71541E-02	10531
0. 80055E+00	0. 80055E-01	0. 54081E+00	0. 27041E-01	10532
0. 79700E+00	0. 39850E-01	0. 53103E+00	0. 26552E-01	10533
0. 15000E-04	0. 75000E-06	0. 32234E-05	0. 32234E-06	10557
0. 87000E-06	0. 11310E-06	0. 29719E-06	0. 47550E-07	10564
0. 93700E-07	0. 30000E-07	0. 46600E-07	0. 19100E-07	10567
0. 31200E-01	0. 28080E-02	0. 36700E-01	0. 18350E-02	10571
0. 95000E-02	0. 25700E-02	0. 72700E-02	0. 36400E-03	10572
0. 83000E-03	0. 23200E-03	0. 10000E-02	0. 21000E-03	10575

0. 22400E+00	0. 49280E-01	0. 25100E+00	0. 52710E-01	10604
0. 71800E-02	0. 86160E-03	0. 39345E-02	0. 59017E-03	10605
0. 35400E-05	0. 77880E-06	0. 12264E-05	0. 66227E-06	10596
0. 57200E-02	0. 21164E-02	0. 49318E-02	0. 93703E-03	10681
0. 43300E-02	0. 15155E-02	0. 60437E-02	0. 10879E-02	10682
0. 13600E-05	0. 81600E-06	0. 23400E-06	0. 42120E-07	10332
0. 22200E-06	0. 16700E-06	0. 13100E-05	0. 39200E-06	10333
0. 18600E-02	0. 10044E-02	0. 94164E-02	0. 47082E-03	10338
0. 12600E-02	0. 12600E-03	0. 93000E-03	0. 18600E-03	10553
0. 77200E-03	0. 61760E-04	0. 52500E-03	0. 10500E-03	10554
0. 74800E-05	0. 67320E-06	0. 72000E-06	0. 15120E-06	10645
0. 20606E-06	0. 10303E-06	0. 70440E-07	0. 35220E-07	10646
0. 10800E-01	0. 54000E-03	0. 46325E-02	0. 50957E-03	10647
0. 37200E+02	0. 18600E+01	0. 67669E+01	0. 33834E+00	10672
0. 93100E-02	0. 46550E-03	0. 28188E-01	0. 14094E-02	10758
0. 14900E+01	0. 74500E-01	0. 22172E+01	0. 11086E+00	10761
0. 11900E+00	0. 59500E-02	0. 12043E+00	0. 60217E-02	10762
0. 75200E-07	0. 43616E-07	0. 84473E-06	0. 33750E-06	10727
0. 25000E-03	0. 35000E-04	0. 53608E-02	0. 58969E-03	10729
0. 28500E-04	0. 37050E-05	0. 48304E-04	0. 67625E-05	10730
0. 87400E-03	0. 30590E-03	0. 16494E-02	0. 31338E-03	10732
0. 26300E-04	0. 12624E-04	0. 30137E-04	0. 75392E-05	10808



## CORRELATION RESULTS

Nuclides Tested for Correlation are 144-CE and 242-CM

Test made on 21-SEP-84

Sorting Criteria are :

PWR

Number of entries in the fit is 245

Zero Offset Value, B0, is 2.76030E-10

Correlation Ratio, B1, is 2.26688E-02

Standard Deviation in B0 is 1.39681E-09

Standard Deviation in B1 is 3.99994E-03

F-TEST Value is 36.825

Confidence Level for this Correlation is: 99. %

PWR

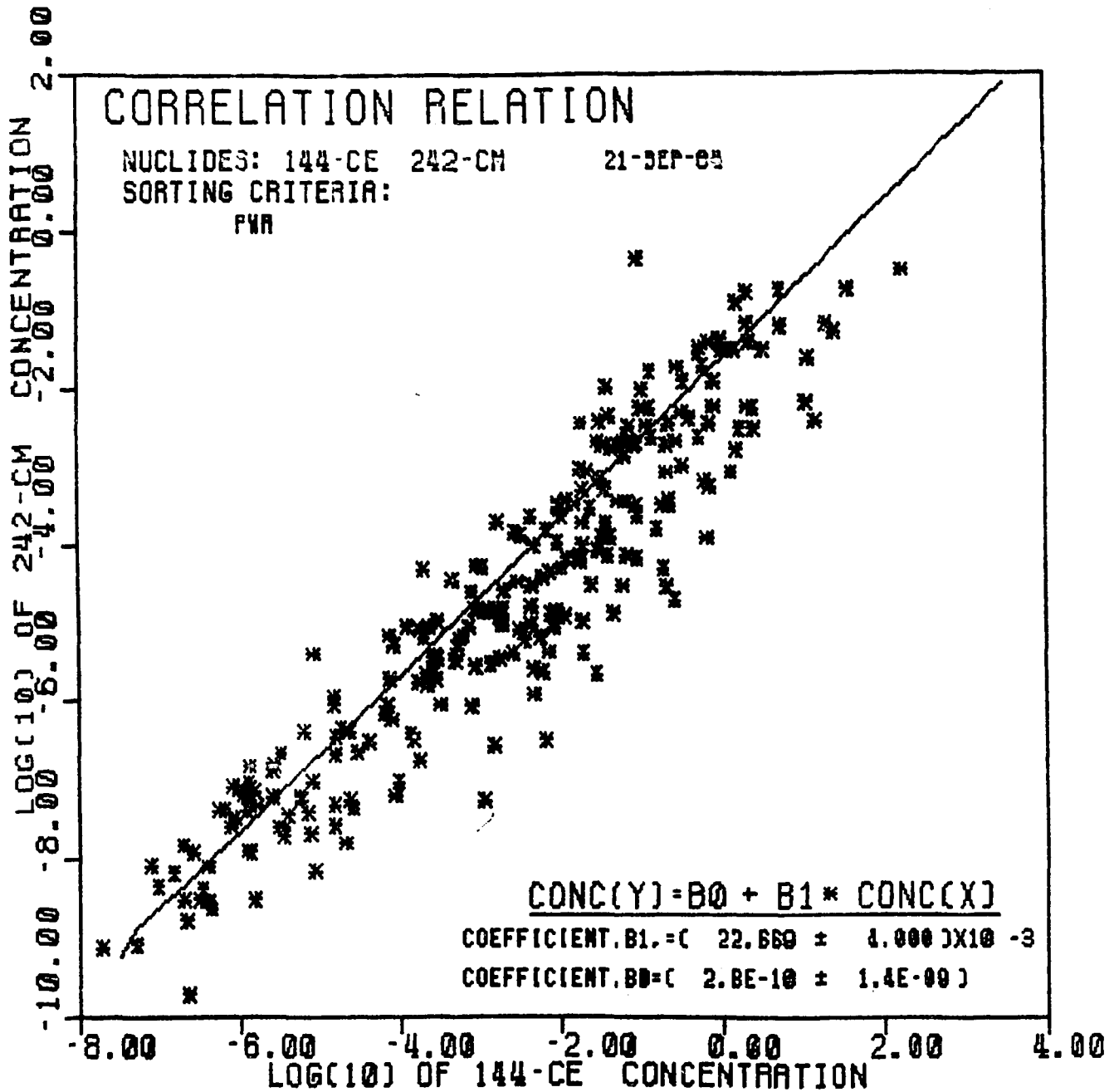
0. 14000E+01	0. 20000E+00	0. 29100E-01	0. 14550E-02	9928
0. 32000E+01	0. 30000E+00	0. 30200E-01	0. 15100E-02	9929
0. 22300E-04	0. 53000E-05	0. 42000E-06	0. 30000E-07	7269
0. 40000E-05	0. 80000E-06	0. 37000E-07	0. 20000E-08	6956
0. 61600E-04	0. 31000E-05	0. 72000E-06	0. 10000E-06	6955
0. 13000E-05	0. 20000E-06	0. 91000E-07	0. 10000E-07	6724
0. 19000E-03	0. 40000E-04	0. 68000E-05	0. 15000E-05	6725
0. 63500E-05	0. 63000E-06	0. 42000E-06	0. 40000E-07	6728
0. 10900E-05	0. 39000E-06	0. 69000E-07	0. 60000E-08	6730
0. 14900E-05	0. 81000E-06	0. 71000E-07	0. 30000E-07	7140
0. 21000E-03	0. 10500E-04	0. 17000E-05	0. 30000E-06	T089
0. 15500E-05	0. 80000E-07	0. 32000E-08	0. 40000E-09	6855
0. 20900E-04	0. 10450E-05	0. 16400E-07	0. 15000E-08	7164
0. 35000E-05	0. 45000E-06	0. 20000E-07	0. 40000E-08	7130
0. 39800E-06	0. 16000E-06	0. 81000E-08	0. 20000E-08	7050
0. 13900E-04	0. 70000E-05	0. 93000E-06	0. 50000E-07	6843
0. 25900E-05	0. 51000E-06	0. 61000E-07	0. 10000E-07	7049
0. 85000E-05	0. 19000E-05	0. 72000E-08	0. 70000E-09	T098
0. 12100E-05	0. 20000E-06	0. 13000E-07	0. 20000E-08	6842
0. 14800E-04	0. 74000E-06	0. 27200E-07	0. 60000E-08	7655
0. 80300E-05	0. 12800E-05	0. 98000E-07	0. 49000E-08	7897
0. 94400E-04	0. 63000E-05	0. 96900E-07	0. 48450E-08	7896
0. 17000E-03	0. 90000E-05	0. 18100E-06	0. 25000E-07	7440
0. 14100E-02	0. 70500E-04	0. 29100E-06	0. 15000E-07	7567
0. 23400E-04	0. 12000E-05	0. 57700E-07	0. 28850E-08	7562
0. 74000E-04	0. 37000E-05	0. 60100E-06	0. 30050E-07	7888
0. 31600E-05	0. 99000E-06	0. 22400E-06	0. 11200E-07	7385
0. 14400E-04	0. 72000E-06	0. 12000E-05	0. 10000E-06	7386
0. 12500E-05	0. 17000E-06	0. 63500E-07	0. 32000E-08	7432
0. 13400E-05	0. 52000E-06	0. 15100E-06	0. 13000E-07	7648
0. 12300E-05	0. 21000E-06	0. 50900E-07	0. 41000E-08	8026
0. 17200E+03	0. 10000E+02	0. 31000E+00	0. 15500E-01	9034
0. 77000E-03	0. 90000E-04	0. 93000E-06	0. 60000E-07	9652
0. 74000E-06	0. 70000E-07	0. 25900E-07	0. 12950E-08	9760
0. 19300E-06	0. 25000E-07	0. 31000E-08	0. 20000E-09	9759
0. 31000E-06	0. 20000E-07	0. 31500E-08	0. 16000E-09	9761
0. 39900E-06	0. 19950E-07	0. 30000E-08	0. 30000E-09	9762
0. 42000E-01	0. 17000E-01	0. 17000E-02	0. 30000E-03	9502
0. 55000E-06	0. 30000E-06	0. 41800E-07	0. 20509E-08	9505
0. 64000E-06	0. 35000E-06	0. 43000E-07	0. 21500E-08	9509
0. 59300E-02	0. 56000E-03	0. 24400E-05	0. 12200E-06	9213
0. 19000E+00	0. 40000E-01	0. 49000E-04	0. 15000E-04	6859
0. 52000E-01	0. 90000E-02	0. 36000E-03	0. 40000E-04	T096
0. 26600E-03	0. 47000E-04	0. 40000E-05	0. 20000E-05	T071
0. 41000E-02	0. 23000E-02	0. 23000E-03	0. 40000E-04	T074
0. 26200E+00	0. 15000E-01	0. 20000E-04	0. 40000E-05	9245
0. 70000E-01	0. 14000E-01	0. 31200E-02	0. 67000E-03	6848
0. 30900E-03	0. 20000E-03	0. 96300E-06	0. 19000E-06	7288
0. 28600E-03	0. 18000E-03	0. 11000E-04	0. 30000E-05	6957
0. 37000E-01	0. 17000E-01	0. 10000E-01	0. 20000E-02	6738
0. 12900E+00	0. 11000E-01	0. 16200E-01	0. 81000E-03	7066
0. 16000E-02	0. 30000E-03	0. 20000E-03	0. 30000E-04	T077
0. 84600E-01	0. 41000E-01	0. 31000E-03	0. 30000E-04	7149
0. 45000E-01	0. 10000E-01	0. 14000E-04	0. 30000E-05	T095
0. 17000E-02	0. 10000E-02	0. 37000E-05	0. 10000E-05	T040
0. 74300E-01	0. 25700E-01	0. 21100E-02	0. 10550E-03	7921
0. 79400E-01	0. 43800E-01	0. 18600E-02	0. 13000E-03	7919
0. 93000E-03	0. 62000E-04	0. 14600E-04	0. 73000E-06	7188
0. 20800E+00	0. 45000E-01	0. 29800E-04	0. 17600E-04	7606
0. 13000E+00	0. 82000E-01	0. 53800E-02	0. 27000E-03	7451
0. 29100E+00	0. 14400E+00	0. 18100E-01	0. 90500E-03	7595



0. 23500E-01	0. 11750E-02	0. 32000E-04	0. 50000E-05	10007
0. 25000E-06	0. 20000E-07	0. 12300E-07	0. 61500E-09	10008
0. 70000E-04	0. 10000E-04	0. 20500E-05	0. 10250E-06	10010
0. 50000E-03	0. 30000E-03	0. 50000E-05	0. 10000E-05	10011
0. 17800E-01	0. 20000E-02	0. 36000E-02	0. 20000E-03	6841
0. 10500E+00	0. 11000E-01	0. 97000E-02	0. 80000E-03	7077
0. 14000E-01	0. 60000E-02	0. 33000E-03	0. 30000E-04	T042
0. 25000E+01	0. 12500E+00	0. 30000E-02	0. 20000E-03	6858
0. 53000E+01	0. 30000E+00	0. 18000E+00	0. 20000E-01	T079
0. 40000E-01	0. 20000E-01	0. 43000E-02	0. 21500E-03	T034
0. 95000E-01	0. 12000E-01	0. 55000E-02	0. 10000E-02	T075
0. 64000E-02	0. 20000E-02	0. 16000E-03	0. 20000E-04	T080
0. 46000E-02	0. 20000E-02	0. 13000E-05	0. 60000E-06	T035
0. 45400E-02	0. 62000E-03	0. 10300E-03	0. 51500E-05	7147
0. 19500E-03	0. 12000E-03	0. 50000E-04	0. 10000E-04	7157
0. 19000E-02	0. 12000E-02	0. 96900E-05	0. 17000E-05	7186
0. 17000E-01	0. 50000E-02	0. 91800E-03	0. 65000E-04	6844
0. 63000E+00	0. 26000E+00	0. 64000E-03	0. 80000E-04	T043
0. 31200E-01	0. 18000E-01	0. 37900E-02	0. 64000E-03	7591
0. 91100E-01	0. 11300E-01	0. 44500E+00	0. 53000E-01	7593
0. 10100E+01	0. 50500E-01	0. 28800E-01	0. 14400E-02	8003
0. 81400E-04	0. 41600E-04	0. 54200E-05	0. 44000E-06	8020
0. 10000E-01	0. 33000E-02	0. 52300E-04	0. 92000E-05	7586
0. 21000E+01	0. 15000E+00	0. 66300E-01	0. 66000E-02	8038
0. 69200E+00	0. 62000E-01	0. 37500E-01	0. 75000E-02	8028
0. 16100E-03	0. 50000E-04	0. 18000E-05	0. 12000E-05	7398
0. 22000E+00	0. 11000E-01	0. 34000E-03	0. 20000E-03	T102
0. 26700E+00	0. 33000E-01	0. 21000E-02	0. 20000E-03	T081
0. 88600E-01	0. 44300E-02	0. 67000E-04	0. 60000E-05	T082
0. 16700E+01	0. 83500E-01	0. 30000E-02	0. 40000E-03	T083
0. 14100E+02	0. 70500E+00	0. 37000E-02	0. 50000E-03	T084
0. 13800E+00	0. 70000E-02	0. 23000E-02	0. 11500E-03	6727
0. 12000E+02	0. 30000E+01	0. 23000E-01	0. 30000E-02	T044
0. 21000E+01	0. 90000E+00	0. 57000E-02	0. 50000E-03	T045
0. 33800E+00	0. 10000E+00	0. 11900E-01	0. 90000E-03	7694
0. 26300E-02	0. 13150E-03	0. 14700E-03	0. 73500E-05	7893
0. 45800E-03	0. 23000E-04	0. 36300E-04	0. 18150E-05	7894
0. 49400E-07	0. 25000E-08	0. 85900E-09	0. 60000E-10	C001
0. 18000E-07	0. 32000E-08	0. 77000E-09	0. 69000E-10	C002
0. 88700E-01	0. 62000E-02	0. 22900E-03	0. 11450E-04	10090
0. 53000E+00	0. 26500E-01	0. 23100E-02	0. 11550E-03	10083
0. 69300E+00	0. 34650E-01	0. 34200E-02	0. 17100E-03	10082
0. 18700E-01	0. 93500E-03	0. 50200E-03	0. 25100E-04	10056
0. 20800E-01	0. 10400E-02	0. 86800E-03	0. 44000E-04	10057
0. 13700E-05	0. 13000E-06	0. 12785E-07	0. 60875E-09	10058
0. 96850E-06	0. 16038E-06	0. 78150E-07	0. 38033E-08	10059
0. 61800E-01	0. 30900E-02	0. 20600E-02	0. 10300E-03	10062
0. 82000E-06	0. 12000E-06	0. 83200E-07	0. 41600E-08	10063
0. 90000E-03	0. 11000E-03	0. 56200E-04	0. 28100E-05	10064
0. 29000E-01	0. 16000E-02	0. 20900E-02	0. 10450E-03	10066
0. 42800E-02	0. 21400E-03	0. 10000E-04	0. 10000E-05	10013
0. 80400E-02	0. 40200E-03	0. 92500E-05	0. 46250E-06	10014
0. 35300E-02	0. 27000E-03	0. 65000E-05	0. 70000E-06	10015
0. 25400E-02	0. 12700E-03	0. 41900E-05	0. 39000E-06	10016
0. 55000E+01	0. 70000E+00	0. 61000E-01	0. 12000E-01	9974
0. 60100E+00	0. 30050E-01	0. 18800E-01	0. 94000E-03	9973
0. 12000E-01	0. 30000E-02	0. 38300E-03	0. 19150E-04	10026
0. 32000E-01	0. 60000E-02	0. 18700E-02	0. 93500E-04	10027
0. 28000E-01	0. 15000E-01	0. 23100E-05	0. 11550E-06	9963
0. 22700E+00	0. 22000E-01	0. 32300E-03	0. 65000E-04	10143
0. 73000E-02	0. 36500E-03	0. 13600E-04	0. 68000E-06	10144
0. 64900E-01	0. 32450E-02	0. 74000E-04	0. 37000E-05	10145
0. 59900E-03	0. 15000E-03	0. 70700E-05	0. 12000E-05	10146

0. 56400E-05	0. 22000E-05	0. 62700E-07	0. 31350E-08	10121
0. 11800E-03	0. 59000E-05	0. 94000E-05	0. 47000E-06	10072
0. 82000E-05	0. 70000E-06	0. 41300E-05	0. 37000E-06	10079
0. 55000E+00	0. 17000E+00	0. 33000E-01	0. 16500E-02	10074
0. 20500E+01	0. 10250E+00	0. 16300E+00	0. 81500E-02	10075
0. 97000E+00	0. 61000E+00	0. 41200E-01	0. 20600E-02	10077
0. 72000E-04	0. 20000E-04	0. 70500E-03	0. 35250E-06	10078
0. 88700E-02	0. 44350E-03	0. 10800E-03	0. 56000E-05	10108
0. 22700E-03	0. 37000E-04	0. 90900E-05	0. 45450E-06	10110
0. 17400E-03	0. 26000E-04	0. 83500E-05	0. 59000E-06	10111
0. 28700E-03	0. 17000E-03	0. 36300E-05	0. 94000E-06	10113
0. 88200E-02	0. 44100E-03	0. 31800E-03	0. 15900E-04	10114
0. 53000E+00	0. 26500E-01	0. 28100E-01	0. 14050E-02	10115
0. 10700E-02	0. 25000E-03	0. 52900E-04	0. 27000E-05	10116
0. 55900E-03	0. 35000E-03	0. 65400E-05	0. 12000E-05	10118
0. 65000E-04	0. 34000E-05	0. 92200E-06	0. 46100E-07	10138
0. 55200E-02	0. 37000E-03	0. 69300E-05	0. 10000E-05	10140
0. 14700E-06	0. 45000E-07	0. 68840E-08	0. 55866E-09	10137
0. 32000E+00	0. 70000E-01	0. 10000E-02	0. 30000E-03	10159
0. 69000E-02	0. 11040E-02	0. 46612E-04	0. 46612E-05	10207
0. 28600E-01	0. 14300E-02	0. 86202E-04	0. 60341E-05	10208
0. 84100E-01	0. 42050E-02	0. 20643E-02	0. 10322E-03	10209
0. 25000E-05	0. 70000E-06	0. 13769E-06	0. 20899E-07	10206
0. 19000E-06	0. 39900E-07	0. 15070E-07	0. 72959E-08	10205
0. 13000E-02	0. 65000E-03	0. 14497E-04	0. 86985E-06	10246
0. 86800E-02	0. 78120E-03	0. 14982E-04	0. 26967E-05	10231
0. 39200E-04	0. 31360E-05	0. 31000E-06	0. 13640E-06	10232
0. 15700E+00	0. 78500E-02	0. 15937E-03	0. 79686E-05	10233
0. 58000E-01	0. 29000E-02	0. 30684E-04	0. 15342E-05	10234
0. 18300E-01	0. 14640E-02	0. 10985E-04	0. 15379E-05	10235
0. 13000E+01	0. 65000E-01	0. 83564E-03	0. 41782E-04	10237
0. 67700E+00	0. 33850E-01	0. 12183E-03	0. 85281E-05	10238
0. 38300E-01	0. 34470E-02	0. 72100E-04	0. 43260E-05	10274
0. 35300E-01	0. 14473E-01	0. 52200E-03	0. 26100E-04	10286
0. 49600E-01	0. 24800E-02	0. 18200E-02	0. 36400E-03	10287
0. 43400E-06	0. 23436E-06	0. 23711E-08	0. 49793E-09	10307
0. 86110E-04	0. 17494E-04	0. 64925E-07	0. 22674E-07	10308
0. 40400E-01	0. 20200E-02	0. 12516E-03	0. 62580E-05	10311
0. 57700E-02	0. 28850E-03	0. 38544E-04	0. 19272E-05	10312
0. 13000E-02	0. 49400E-03	0. 32085E-05	0. 60962E-06	10314
0. 18800E+00	0. 48880E-01	0. 32300E-03	0. 83980E-04	10293
0. 16900E-01	0. 13520E-02	0. 75900E-04	0. 75900E-05	10295
0. 22400E+01	0. 40320E+00	0. 37600E-01	0. 18800E-02	10298
0. 19900E-02	0. 75620E-03	0. 27400E-04	0. 41100E-05	10300
0. 24800E-03	0. 96720E-04	0. 37196E-05	0. 26037E-06	10400
0. 17700E-04	0. 44250E-05	0. 45423E-06	0. 40880E-07	10466
0. 14900E-04	0. 84930E-05	0. 48841E-07	0. 10745E-07	10275
0. 47300E-03	0. 56760E-04	0. 35200E-05	0. 17600E-06	10278
0. 40000E+00	0. 56000E-01	0. 41200E-02	0. 65920E-03	10281
0. 20600E+00	0. 14420E-01	0. 83900E-03	0. 41950E-04	10282
0. 18881E-01	0. 94405E-03	0. 42500E-05	0. 19125E-05	10290
0. 25000E+02	0. 12500E+01	0. 51020E-01	0. 25510E-02	10304
0. 60900E-02	0. 30450E-03	0. 34669E-06	0. 14561E-06	10305
0. 11000E-02	0. 55000E-04	0. 57494E-07	0. 28747E-08	10303
0. 45557E-02	0. 22778E-03	0. 27151E-05	0. 13576E-06	10306
0. 11000E+02	0. 55000E+00	0. 64630E-02	0. 32315E-03	10406
0. 17400E-01	0. 87000E-03	0. 64857E-04	0. 45400E-05	10387
0. 13900E-03	0. 69500E-05	0. 34500E-06	0. 89700E-07	10329
0. 36000E-01	0. 97200E-02	0. 19419E-03	0. 97095E-05	10330
0. 31800E-02	0. 13674E-02	0. 13558E-03	0. 94907E-05	10335
0. 13000E-03	0. 16900E-04	0. 41080E-06	0. 12324E-06	10350
0. 18226E-01	0. 71080E-02	0. 10274E-03	0. 51371E-05	10353
0. 19600E+02	0. 11760E+01	0. 64719E-01	0. 22005E-01	10392

0. 68500E-01	0. 68500E-02	0. 35899E-03	0. 78977E-04	10394
0. 33300E+00	0. 16650E-01	0. 48636E-02	0. 24318E-03	10395
0. 15200E+01	0. 76000E-01	0. 16169E-02	0. 80845E-04	10396
0. 19100E-02	0. 63030E-03	0. 16000E-04	0. 27200E-05	10397
0. 24412E+01	0. 12206E+00	0. 53716E-02	0. 26858E-03	10438
0. 32000E-01	0. 80000E-02	0. 12385E-03	0. 61925E-05	10440
0. 31154E-02	0. 10593E-02	0. 83579E-05	0. 15044E-05	10441
0. 70400E-03	0. 21824E-03	0. 91606E-05	0. 16489E-05	10443
0. 28670E-02	0. 83143E-03	0. 35521E-04	0. 42625E-05	10444
0. 60910E-01	0. 36546E-02	0. 13709E-02	0. 95961E-04	10445
0. 71600E+00	0. 35800E-01	0. 54490E-03	0. 27245E-04	10446
0. 20420E+00	0. 10210E-01	0. 18470E-02	0. 92350E-04	10447
0. 26340E-03	0. 65850E-04	0. 20207E-05	0. 36372E-06	10448
0. 18400E-01	0. 92000E-03	0. 19237E-03	0. 96187E-05	10556
0. 15501E-04	0. 76762E-06	0. 21727E-06	0. 10383E-07	10501
0. 33724E-06	0. 14839E-06	0. 42959E-08	0. 28359E-09	10503
0. 12100E-05	0. 96800E-07	0. 42054E-07	0. 21027E-08	10520
0. 69622E-05	0. 34811E-06	0. 39802E-07	0. 19901E-08	10521
0. 16000E-05	0. 11200E-06	0. 48047E-07	0. 24024E-08	10522
0. 58300E-05	0. 29150E-06	0. 56935E-07	0. 28468E-08	10523
0. 27600E-05	0. 13800E-06	0. 15940E-06	0. 79700E-08	10524
0. 21400E-03	0. 10700E-04	0. 23623E-05	0. 11811E-06	10525
0. 11900E-01	0. 59500E-03	0. 69900E-04	0. 34950E-05	10526
0. 30205E-05	0. 21144E-06	0. 25997E-07	0. 12999E-08	10527
0. 17300E-02	0. 27680E-03	0. 12644E-04	0. 11379E-05	10528
0. 23000E-01	0. 25300E-02	0. 28997E-03	0. 17398E-04	10529
0. 41900E-02	0. 41900E-03	0. 31044E-04	0. 18626E-05	10530
0. 29900E-01	0. 14950E-02	0. 69116E-03	0. 34558E-04	10531
0. 80055E+00	0. 80055E-01	0. 11798E-01	0. 17696E-02	10532
0. 79700E+00	0. 39850E-01	0. 57368E-02	0. 28684E-03	10533
0. 15000E-04	0. 75000E-06	0. 36649E-06	0. 18325E-07	10557
0. 87000E-06	0. 11310E-06	0. 33290E-07	0. 16645E-08	10564
0. 93700E-07	0. 30000E-07	0. 46300E-08	0. 23150E-09	10567
0. 31200E-01	0. 28080E-02	0. 68700E-03	0. 34350E-04	10571
0. 95000E-02	0. 25700E-02	0. 24000E-03	0. 38400E-04	10572
0. 83000E-03	0. 23200E-03	0. 16200E-04	0. 13000E-05	10575
0. 22400E+00	0. 49280E-01	0. 37714E-03	0. 18857E-04	10604
0. 71800E-02	0. 86160E-03	0. 44713E-05	0. 24592E-05	10605
0. 35400E-05	0. 77880E-06	0. 25652E-07	0. 61566E-08	10596
0. 57200E-02	0. 21164E-02	0. 40914E-04	0. 77736E-05	10681
0. 43300E-02	0. 15155E-02	0. 16997E-04	0. 28895E-05	10682
0. 13600E-05	0. 81600E-06	0. 77000E-07	0. 61600E-08	10332
0. 22200E-06	0. 16700E-06	0. 20000E-09	0. 10600E-09	10333
0. 18600E-02	0. 10044E-02	0. 97700E-05	0. 34195E-05	10338
0. 12600E-02	0. 12600E-03	0. 16622E-04	0. 83110E-06	10553
0. 77200E-03	0. 61760E-04	0. 26342E-04	0. 13171E-05	10554
0. 74800E-03	0. 67320E-06	0. 21694E-07	0. 35031E-08	10645
0. 20606E-06	0. 10303E-06	0. 17188E-08	0. 34376E-09	10646
0. 10800E-01	0. 54000E-03	0. 12863E-04	0. 77179E-06	10647
0. 37200E+02	0. 18600E+01	0. 17554E+00	0. 87768E-02	10672
0. 93100E-02	0. 46550E-03	0. 34670E-03	0. 17335E-04	10758
0. 14900E+01	0. 74500E-01	0. 12075E+00	0. 60374E-02	10761
0. 11900E+00	0. 59500E-02	0. 33317E-02	0. 16659E-03	10762
0. 75200E-07	0. 43616E-07	0. 82937E-08	0. 57686E-09	10727
0. 25000E-03	0. 35000E-04	0. 27162E-05	0. 46175E-06	10729
0. 28500E-04	0. 37050E-05	0. 23765E-06	0. 21388E-07	10730
0. 87400E-03	0. 30590E-03	0. 29366E-05	0. 49923E-06	10732
0. 26300E-04	0. 12624E-04	0. 44469E-07	0. 12896E-07	10808



## CORRELATION RESULTS

Nuclides Tested for Correlation are 144-CE and 238-PU

Test made on 21-SEP-84

Sorting Criteria are :

PWR

Number of entries in the fit is 259

Zero Offset Value, B0, is  $-1.61347E-10$

Correlation Ratio, B1, is  $9.71760E-03$

Standard Deviation in B0 is  $4.84012E-10$

Standard Deviation in B1 is  $1.49884E-03$

F-TEST Value is 50.032

Confidence Level for this Correlation is: 99. %

PWR

0. 14000E+01	0. 20000E+00	0. 11700E-01	0. 58500E-03	9928
0. 32000E+01	0. 30000E+00	0. 22300E-01	0. 11150E-02	9929
0. 22300E-04	0. 53000E-05	0. 25000E-07	0. 20000E-08	7269
0. 40000E-05	0. 80000E-06	0. 10700E-07	0. 90000E-09	6956
0. 61600E-04	0. 31000E-05	0. 27000E-07	0. 13500E-08	6955
0. 13000E-05	0. 20000E-06	0. 12000E-07	0. 20000E-08	6724
0. 19000E-03	0. 40000E-04	0. 24000E-06	0. 20000E-07	6725
0. 63500E-05	0. 63000E-06	0. 15000E-07	0. 10000E-08	6728
0. 10900E-05	0. 39000E-06	0. 31000E-08	0. 30000E-09	6730
0. 14900E-05	0. 81000E-06	0. 76000E-07	0. 60000E-08	7140
0. 21000E-03	0. 10500E-04	0. 24000E-06	0. 30000E-07	T089
0. 15500E-05	0. 80000E-07	0. 60000E-09	0. 60000E-10	6855
0. 20900E-04	0. 10450E-05	0. 74000E-07	0. 40000E-08	7164
0. 35000E-05	0. 45000E-06	0. 96000E-08	0. 10000E-08	7130
0. 39800E-06	0. 16000E-06	0. 18000E-08	0. 60000E-09	7050
0. 13900E-04	0. 70000E-05	0. 48000E-07	0. 40000E-08	6843
0. 25900E-05	0. 51000E-06	0. 52000E-08	0. 30000E-09	7049
0. 85000E-05	0. 19000E-05	0. 18000E-08	0. 20000E-09	T098
0. 12100E-05	0. 20000E-06	0. 43000E-08	0. 70000E-09	6842
0. 14800E-04	0. 74000E-06	0. 11300E-07	0. 34000E-08	7655
0. 80300E-05	0. 12800E-05	0. 11000E-07	0. 60000E-09	7897
0. 17300E-04	0. 90000E-06	0. 96300E-05	0. 33700E-05	7650
0. 94400E-04	0. 63000E-05	0. 17500E-07	0. 90000E-09	7896
0. 17000E-03	0. 90000E-05	0. 28800E-06	0. 22000E-07	7440
0. 14100E-02	0. 70500E-04	0. 14300E-05	0. 71500E-07	7567
0. 37800E-02	0. 13000E-02	0. 61500E-05	0. 31000E-06	7892
0. 23400E-04	0. 12000E-05	0. 33200E-07	0. 75000E-08	7562
0. 74000E-04	0. 37000E-05	0. 12500E-06	0. 62500E-08	7888
0. 14800E-04	0. 18000E-05	0. 12600E-06	0. 14000E-07	7199
0. 31600E-05	0. 99000E-06	0. 71600E-08	0. 60000E-09	7385
0. 14400E-04	0. 72000E-06	0. 54400E-07	0. 30000E-08	7386
0. 12500E-05	0. 17000E-06	0. 51300E-08	0. 26000E-09	7432
0. 13400E-05	0. 52000E-06	0. 74000E-08	0. 37000E-09	7648
0. 12300E-05	0. 21000E-06	0. 36100E-07	0. 18050E-08	8026
0. 17200E+03	0. 10000E+02	0. 16400E+00	0. 82000E-02	9034
0. 77000E-03	0. 90000E-04	0. 55000E-06	0. 40000E-07	9652
0. 74000E-06	0. 70000E-07	0. 12700E-08	0. 63500E-10	9760
0. 19300E-06	0. 25000E-07	0. 35200E-09	0. 21000E-10	9759
0. 31000E-06	0. 20000E-07	0. 20300E-09	0. 18000E-10	9761
0. 39900E-06	0. 19950E-07	0. 22900E-09	0. 18000E-10	9762
0. 42000E-01	0. 17000E-01	0. 34000E-03	0. 20000E-04	9502
0. 55000E-06	0. 30000E-06	0. 64400E-08	0. 31563E-09	9505
0. 64000E-06	0. 35000E-06	0. 19500E-07	0. 10000E-08	9509
0. 59300E-02	0. 56000E-03	0. 76800E-06	0. 38400E-07	9213
0. 19000E+00	0. 40000E-01	0. 21000E-03	0. 30000E-04	6859
0. 52000E-01	0. 90000E-02	0. 87000E-04	0. 12000E-04	T096
0. 26600E-03	0. 47000E-04	0. 19000E-04	0. 30000E-05	T071
0. 47300E-01	0. 31000E-01	0. 83000E-05	0. 70000E-06	T073
0. 41000E-02	0. 23000E-02	0. 68000E-03	0. 80000E-04	T074
0. 26200E+00	0. 15000E-01	0. 11900E-03	0. 59500E-05	9245
0. 70000E-01	0. 14000E-01	0. 49100E-03	0. 89000E-04	6848
0. 71000E-04	0. 30000E-04	0. 12000E-05	0. 20000E-06	T041
0. 30900E-03	0. 20000E-03	0. 17500E-05	0. 65000E-06	7288
0. 28600E-03	0. 18000E-03	0. 35000E-04	0. 50000E-05	6957
0. 37000E-01	0. 17000E-01	0. 27000E-03	0. 40000E-04	6738
0. 15600E+01	0. 78000E-01	0. 18000E-02	0. 10000E-03	7148
0. 12900E+00	0. 11000E-01	0. 16200E-02	0. 90000E-04	7066
0. 16000E-02	0. 30000E-03	0. 18000E-03	0. 20000E-04	T077
0. 84600E-01	0. 41000E-01	0. 14000E-03	0. 10000E-04	7149
0. 45000E-01	0. 10000E-01	0. 14000E-04	0. 20000E-05	T095
0. 17000E-02	0. 10000E-02	0. 88000E-04	0. 14000E-04	T040

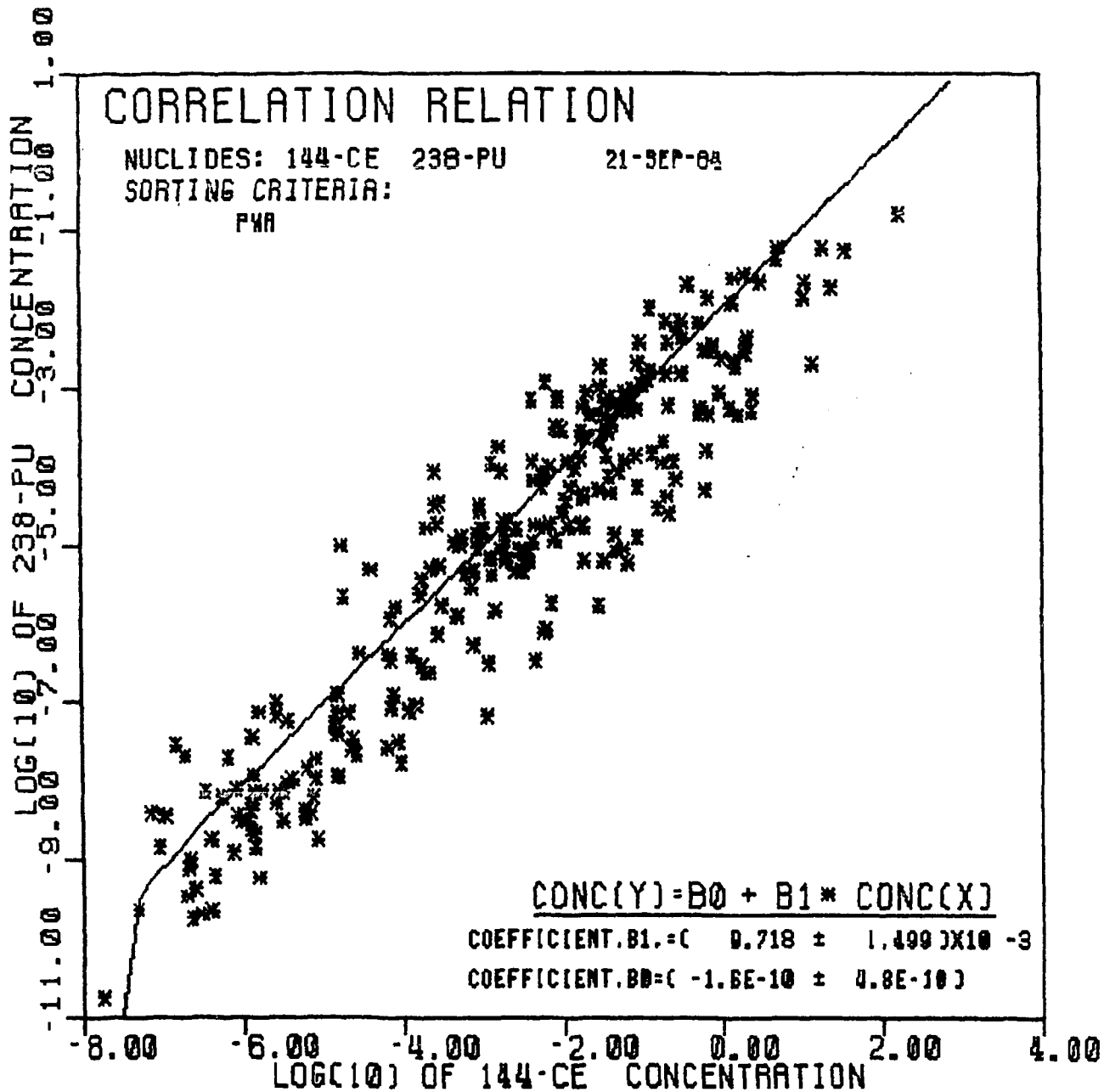
0. 74300E-01	0. 25700E-01	0. 62500E-03	0. 31250E-04	7921
0. 79400E-01	0. 43800E-01	0. 97700E-03	0. 90000E-04	7919
0. 93000E-03	0. 62000E-04	0. 32700E-04	0. 18000E-05	7188
0. 20800E+00	0. 45000E-01	0. 41800E-04	0. 31000E-05	7606
0. 13000E+00	0. 82000E-01	0. 10300E-01	0. 51500E-03	7451
0. 29100E+00	0. 14400E+00	0. 51500E-02	0. 26000E-03	7595
0. 23500E-01	0. 11750E-02	0. 23000E-03	0. 11500E-04	10007
0. 25000E-06	0. 20000E-07	0. 42600E-09	0. 34000E-10	10008
0. 70000E-04	0. 10000E-04	0. 35000E-06	0. 20000E-07	10010
0. 50000E-03	0. 30000E-03	0. 10000E-04	0. 30000E-05	10011
0. 94700E-03	0. 47000E-03	0. 16000E-04	0. 20000E-05	7154
0. 17800E-01	0. 20000E-02	0. 28000E-03	0. 20000E-04	6841
0. 10500E+00	0. 11000E-01	0. 10800E-02	0. 80000E-04	7077
0. 14000E-01	0. 60000E-02	0. 95000E-04	0. 13000E-04	T042
0. 25000E+01	0. 12500E+00	0. 82000E-03	0. 80000E-04	6858
0. 53000E+01	0. 30000E+00	0. 44000E-01	0. 60000E-02	T079
0. 40000E-01	0. 20000E-01	0. 73000E-03	0. 15000E-03	T034
0. 95000E-01	0. 12000E-01	0. 37000E-02	0. 50000E-03	T075
0. 64000E-02	0. 20000E-02	0. 12000E-02	0. 20000E-03	T080
0. 46000E-02	0. 20000E-02	0. 18000E-04	0. 30000E-05	T035
0. 45400E-02	0. 62000E-03	0. 66000E-04	0. 40000E-05	7147
0. 19500E-03	0. 12000E-03	0. 16500E-04	0. 82500E-06	7157
0. 19000E-02	0. 12000E-02	0. 78000E-05	0. 40000E-06	7186
0. 17000E-01	0. 50000E-02	0. 13000E-03	0. 22000E-04	6844
0. 63000E+00	0. 26000E+00	0. 52000E-04	0. 60000E-05	T043
0. 25300E-05	0. 21000E-06	0. 68800E-07	0. 21000E-07	7439
0. 31200E-01	0. 18000E-01	0. 19200E-02	0. 10000E-03	7591
0. 91100E-01	0. 11300E-01	0. 20700E-02	0. 15000E-03	7593
0. 10100E+01	0. 50500E-01	0. 24100E-02	0. 12050E-03	8003
0. 12100E-02	0. 71000E-03	0. 66200E-05	0. 17200E-05	7691
0. 81400E-04	0. 41600E-04	0. 16500E-05	0. 17000E-06	8020
0. 10000E-01	0. 33000E-02	0. 26200E-04	0. 42000E-05	7586
0. 12600E-01	0. 19000E-02	0. 56400E-04	0. 11300E-04	7676
0. 21000E+01	0. 15000E+00	0. 28000E-01	0. 14000E-02	8038
0. 69200E+00	0. 62000E-01	0. 14200E-01	0. 12000E-02	8028
0. 16100E-03	0. 50000E-04	0. 24000E-05	0. 31000E-06	7398
0. 22000E+00	0. 11000E-01	0. 37000E-02	0. 20000E-03	T102
0. 26700E+00	0. 33000E-01	0. 71000E-04	0. 40000E-04	T081
0. 88600E-01	0. 44300E-02	0. 13000E-04	0. 20000E-05	T082
0. 16700E+01	0. 83500E-01	0. 45000E-03	0. 40000E-04	T083
0. 14100E+02	0. 70500E+00	0. 20000E-02	0. 20000E-03	T084
0. 13800E+00	0. 70000E-02	0. 15000E-03	0. 10000E-04	6727
0. 12000E+02	0. 30000E+01	0. 22000E-01	0. 20000E-02	T044
0. 21000E+01	0. 90000E+00	0. 28000E-02	0. 40000E-03	T045
0. 33800E+00	0. 10000E+00	0. 42500E-02	0. 21250E-03	7694
0. 26300E-02	0. 13150E-03	0. 15900E-04	0. 80000E-06	7893
0. 45800E-03	0. 23000E-04	0. 11200E-04	0. 80000E-06	7894
0. 49400E-07	0. 25000E-08	0. 23700E-09	0. 11850E-10	C001
0. 18000E-07	0. 32000E-08	0. 18600E-10	0. 93000E-12	C002
0. 88700E-01	0. 62000E-02	0. 56200E-04	0. 28100E-05	10090
0. 53000E+00	0. 26500E-01	0. 47900E-03	0. 23950E-04	10083
0. 69300E+00	0. 34650E-01	0. 47400E-03	0. 23700E-04	10082
0. 18700E-01	0. 93500E-03	0. 57400E-03	0. 28700E-04	10056
0. 20800E-01	0. 10400E-02	0. 88100E-03	0. 44050E-04	10057
0. 13700E-05	0. 13000E-06	0. 14300E-08	0. 11180E-09	10058
0. 96850E-06	0. 16038E-06	0. 31550E-08	0. 22299E-09	10059
0. 61800E-01	0. 30900E-02	0. 88800E-03	0. 45000E-04	10062
0. 82000E-06	0. 12000E-06	0. 76900E-08	0. 38450E-09	10063
0. 90000E-03	0. 11000E-03	0. 27800E-04	0. 18000E-05	10064
0. 29000E-01	0. 16000E-02	0. 24500E-03	0. 13000E-04	10066
0. 42800E-02	0. 21400E-03	0. 10700E-04	0. 60000E-06	10013
0. 80400E-02	0. 40200E-03	0. 11600E-04	0. 58000E-06	10014
0. 35300E-02	0. 27000E-03	0. 78000E-05	0. 68000E-06	10015

0. 25400E-02	0. 12700E-03	0. 47400E-05	0. 33000E-06	10016
0. 55000E+01	0. 70000E+00	0. 62400E-01	0. 31200E-02	9974
0. 60100E+00	0. 30050E-01	0. 30200E-02	0. 15100E-03	9973
0. 12000E-01	0. 30000E-02	0. 12300E-03	0. 61500E-05	10026
0. 32000E-01	0. 60000E-02	0. 44100E-03	0. 22050E-04	10027
0. 28000E-01	0. 15000E-01	0. 16900E-03	0. 84500E-07	9963
0. 22700E+00	0. 22000E-01	0. 26000E-04	0. 13000E-05	10143
0. 73000E-02	0. 36500E-03	0. 18800E-05	0. 20000E-06	10144
0. 64900E-01	0. 32450E-02	0. 58400E-05	0. 59000E-06	10145
0. 59900E-03	0. 15000E-03	0. 43600E-05	0. 69000E-06	10146
0. 56400E-05	0. 22000E-05	0. 43000E-08	0. 26000E-09	10121
0. 11800E-03	0. 59000E-05	0. 79600E-07	0. 39800E-08	10072
0. 82000E-05	0. 70000E-06	0. 19000E-07	0. 20000E-08	10079
0. 55000E+00	0. 17000E+00	0. 56300E-03	0. 28150E-04	10074
0. 20500E+01	0. 10250E+00	0. 35800E-02	0. 17900E-03	10075
0. 97000E+00	0. 61000E+00	0. 85700E-03	0. 42850E-04	10077
0. 72000E-04	0. 20000E-04	0. 83800E-07	0. 41900E-08	10078
0. 88700E-02	0. 44350E-03	0. 66300E-03	0. 33150E-04	10108
0. 22700E-03	0. 37000E-04	0. 50600E-05	0. 2' 000E-06	10110
0. 17400E-03	0. 26000E-04	0. 37200E-05	0. 3000 E-06	10111
0. 28700E-03	0. 17000E-03	0. 53700E-05	0. 98000E-06	10113
0. 88200E-02	0. 44100E-03	0. 78300E-03	0. 39150E-04	10114
0. 53000E+00	0. 26500E-01	0. 66900E-02	0. 33450E-03	10115
0. 10700E-02	0. 25000E-03	0. 16000E-04	0. 14000E-05	10116
0. 55900E-03	0. 35000E-03	0. 12400E-04	0. 14000E-05	10118
0. 65000E-04	0. 34000E-05	0. 41100E-06	0. 20550E-07	10138
0. 55200E-02	0. 37000E-03	0. 55300E-04	0. 32000E-05	10140
0. 14700E-06	0. 45000E-07	0. 28310E-07	0. 14312E-08	10137
0. 32000E+00	0. 70000E-01	0. 67500E-02	0. 34000E-03	10159
0. 69000E-02	0. 11040E-02	0. 98655E-04	0. 59193E-05	10207
0. 28600E-01	0. 14300E-02	0. 51259E-04	0. 25630E-05	10208
0. 84100E-01	0. 42050E-02	0. 52964E-03	0. 26482E-04	10209
0. 25000E-05	0. 70000E-06	0. 98922E-07	0. 17792E-07	10206
0. 19000E-06	0. 39900E-07	0. 20742E-07	0. 70522E-08	10205
0. 13000E-02	0. 65000E-03	0. 10653E-03	0. 53265E-05	10246
0. 12000E-02	0. 14400E-03	0. 31767E-06	0. 44474E-07	10230
0. 86800E-02	0. 78120E-03	0. 31450E-03	0. 15725E-04	10231
0. 39200E-04	0. 31360E-05	0. 48359E-05	0. 53195E-06	10232
0. 15700E+00	0. 78500E-02	0. 29712E-04	0. 14856E-05	10233
0. 58000E-01	0. 29000E-02	0. 90194E-05	0. 45097E-06	10234
0. 18300E-01	0. 14640E-02	0. 62702E-05	0. 10659E-05	10235
0. 13000E+01	0. 65000E-01	0. 56364E-03	0. 28182E-04	10237
0. 67700E+00	0. 33850E-01	0. 15674E-03	0. 78370E-05	10238
0. 23000E-06	0. 85100E-07	0. 18759E-09	0. 52525E-10	10222
0. 38300E-01	0. 34470E-02	0. 75700E-04	0. 51590E-05	10274
0. 35300E-01	0. 14473E-01	0. 66041E-03	0. 33021E-04	10286
0. 49600E-01	0. 24800E-02	0. 56286E-03	0. 28143E-04	10287
0. 43400E-06	0. 23436E-06	0. 63325E-09	0. 12663E-09	10307
0. 86110E-04	0. 17494E-04	0. 31649E-07	0. 13817E-07	10308
0. 40400E-01	0. 20200E-02	0. 45469E-04	0. 22735E-05	10311
0. 57700E-02	0. 28850E-03	0. 74249E-04	0. 12622E-04	10312
0. 13000E-02	0. 49400E-03	0. 41844E-05	0. 79503E-06	10314
0. 18800E+00	0. 48880E-01	0. 11445E-03	0. 80114E-05	10293
0. 16900E-01	0. 13520E-02	0. 19068E-04	0. 95341E-06	10295
0. 22400E+01	0. 40320E+00	0. 44119E-02	0. 22060E-03	10298
0. 19900E-02	0. 75620E-03	0. 63000E-05	0. 25200E-05	10300
0. 11000E-06	0. 72600E-07	0. 37070E-08	0. 13780E-08	10375
0. 24800E-03	0. 96720E-04	0. 87200E-04	0. 43600E-05	10400
0. 17700E-04	0. 44250E-05	0. 21067E-05	0. 10534E-06	10466
0. 14900E-04	0. 84930E-05	0. 76362E-07	0. 19090E-07	10275
0. 47300E-03	0. 56760E-04	0. 12604E-05	0. 15125E-06	10278
0. 40000E+00	0. 56000E-01	0. 19950E-01	0. 99751E-03	10281
0. 20600E+00	0. 14420E-01	0. 67682E-02	0. 33841E-03	10282



0. 18881E-01	0. 94405E-03	0. 17149E-04	0. 10289E-05	10290
0. 25000E+02	0. 12500E+01	0. 19034E-01	0. 95170E-03	10304
0. 60900E-02	0. 30450E-03	0. 84350E-06	0. 30366E-06	10305
0. 11000E-02	0. 55000E-04	0. 68040E-07	0. 34020E-08	10303
0. 45557E-02	0. 22778E-03	0. 34294E-06	0. 37724E-07	10306
0. 11000E+02	0. 55000E+00	0. 13585E-01	0. 67925E-03	10406
0. 17400E-01	0. 87000E-03	0. 23940E-03	0. 11970E-04	10387
0. 13900E-03	0. 69500E-05	0. 92494E-07	0. 46247E-08	10329
0. 36000E-01	0. 97200E-02	0. 13658E-03	0. 10927E-04	10330
0. 31800E-02	0. 13674E-02	0. 76473E-05	0. 91767E-06	10335
0. 13000E-03	0. 16900E-04	0. 38666E-06	0. 13146E-06	10350
0. 18226E-01	0. 71080E-02	0. 39709E-04	0. 19855E-05	10353
0. 61159E-02	0. 10397E-02	0. 16690E-04	0. 60084E-05	10363
0. 19600E+02	0. 11760E+01	0. 59441E-01	0. 29721E-02	10392
0. 68500E-01	0. 68500E-02	0. 63841E-03	0. 38304E-04	10394
0. 33300E+00	0. 16650E-01	0. 15138E-02	0. 75690E-04	10395
0. 15200E+01	0. 76000E-01	0. 21975E-02	0. 10988E-03	10396
0. 19100E-02	0. 63030E-03	0. 13600E-04	0. 23120E-05	10397
0. 24412E+01	0. 12206E+00	0. 50714E-03	0. 25357E-04	10438
0. 32000E-01	0. 80000E-02	0. 63466E-05	0. 88852E-06	10440
0. 31154E-02	0. 10593E-02	0. 47066E-05	0. 65892E-06	10441
0. 70400E-03	0. 21824E-03	0. 29013E-05	0. 29013E-06	10443
0. 28670E-02	0. 83143E-03	0. 88176E-05	0. 52906E-06	10444
0. 60910E-01	0. 36546E-02	0. 11980E-03	0. 71879E-05	10445
0. 71600E+00	0. 35800E-01	0. 30320E-02	0. 15160E-03	10446
0. 20420E+00	0. 10210E-01	0. 14968E-02	0. 74840E-04	10447
0. 26340E-03	0. 65850E-04	0. 75521E-06	0. 26432E-06	10448
0. 18400E-01	0. 92000E-03	0. 42145E-04	0. 21073E-05	10556
0. 15501E-04	0. 76962E-06	0. 11213E-07	0. 95778E-09	10501
0. 33724E-06	0. 14839E-06	0. 71962E-08	0. 10624E-08	10503
0. 12100E-05	0. 96800E-07	0. 24146E-08	0. 26561E-09	10520
0. 69622E-05	0. 34811E-06	0. 40389E-08	0. 52506E-09	10521
0. 16000E-05	0. 11200E-06	0. 76151E-08	0. 38076E-09	10522
0. 58300E-05	0. 29150E-06	0. 33196E-08	0. 26557E-09	10523
0. 27600E-05	0. 13800E-06	0. 76016E-08	0. 53211E-09	10524
0. 21400E-03	0. 10700E-04	0. 24019E-06	0. 12010E-07	10525
0. 11900E-01	0. 59500E-03	0. 17148E-04	0. 85742E-06	10526
0. 30205E-05	0. 21144E-06	0. 30775E-08	0. 21543E-09	10527
0. 17300E-02	0. 27680E-03	0. 89462E-05	0. 80516E-06	10528
0. 23000E-01	0. 25300E-02	0. 45064E-03	0. 27038E-04	10529
0. 41900E-02	0. 41900E-03	0. 65863E-04	0. 39518E-05	10530
0. 29900E-01	0. 14950E-02	0. 22343E-03	0. 11172E-04	10531
0. 80055E+00	0. 80055E-01	0. 35723E-02	0. 17862E-03	10532
0. 79700E+00	0. 39850E-01	0. 33600E-02	0. 16800E-03	10533
0. 15000E-04	0. 75000E-06	0. 38949E-07	0. 19475E-08	10557
0. 87000E-06	0. 11310E-06	0. 35493E-08	0. 31943E-09	10564
0. 93700E-07	0. 30000E-07	0. 14600E-08	0. 19000E-09	10567
0. 31200E-01	0. 28080E-02	0. 10300E-02	0. 51500E-04	10571
0. 95000E-02	0. 25700E-02	0. 29600E-03	0. 17800E-04	10572
0. 83000E-03	0. 23200E-03	0. 95100E-05	0. 66600E-06	10575
0. 22400E+00	0. 49280E-01	0. 60987E-03	0. 30494E-04	10604
0. 71800E-02	0. 86160E-03	0. 18807E-04	0. 15045E-05	10605
0. 35400E-05	0. 77880E-06	0. 57321E-07	0. 57321E-08	10596
0. 57200E-02	0. 21164E-02	0. 78479E-04	0. 70632E-05	10681
0. 43300E-02	0. 15155E-02	0. 11932E-03	0. 59660E-05	10682
0. 13600E-05	0. 81600E-06	0. 22000E-08	0. 26400E-09	10332
0. 22200E-06	0. 16700E-06	0. 10100E-08	0. 16100E-09	10333
0. 18600E-02	0. 10044E-02	0. 19975E-04	0. 17978E-05	10338
0. 12600E-02	0. 12600E-03	0. 67033E-05	0. 73736E-06	10553
0. 77200E-03	0. 61760E-04	0. 46280E-05	0. 37024E-06	10554
0. 74800E-05	0. 67320E-06	0. 63180E-08	0. 50544E-09	10645
0. 20606E-06	0. 10303E-06	0. 77671E-09	0. 11651E-09	10646
0. 10800E-01	0. 54000E-03	0. 37415E-04	0. 18707E-05	10647

0. 37200E+02	0. 18600E+01	0. 56820E-01	0. 28410E-02	10672
0. 93100E-02	0. 46550E-03	0. 28690E-03	0. 14345E-04	10758
0. 14900E+01	0. 74500E-01	0. 24668E-01	0. 12334E-02	10761
0. 11900E+00	0. 59500E-02	0. 13050E-02	0. 65250E-04	10762
0. 75200E-07	0. 43616E-07	0. 40517E-08	0. 82469E-09	10727
0. 25000E-03	0. 35000E-04	0. 32446E-04	0. 22712E-05	10729
0. 28500E-04	0. 37050E-05	0. 41747E-06	0. 25048E-07	10730
0. 87400E-03	0. 30590E-03	0. 14185E-04	0. 11348E-05	10732
0. 26300E-04	0. 12624E-04	0. 21114E-07	0. 52784E-08	10808



## CORRELATION RESULTS

Nuclides Tested for Correlation are 144-CE and 239-PU

Test made on 21-SEP-84

Sorting Criteria are :

PWR

Number of entries in the fit is 258

Zero Offset Value, B0, is  $-2.95328E-10$

Correlation Ratio, B1, is  $9.97734E-03$

Standard Deviation in B0 is  $6.75755E-10$

Standard Deviation in B1 is  $1.83386E-03$

F-TEST Value is 33.331

Confidence Level for this Correlation is: 99. %

PWR

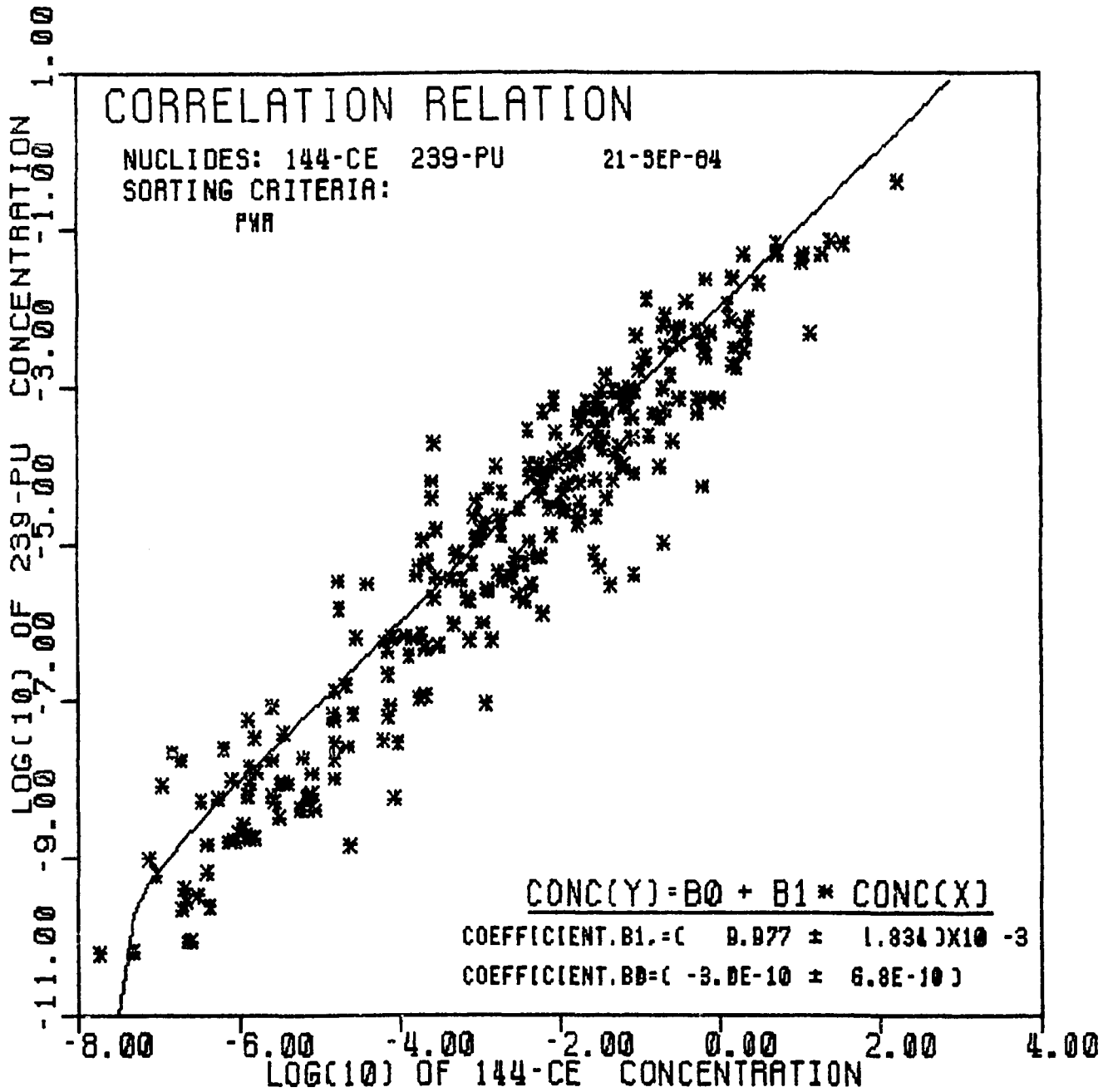
0. 14000E+01	0. 20000E+00	0. 69000E-02	0. 34500E-03	9928
0. 32000E+01	0. 30000E+00	0. 20400E-01	0. 10200E-02	9929
0. 22300E-04	0. 53000E-05	0. 26000E-07	0. 20000E-08	7269
0. 40000E-05	0. 80000E-06	0. 88000E-08	0. 60000E-09	6956
0. 61600E-04	0. 31000E-05	0. 32000E-07	0. 20000E-08	6955
0. 13000E-05	0. 20000E-06	0. 15000E-07	0. 20000E-08	6724
0. 19000E-03	0. 40000E-04	0. 67000E-06	0. 60000E-07	6725
0. 63500E-05	0. 63000E-06	0. 19000E-07	0. 10000E-08	6728
0. 10900E-05	0. 39000E-06	0. 27000E-08	0. 30000E-09	6730
0. 14900E-05	0. 81000E-06	0. 35000E-07	0. 30000E-08	7140
0. 21000E-03	0. 10500E-04	0. 12000E-06	0. 20000E-07	T089
0. 15500E-05	0. 80000E-07	0. 18000E-08	0. 10000E-09	6855
0. 20900E-04	0. 10450E-05	0. 16000E-06	0. 10000E-07	7164
0. 35000E-05	0. 45000E-06	0. 92000E-08	0. 10000E-08	7130
0. 39800E-06	0. 16000E-06	0. 15000E-08	0. 60000E-09	7050
0. 13900E-04	0. 70000E-05	0. 61000E-07	0. 40000E-08	6843
0. 25900E-05	0. 51000E-06	0. 62000E-08	0. 31000E-09	7049
0. 85000E-05	0. 19000E-05	0. 41000E-08	0. 40000E-09	T098
0. 12100E-05	0. 20000E-06	0. 62000E-08	0. 70000E-09	6842
0. 14800E-04	0. 74000E-06	0. 56400E-07	0. 79000E-08	7655
0. 80300E-05	0. 12800E-05	0. 66200E-08	0. 40000E-09	7897
0. 17300E-04	0. 90000E-06	0. 33300E-05	0. 12000E-05	7650
0. 94400E-04	0. 63000E-05	0. 29400E-07	0. 15000E-08	7896
0. 17000E-03	0. 90000E-05	0. 10900E-06	0. 90000E-08	7440
0. 14100E-02	0. 70500E-04	0. 59300E-06	0. 29650E-07	7567
0. 37800E-02	0. 13000E-02	0. 18300E-05	0. 91500E-07	7892
0. 23400E-04	0. 12000E-05	0. 14600E-08	0. 29000E-09	7562
0. 74000E-04	0. 37000E-05	0. 88300E-07	0. 44150E-08	7888
0. 14800E-04	0. 18000E-05	0. 13500E-06	0. 13000E-07	7199
0. 31600E-05	0. 99000E-06	0. 87900E-08	0. 60000E-09	7385
0. 14400E-04	0. 72000E-06	0. 69600E-07	0. 34800E-08	7386
0. 12500E-05	0. 17000E-06	0. 63200E-08	0. 32000E-09	7432
0. 13400E-05	0. 52000E-06	0. 90400E-08	0. 45000E-09	7648
0. 12300E-05	0. 21000E-06	0. 57900E-07	0. 28950E-08	8026
0. 17200E+03	0. 10000E+02	0. 41000E+00	0. 20500E-01	9034
0. 77000E-03	0. 90000E-04	0. 60000E-06	0. 40000E-07	9652
0. 74000E-06	0. 70000E-07	0. 16400E-08	0. 82000E-10	9760
0. 19300E-06	0. 25000E-07	0. 22500E-09	0. 17000E-10	9759
0. 31000E-06	0. 20000E-07	0. 33900E-09	0. 24000E-10	9761
0. 39900E-06	0. 19950E-07	0. 66000E-09	0. 33000E-10	9762
0. 42000E-01	0. 17000E-01	0. 45000E-03	0. 22500E-04	9502
0. 55000E-06	0. 30000E-06	0. 57200E-08	0. 30017E-09	9505
0. 64000E-06	0. 35000E-06	0. 25600E-07	0. 13000E-08	9509
0. 59300E-02	0. 56000E-03	0. 70000E-05	0. 35000E-06	9213
0. 19000E+00	0. 40000E-01	0. 40000E-03	0. 30000E-04	6859
0. 52000E-01	0. 90000E-02	0. 13000E-03	0. 20000E-04	T096
0. 26600E-03	0. 47000E-04	0. 19000E-03	0. 20000E-04	T071
0. 47300E-01	0. 31000E-01	0. 64000E-04	0. 70000E-05	T073
0. 41000E-02	0. 23000E-02	0. 27000E-03	0. 40000E-04	T074
0. 26200E+00	0. 15000E-01	0. 14000E-02	0. 70000E-04	9245
0. 70000E-01	0. 14000E-01	0. 55800E-03	0. 89000E-04	6848
0. 71000E-04	0. 30000E-04	0. 22000E-06	0. 30000E-07	T041
0. 30900E-03	0. 20000E-03	0. 49700E-06	0. 79000E-07	7288
0. 28600E-03	0. 18000E-03	0. 15000E-04	0. 50000E-05	6957
0. 37000E-01	0. 17000E-01	0. 22000E-03	0. 40000E-04	6738
0. 15600E+01	0. 78000E-01	0. 31000E-02	0. 20000E-03	7148
0. 12900E+00	0. 11000E-01	0. 23200E-02	0. 15000E-03	7066
0. 16000E-02	0. 30000E-03	0. 92000E-04	0. 15000E-04	T077
0. 84600E-01	0. 41000E-01	0. 22000E-03	0. 20000E-04	7149
0. 45000E-01	0. 10000E-01	0. 30000E-05	0. 15000E-06	T095
0. 17000E-02	0. 10000E-02	0. 22000E-04	0. 30000E-05	T040

0. 74300E-01	0. 25700E-01	0. 72100E-03	0. 36050E-04	7921
0. 79400E-01	0. 43800E-01	0. 97000E-03	0. 89000E-04	7919
0. 93000E-03	0. 62000E-04	0. 34500E-04	0. 18000E-05	7188
0. 20800E+00	0. 45000E-01	0. 10000E-04	0. 10000E-05	7606
0. 13000E+00	0. 82000E-01	0. 13000E-01	0. 65000E-03	7451
0. 29100E+00	0. 14400E+00	0. 56300E-02	0. 28150E-03	7595
0. 23500E-01	0. 11750E-02	0. 49000E-03	0. 24500E-04	10007
0. 25000E-06	0. 20000E-07	0. 91000E-10	0. 15000E-10	10008
0. 70000E-04	0. 10000E-04	0. 43000E-06	0. 21500E-07	10010
0. 50000E-03	0. 30000E-03	0. 70000E-05	0. 10000E-05	10011
0. 94700E-03	0. 47000E-03	0. 12000E-04	0. 20000E-05	7154
0. 17800E-01	0. 20000E-02	0. 42000E-03	0. 40000E-04	6841
0. 10500E+00	0. 11000E-01	0. 16400E-02	0. 82000E-04	7077
0. 14000E-01	0. 60000E-02	0. 10000E-03	0. 20000E-04	T042
0. 53000E+01	0. 30000E+00	0. 63000E-01	0. 70000E-02	T079
0. 40000E-01	0. 20000E-01	0. 14000E-02	0. 20000E-03	T034
0. 95000E-01	0. 12000E-01	0. 45000E-02	0. 50000E-03	T075
0. 64000E-02	0. 20000E-02	0. 47000E-03	0. 60000E-04	T080
0. 46000E-02	0. 20000E-02	0. 66000E-05	0. 90000E-06	T035
0. 45400E-02	0. 62000E-03	0. 72000E-04	0. 40000E-05	7147
0. 19500E-03	0. 12000E-03	0. 11000E-04	0. 60000E-06	7157
0. 19000E-02	0. 12000E-02	0. 12400E-04	0. 62000E-06	7186
0. 17000E-01	0. 50000E-02	0. 11900E-03	0. 22000E-04	6844
0. 63000E+00	0. 26000E+00	0. 53000E-04	0. 50000E-05	T043
0. 25300E-05	0. 21000E-06	0. 17600E-07	0. 80000E-08	7439
0. 31200E-01	0. 18000E-01	0. 63900E-03	0. 32000E-04	7591
0. 91100E-01	0. 11300E-01	0. 88000E-03	0. 88000E-04	7593
0. 10100E+01	0. 50500E-01	0. 71500E-03	0. 36000E-04	8003
0. 12100E-02	0. 71000E-03	0. 17400E-04	0. 27000E-05	7691
0. 81400E-04	0. 41600E-04	0. 63100E-06	0. 10700E-06	8020
0. 10000E-01	0. 33000E-02	0. 27600E-04	0. 44000E-05	7586
0. 12600E-01	0. 19000E-02	0. 55400E-04	0. 11600E-04	7676
0. 21000E+01	0. 15000E+00	0. 46200E-01	0. 23100E-02	8038
0. 69200E+00	0. 62000E-01	0. 22900E-01	0. 20000E-02	8028
0. 16100E-03	0. 50000E-04	0. 38600E-05	0. 39000E-06	7398
0. 22000E+00	0. 11000E-01	0. 83000E-02	0. 60000E-03	T102
0. 26700E+00	0. 33000E-01	0. 20000E-03	0. 80000E-04	T081
0. 88600E-01	0. 44300E-02	0. 40000E-05	0. 40000E-06	T082
0. 16700E+01	0. 83500E-01	0. 17000E-02	0. 20000E-03	T083
0. 14100E+02	0. 70500E+00	0. 47000E-02	0. 50000E-03	T084
0. 13800E+00	0. 70000E-02	0. 23000E-03	0. 11500E-04	6727
0. 12000E+02	0. 30000E+01	0. 48000E-01	0. 60000E-02	T044
0. 21000E+01	0. 90000E+00	0. 59000E-02	0. 70000E-03	T045
0. 33800E+00	0. 10000E+00	0. 57200E-02	0. 29000E-03	7694
0. 26300E-02	0. 13150E-03	0. 46300E-05	0. 23150E-06	7893
0. 45800E-03	0. 23000E-04	0. 33500E-05	0. 23000E-06	7894
0. 49400E-07	0. 25000E-08	0. 66900E-10	0. 33450E-11	C001
0. 18000E-07	0. 32000E-08	0. 63700E-10	0. 10800E-10	C002
0. 88700E-01	0. 62000E-02	0. 77900E-04	0. 38950E-05	10090
0. 53000E+00	0. 26500E-01	0. 67400E-03	0. 33700E-04	10083
0. 69300E+00	0. 34650E-01	0. 71500E-03	0. 35750E-04	10082
0. 18700E-01	0. 93500E-03	0. 43700E-03	0. 21850E-04	10056
0. 20800E-01	0. 10400E-02	0. 36300E-03	0. 18150E-04	10057
0. 13700E-05	0. 13000E-06	0. 19150E-08	0. 14180E-09	10058
0. 96850E-06	0. 16038E-06	0. 20750E-08	0. 17308E-09	10059
0. 61800E-01	0. 30900E-02	0. 87000E-03	0. 46000E-04	10062
0. 82000E-06	0. 12000E-06	0. 97100E-08	0. 48550E-09	10063
0. 90000E-03	0. 11000E-03	0. 11200E-04	0. 11000E-05	10064
0. 29000E-01	0. 16000E-02	0. 20100E-03	0. 10050E-04	10066
0. 42800E-02	0. 21400E-03	0. 10400E-04	0. 52000E-06	10013
0. 80400E-02	0. 40200E-03	0. 13000E-04	0. 65000E-06	10014
0. 35300E-02	0. 27000E-03	0. 53000E-05	0. 60000E-06	10015
0. 25400E-02	0. 12700E-03	0. 37200E-05	0. 28000E-06	10016

0. 55000E+01	0. 70000E+00	0. 46200E-01	0. 23100E-02	9974
0. 60100E+00	0. 30050E-01	0. 40600E-02	0. 20300E-03	9973
0. 12000E-01	0. 30000E-02	0. 14800E-03	0. 74000E-05	10026
0. 32000E-01	0. 60000E-02	0. 51000E-03	0. 25500E-04	10027
0. 28000E-01	0. 15000E-01	0. 73300E-05	0. 36650E-06	9963
0. 22700E+00	0. 22000E-01	0. 50100E-03	0. 25050E-04	10143
0. 73000E-02	0. 36500E-03	0. 28100E-04	0. 14050E-05	10144
0. 64900E-01	0. 32450E-02	0. 99300E-04	0. 49650E-05	10145
0. 59900E-03	0. 15000E-03	0. 33600E-05	0. 66000E-06	10146
0. 56400E-05	0. 22000E-05	0. 43100E-08	0. 26000E-09	10121
0. 11800E-03	0. 59000E-05	0. 65300E-06	0. 32650E-07	10072
0. 82000E-05	0. 70000E-06	0. 12000E-07	0. 10000E-08	10079
0. 55000E+00	0. 17000E+00	0. 45500E-03	0. 22750E-04	10074
0. 20500E+01	0. 10250E+00	0. 27600E-02	0. 13800E-03	10075
0. 97000E+00	0. 61000E+00	0. 65800E-03	0. 32900E-04	10077
0. 72000E-04	0. 20000E-04	0. 63500E-07	0. 31750E-08	10078
0. 88700E-02	0. 44350E-03	0. 58800E-03	0. 29400E-04	10108
0. 22700E-03	0. 37000E-04	0. 60200E-05	0. 30100E-06	10110
0. 17400E-03	0. 26000E-04	0. 52100E-05	0. 37000E-06	10111
0. 28700E-03	0. 17000E-03	0. 37000E-05	0. 81000E-06	10113
0. 88200E-02	0. 44100E-03	0. 71300E-03	0. 35650E-04	10114
0. 53000E+00	0. 26500E-01	0. 52100E-02	0. 26050E-03	10115
0. 10700E-02	0. 25000E-03	0. 13600E-04	0. 13000E-05	10116
0. 55900E-03	0. 35000E-03	0. 73100E-05	0. 11000E-05	10118
0. 65000E-04	0. 34000E-05	0. 56200E-06	0. 28100E-07	10138
0. 55200E-02	0. 37000E-03	0. 10400E-03	0. 52000E-05	10140
0. 14700E-06	0. 45000E-07	0. 22422E-07	0. 11354E-08	10137
0. 32000E+00	0. 70000E-01	0. 35300E-02	0. 17650E-03	10159
0. 69000E-02	0. 11040E-02	0. 77008E-04	0. 46205E-05	10207
0. 28600E-01	0. 14300E-02	0. 63565E-04	0. 31783E-05	10208
0. 84100E-01	0. 42050E-02	0. 39523E-03	0. 19761E-04	10209
0. 25000E-05	0. 70000E-06	0. 85807E-07	0. 16722E-07	10206
0. 19000E-06	0. 39900E-07	0. 17599E-07	0. 65116E-08	10205
0. 13000E-02	0. 65000E-03	0. 48362E-04	0. 24181E-05	10246
0. 12000E-02	0. 14400E-03	0. 92655E-07	0. 24090E-07	10230
0. 86800E-02	0. 78120E-03	0. 11617E-03	0. 92939E-05	10231
0. 39200E-04	0. 31360E-05	0. 30430E-05	0. 42602E-06	10232
0. 15700E+00	0. 78500E-02	0. 45056E-03	0. 22528E-04	10233
0. 58000E-01	0. 29000E-02	0. 17160E-03	0. 85800E-05	10234
0. 18300E-01	0. 14640E-02	0. 20570E-04	0. 18513E-05	10235
0. 13000E+01	0. 65000E-01	0. 11122E-01	0. 55610E-03	10237
0. 67700E+00	0. 33850E-01	0. 29856E-02	0. 14928E-03	10238
0. 23000E-06	0. 85100E-07	0. 88051E-10	0. 36101E-10	10222
0. 38300E-01	0. 34470E-02	0. 36600E-03	0. 18300E-04	10274
0. 35300E-01	0. 14473E-01	0. 84859E-03	0. 42430E-04	10286
0. 49600E-01	0. 24800E-02	0. 86772E-03	0. 43386E-04	10287
0. 43400E-06	0. 23436E-06	0. 25330E-09	0. 81056E-10	10307
0. 86110E-04	0. 17494E-04	0. 56464E-08	0. 79050E-09	10308
0. 40400E-01	0. 20200E-02	0. 38291E-04	0. 19146E-05	10311
0. 57700E-02	0. 28850E-03	0. 50552E-04	0. 96050E-05	10312
0. 13000E-02	0. 49400E-03	0. 24345E-05	0. 60863E-06	10314
0. 18800E+00	0. 48880E-01	0. 92536E-04	0. 64775E-05	10293
0. 16900E-01	0. 13520E-02	0. 17648E-04	0. 88240E-06	10295
0. 22400E+01	0. 40320E+00	0. 39737E-02	0. 19869E-03	10298
0. 19900E-02	0. 75620E-03	0. 32800E-05	0. 18040E-05	10300
0. 11000E-06	0. 72600E-07	0. 84642E-08	0. 21534E-08	10375
0. 24800E-03	0. 96720E-04	0. 37806E-04	0. 18903E-05	10400
0. 17700E-04	0. 44250E-05	0. 14989E-05	0. 89931E-07	10466
0. 14900E-04	0. 84930E-05	0. 30044E-07	0. 12318E-07	10275
0. 47300E-03	0. 56760E-04	0. 93230E-06	0. 12120E-06	10278
0. 40000E+00	0. 56000E-01	0. 11797E-01	0. 58985E-03	10281
0. 20600E+00	0. 14420E-01	0. 58205E-02	0. 29103E-03	10282
0. 18881E-01	0. 94405E-03	0. 13434E-03	0. 67170E-05	10290

0. 25000E+02	0. 12500E+01	0. 69211E-01	0. 34606E-02	10304
0. 60900E-02	0. 30450E-03	0. 12934E-05	0. 38801E-06	10305
0. 11000E-02	0. 55000E-04	0. 95896E-06	0. 47948E-07	10303
0. 45557E-02	0. 22778E-03	0. 29425E-05	0. 14713E-06	10306
0. 11000E+02	0. 55000E+00	0. 37089E-01	0. 18545E-02	10406
0. 17400E-01	0. 87000E-03	0. 30106E-03	0. 15053E-04	10387
0. 13900E-03	0. 69500E-05	0. 61265E-06	0. 30633E-07	10329
0. 36000E-01	0. 97200E-02	0. 15818E-03	0. 11073E-04	10330
0. 31800E-02	0. 13674E-02	0. 27524E-04	0. 16515E-05	10335
0. 13000E-03	0. 16900E-04	0. 37529E-06	0. 13135E-06	10350
0. 18226E-01	0. 71080E-02	0. 59158E-04	0. 29579E-05	10353
0. 61159E-02	0. 10397E-02	0. 61914E-04	0. 11764E-04	10363
0. 19600E+02	0. 11760E+01	0. 46852E-01	0. 23426E-02	10392
0. 68500E-01	0. 68500E-02	0. 57706E-03	0. 40394E-04	10394
0. 33300E+00	0. 16650E-01	0. 69386E-03	0. 41632E-04	10395
0. 15200E+01	0. 76000E-01	0. 18767E-02	0. 93835E-04	10396
0. 19100E-02	0. 63030E-03	0. 43100E-04	0. 43100E-05	10397
0. 24412E+01	0. 12206E+00	0. 75488E-02	0. 37744E-03	10438
0. 32000E-01	0. 80000E-02	0. 50773E-05	0. 81236E-06	10440
0. 31154E-02	0. 10593E-02	0. 20999E-05	0. 44097E-06	10441
0. 70400E-03	0. 21824E-03	0. 20225E-05	0. 24270E-06	10443
0. 28670E-02	0. 83143E-03	0. 68388E-05	0. 41033E-06	10444
0. 60910E-01	0. 36546E-02	0. 90991E-04	0. 63694E-05	10445
0. 71600E+00	0. 35800E-01	0. 23334E-02	0. 11667E-03	10446
0. 20420E+00	0. 10210E-01	0. 94083E-03	0. 47041E-04	10447
0. 26340E-03	0. 65850E-04	0. 20532E-05	0. 45171E-06	10448
0. 18400E-01	0. 92000E-03	0. 30998E-04	0. 15499E-05	10556
0. 15501E-04	0. 76962E-06	0. 10392E-07	0. 11152E-08	10501
0. 33724E-06	0. 14839E-06	0. 52584E-08	0. 92706E-09	10503
0. 12100E-05	0. 96800E-07	0. 20035E-08	0. 24042E-09	10520
0. 69622E-05	0. 34811E-06	0. 56482E-08	0. 62130E-09	10521
0. 16000E-05	0. 11200E-06	0. 12380E-07	0. 61902E-09	10522
0. 58300E-05	0. 29150E-06	0. 41818E-08	0. 33454E-09	10523
0. 27600E-05	0. 13800E-06	0. 53302E-08	0. 42642E-09	10524
0. 21400E-03	0. 10700E-04	0. 46385E-06	0. 23193E-07	10525
0. 11900E-01	0. 59500E-03	0. 26100E-04	0. 13050E-05	10526
0. 30205E-05	0. 21144E-06	0. 33240E-08	0. 19944E-09	10527
0. 17300E-02	0. 27680E-03	0. 44452E-05	0. 57788E-06	10528
0. 23000E-01	0. 25300E-02	0. 62649E-03	0. 31325E-04	10529
0. 41900E-02	0. 41900E-03	0. 70030E-04	0. 42018E-05	10530
0. 29900E-01	0. 14950E-02	0. 22206E-04	0. 17765E-05	10531
0. 80055E+00	0. 80055E-01	0. 47441E-02	0. 23721E-03	10532
0. 79700E+00	0. 39850E-01	0. 49366E-02	0. 24683E-03	10533
0. 15000E-04	0. 75000E-06	0. 18672E-07	0. 93362E-09	10557
0. 87000E-06	0. 11310E-06	0. 16889E-08	0. 20267E-09	10564
0. 93700E-07	0. 30000E-07	0. 61100E-09	0. 12200E-09	10567
0. 31200E-01	0. 28080E-02	0. 30500E-03	0. 15250E-04	10571
0. 95000E-02	0. 25700E-02	0. 94700E-04	0. 85200E-05	10572
0. 83000E-03	0. 23200E-03	0. 53000E-05	0. 53000E-06	10575
0. 22400E+00	0. 49280E-01	0. 31393E-02	0. 15697E-03	10604
0. 71800E-02	0. 86160E-03	0. 82576E-04	0. 41288E-05	10605
0. 35400E-05	0. 77880E-06	0. 38764E-07	0. 46516E-08	10596
0. 57200E-02	0. 21164E-02	0. 40651E-04	0. 48781E-05	10681
0. 43300E-02	0. 15155E-02	0. 10238E-03	0. 51188E-05	10682
0. 13600E-05	0. 81600E-06	0. 18000E-08	0. 25200E-09	10332
0. 22200E-06	0. 16700E-06	0. 28200E-09	0. 84800E-10	10333
0. 18600E-02	0. 10044E-02	0. 19056E-04	0. 17151E-05	10338
0. 12600E-02	0. 12600E-03	0. 26059E-05	0. 41694E-06	10553
0. 77200E-03	0. 61760E-04	0. 18716E-05	0. 24330E-06	10554
0. 74800E-05	0. 67320E-06	0. 61138E-08	0. 48911E-09	10645
0. 20606E-06	0. 10303E-06	0. 41363E-09	0. 86863E-10	10646
0. 10800E-01	0. 54000E-03	0. 44440E-04	0. 22220E-05	10647
0. 37200E+02	0. 18600E+01	0. 66258E-01	0. 33129E-02	10672





0. 93100E-02	0. 46550E-03	0. 25471E-03	0. 12735E-04	10758
0. 14900E+01	0. 74500E-01	0. 24373E-01	0. 12186E-02	10761
0. 11900E+00	0. 59500E-02	0. 22508E-02	0. 11254E-03	10762
0. 75200E-07	0. 43616E-07	0. 10093E-08	0. 34637E-09	10727
0. 25000E-03	0. 35000E-04	0. 61797E-04	0. 37078E-05	10729
0. 28500E-04	0. 37050E-05	0. 62420E-06	0. 31210E-07	10730
0. 87400E-03	0. 30590E-03	0. 21769E-04	0. 13061E-05	10732
0. 26300E-04	0. 12624E-04	0. 69675E-07	0. 97545E-08	10808

## CORRELATION RESULTS

Nuclides Tested for Correlation are 144-CE and 241-AM

Test made on 21-SEP-84

Sorting Criteria are :

PWR

Number of entries in the fit is 252

Zero Offset Value, B0, is 1.85218E-10

Correlation Ratio, B1, is 6.84349E-03

Standard Deviation in B0 is 4.52922E-10

Standard Deviation in B1 is 1.06316E-03

F-TEST Value is 49.418

Confidence Level for this Correlation is: 99. %

## PWR

0. 14000E+01	0. 20000E+00	0. 35300E-02	0. 17650E-03	9928
0. 32000E+01	0. 30000E+00	0. 83800E-02	0. 41900E-03	9929
0. 22300E-04	0. 53000E-05	0. 51000E-08	0. 40000E-09	7269
0. 40000E-05	0. 80000E-06	0. 12000E-08	0. 40000E-09	6956
0. 61600E-04	0. 31000E-05	0. 48000E-08	0. 20000E-08	6955
0. 13000E-05	0. 20000E-06	0. 60000E-08	0. 70000E-09	6724
0. 19000E-03	0. 40000E-04	0. 25000E-06	0. 20000E-07	6725
0. 63500E-05	0. 63000E-06	0. 49000E-08	0. 50000E-09	6728
0. 10900E-05	0. 39000E-06	0. 69000E-09	0. 10000E-09	6730
0. 14900E-05	0. 81000E-06	0. 44000E-07	0. 10000E-07	7140
0. 21000E-03	0. 10500E-04	0. 28000E-07	0. 40000E-08	T089
0. 15500E-05	0. 80000E-07	0. 45000E-09	0. 22500E-10	6855
0. 20900E-04	0. 10450E-05	0. 15300E-07	0. 80000E-09	7164
0. 35000E-05	0. 45000E-06	0. 75000E-09	0. 10000E-09	7130
0. 39800E-06	0. 16000E-06	0. 53000E-09	0. 12000E-09	7050
0. 13900E-04	0. 70000E-05	0. 18000E-07	0. 20000E-08	6843
0. 25900E-05	0. 51000E-06	0. 40000E-08	0. 10000E-08	7049
0. 85000E-05	0. 19000E-05	0. 48000E-09	0. 40000E-10	T098
0. 12100E-05	0. 20000E-06	0. 85000E-09	0. 90000E-10	6842
0. 14800E-04	0. 74000E-06	0. 12900E-06	0. 12000E-07	7655
0. 80300E-05	0. 12800E-05	0. 30100E-08	0. 42000E-09	7897
0. 94400E-04	0. 63000E-05	0. 38600E-08	0. 19300E-09	7896
0. 17000E-03	0. 90000E-05	0. 40600E-08	0. 18300E-08	7440
0. 14100E-02	0. 70500E-04	0. 28600E-07	0. 29000E-08	7567
0. 23400E-04	0. 12000E-05	0. 30300E-07	0. 36000E-08	7562
0. 74000E-04	0. 37000E-05	0. 15400E-07	0. 90000E-09	7888
0. 31600E-05	0. 99000E-06	0. 12300E-07	0. 10000E-08	7385
0. 14400E-04	0. 72000E-06	0. 27000E-07	0. 30000E-08	7386
0. 12500E-05	0. 17000E-06	0. 39700E-08	0. 21000E-09	7432
0. 13400E-05	0. 52000E-06	0. 30000E-07	0. 31000E-08	7648
0. 12300E-05	0. 21000E-06	0. 68900E-08	0. 10300E-08	8026
0. 17200E+03	0. 10000E+02	0. 43000E-01	0. 21500E-02	9034
0. 77000E-03	0. 90000E-04	0. 37000E-06	0. 30000E-07	9652
0. 74000E-06	0. 70000E-07	0. 66000E-09	0. 10000E-09	9760
0. 19300E-06	0. 25000E-07	0. 18000E-09	0. 50000E-10	9759
0. 31000E-06	0. 20000E-07	0. 17000E-09	0. 40000E-10	9761
0. 39900E-06	0. 19950E-07	0. 25000E-09	0. 11000E-09	9762
0. 42000E-01	0. 17000E-01	0. 34000E-03	0. 70000E-04	9502
0. 55000E-06	0. 30000E-06	0. 27000E-08	0. 12855E-09	9505
0. 64000E-06	0. 35000E-06	0. 28800E-07	0. 14400E-08	9509
0. 59300E-02	0. 56000E-03	0. 10400E-06	0. 80000E-08	9213
0. 19000E+00	0. 40000E-01	0. 16000E-03	0. 60000E-04	6859
0. 52000E-01	0. 90000E-02	0. 55000E-04	0. 70000E-05	T096
0. 26600E-03	0. 47000E-04	0. 12000E-04	0. 20000E-05	T071
0. 47300E-01	0. 31000E-01	0. 80000E-05	0. 30000E-05	T073
0. 41000E-02	0. 23000E-02	0. 27000E-04	0. 40000E-05	T074
0. 26200E+00	0. 15000E-01	0. 20000E-04	0. 30000E-05	9245
0. 70000E-01	0. 14000E-01	0. 73600E-03	0. 11000E-03	6848
0. 71000E-04	0. 30000E-04	0. 43000E-05	0. 80000E-06	T041
0. 30900E-03	0. 20000E-03	0. 12600E-05	0. 15000E-06	7288
0. 28600E-03	0. 18000E-03	0. 11000E-04	0. 30000E-05	6957
0. 37000E-01	0. 17000E-01	0. 11000E-02	0. 20000E-03	6738
0. 12900E+00	0. 11000E-01	0. 12200E-02	0. 10000E-03	7066
0. 16000E-02	0. 30000E-03	0. 68000E-04	0. 12000E-04	T077
0. 84600E-01	0. 41000E-01	0. 19000E-04	0. 30000E-05	7149
0. 45000E-01	0. 10000E-01	0. 18000E-05	0. 40000E-06	T095
0. 17000E-02	0. 10000E-02	0. 47000E-04	0. 10000E-04	T040
0. 74300E-01	0. 25700E-01	0. 20200E-03	0. 20000E-04	7921
0. 79400E-01	0. 43800E-01	0. 38000E-03	0. 76000E-04	7919
0. 93000E-03	0. 62000E-04	0. 91500E-05	0. 46000E-06	7188
0. 20800E+00	0. 45000E-01	0. 16100E-03	0. 29000E-04	7606

0. 13000E+00	0. 82000E-01	0. 27000E-02	0. 13500E-03	7451
0. 29100E+00	0. 14400E+00	0. 32900E-02	0. 23000E-03	7595
0. 23500E-01	0. 11750E-02	0. 39000E-03	0. 60000E-04	10007
0. 25000E-06	0. 20000E-07	0. 31000E-09	0. 60000E-10	10008
0. 70000E-04	0. 10000E-04	0. 21000E-06	0. 10500E-07	10010
0. 50000E-03	0. 30000E-03	0. 30000E-05	0. 10000E-05	10011
0. 94700E-03	0. 47000E-03	0. 16000E-05	0. 30000E-06	7154
0. 17800E-01	0. 20000E-02	0. 12000E-03	0. 20000E-04	6841
0. 10500E+00	0. 11000E-01	0. 46000E-03	0. 30000E-04	7077
0. 14000E-01	0. 60000E-02	0. 86000E-05	0. 90000E-06	T042
0. 25000E+01	0. 12500E+00	0. 28000E-03	0. 20000E-04	6858
0. 53000E+01	0. 30000E+00	0. 30000E-01	0. 40000E-02	T079
0. 40000E-01	0. 20000E-01	0. 28000E-03	0. 30000E-04	T034
0. 95000E-01	0. 12000E-01	0. 29000E-02	0. 60000E-03	T075
0. 64000E-02	0. 20000E-02	0. 40000E-04	0. 60000E-05	T080
0. 46000E-02	0. 20000E-02	0. 16000E-04	0. 20000E-05	T035
0. 45400E-02	0. 62000E-03	0. 15000E-04	0. 10000E-05	7147
0. 19500E-03	0. 12000E-03	0. 11000E-04	0. 20000E-05	7157
0. 19000E-02	0. 12000E-02	0. 13400E-04	0. 13000E-05	7186
0. 17000E-01	0. 50000E-02	0. 42100E-04	0. 86000E-05	6844
0. 63000E+00	0. 26000E+00	0. 48000E-04	0. 60000E-05	T043
0. 31200E-01	0. 18000E-01	0. 92100E-03	0. 15700E-03	7591
0. 91100E-01	0. 11300E-01	0. 17400E-02	0. 27000E-03	7593
0. 10100E+01	0. 50500E-01	0. 39100E-03	0. 19550E-04	8003
0. 12100E-02	0. 71000E-03	0. 95700E-05	0. 24900E-05	7691
0. 81400E-04	0. 41600E-04	0. 11800E-05	0. 15000E-06	8020
0. 10000E-01	0. 33000E-02	0. 14200E-04	0. 24000E-05	7586
0. 21000E+01	0. 15000E+00	0. 14900E-01	0. 15000E-02	8038
0. 69200E+00	0. 62000E-01	0. 11100E-01	0. 22000E-02	8028
0. 16100E-03	0. 50000E-04	0. 61800E-05	0. 15700E-05	7398
0. 22000E+00	0. 11000E-01	0. 60000E-02	0. 30000E-03	T102
0. 88600E-01	0. 44300E-02	0. 43000E-05	0. 50000E-06	T082
0. 16700E+01	0. 83500E-01	0. 95000E-04	0. 12000E-04	T083
0. 14100E+02	0. 70500E+00	0. 38000E-03	0. 40000E-04	T084
0. 13800E+00	0. 70000E-02	0. 84000E-04	0. 50000E-05	6727
0. 12000E+02	0. 30000E+01	0. 33000E-02	0. 50000E-03	T044
0. 21000E+01	0. 90000E+00	0. 77000E-03	0. 11000E-03	T045
0. 33800E+00	0. 10000E+00	0. 57200E-02	0. 50000E-03	7694
0. 26300E-02	0. 13150E-03	0. 16700E-05	0. 83500E-07	7893
0. 45800E-03	0. 23000E-04	0. 82600E-06	0. 41300E-07	7894
0. 49400E-07	0. 25000E-08	0. 10600E-09	0. 16000E-10	C001
0. 18000E-07	0. 32000E-08	0. 14200E-09	0. 20000E-10	C002
0. 88700E-01	0. 62000E-02	0. 24000E-04	0. 20000E-05	10090
0. 53000E+00	0. 26500E-01	0. 38000E-04	0. 50000E-05	10083
0. 69300E+00	0. 34650E-01	0. 41500E-04	0. 44000E-05	10082
0. 18700E-01	0. 93500E-03	0. 18500E-03	0. 92500E-05	10056
0. 20800E-01	0. 10400E-02	0. 27100E-03	0. 15000E-04	10057
0. 13700E-05	0. 13000E-06	0. 76200E-09	0. 87321E-10	10058
0. 96850E-06	0. 16038E-06	0. 37000E-07	0. 25080E-08	10059
0. 61800E-01	0. 30900E-02	0. 42400E-03	0. 21200E-04	10062
0. 82000E-06	0. 12000E-06	0. 14900E-07	0. 74500E-09	10063
0. 90000E-03	0. 11000E-03	0. 12200E-04	0. 90000E-06	10064
0. 29000E-01	0. 16000E-02	0. 10900E-03	0. 54500E-05	10066
0. 42800E-02	0. 21400E-03	0. 13500E-03	0. 13000E-04	10013
0. 80400E-02	0. 40200E-03	0. 43900E-04	0. 21950E-05	10014
0. 35300E-02	0. 27000E-03	0. 29800E-04	0. 14900E-05	10015
0. 25400E-02	0. 12700E-03	0. 17000E-05	0. 20000E-06	10016
0. 55000E+01	0. 70000E+00	0. 21000E-01	0. 40000E-02	9974
0. 60100E+00	0. 30050E-01	0. 32200E-02	0. 16100E-03	9973
0. 12000E-01	0. 30000E-02	0. 95500E-04	0. 53000E-05	10026
0. 32000E-01	0. 60000E-02	0. 37100E-03	0. 18550E-04	10027
0. 28000E-01	0. 15000E-01	0. 88600E-06	0. 50000E-07	9963
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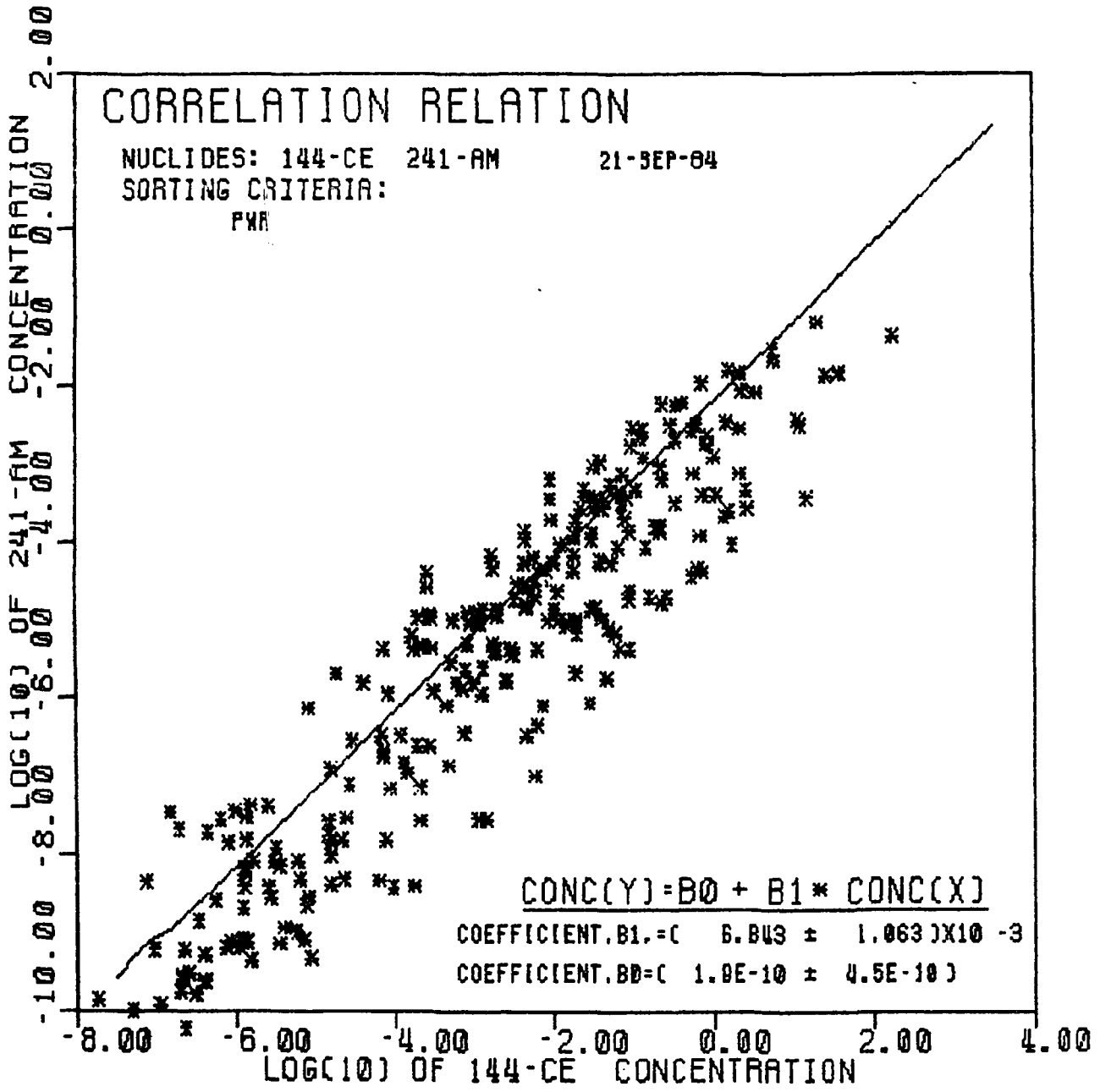
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0. 20500E+01	0. 10250E+00	0. 28600E-02	0. 21000E-03	10075
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0. 17400E-03	0. 26000E-04	0. 43300E-05	0. 37000E-06	10111
0. 28700E-03	0. 17000E-03	0. 44700E-05	0. 90000E-06	10113
0. 88200E-02	0. 44100E-03	0. 65100E-03	0. 32550E-04	10114
0. 53000E+00	0. 26500E-01	0. 27100E-02	0. 13550E-03	10115
0. 10700E-02	0. 25000E-03	0. 11600E-04	0. 11000E-05	10116
0. 55900E-03	0. 35000E-03	0. 10300E-04	0. 14000E-05	10118
0. 65000E-04	0. 34000E-05	0. 33100E-06	0. 19000E-07	10138
0. 55200E-02	0. 37000E-03	0. 65400E-04	0. 32700E-05	10140
0. 14700E-06	0. 45000E-07	0. 35340E-07	0. 17461E-08	10137
0. 32000E+00	0. 70000E-01	0. 20000E-02	0. 40000E-03	10159
0. 69000E-02	0. 11040E-02	0. 34695E-04	0. 34695E-05	10207
0. 28600E-01	0. 14300E-02	0. 13579E-04	0. 16295E-05	10208
0. 84100E-01	0. 42050E-02	0. 13909E-03	0. 69545E-05	10209
0. 25000E-05	0. 70000E-06	0. 41387E-07	0. 12053E-07	10206
0. 19000E-06	0. 39900E-07	0. 21351E-07	0. 86234E-08	10205
0. 13000E-02	0. 65000E-03	0. 13993E-04	0. 83959E-06	10246
0. 86800E-02	0. 78120E-03	0. 10261E-04	0. 21548E-05	10231
0. 39200E-04	0. 31360E-05	0. 16000E-05	0. 28800E-06	10232
0. 15700E+00	0. 78500E-02	0. 20000E-04	0. 20000E-05	10233
0. 58000E-01	0. 29000E-02	0. 68000E-05	0. 34000E-06	10234
0. 18300E-01	0. 14640E-02	0. 22000E-05	0. 66000E-06	10235
0. 13000E+01	0. 65000E-01	0. 21700E-03	0. 10850E-04	10237
0. 67700E+00	0. 33850E-01	0. 12200E-03	0. 85400E-05	10238
0. 23000E-06	0. 85100E-07	0. 63619E-10	0. 24812E-10	10222
0. 38300E-01	0. 34470E-02	0. 55100E-04	0. 38570E-05	10274
0. 35300E-01	0. 14473E-01	0. 29400E-03	0. 14700E-04	10286
0. 49600E-01	0. 24800E-02	0. 54500E-03	0. 10900E-03	10287
0. 43400E-06	0. 23436E-06	0. 19496E-07	0. 10333E-07	10307
0. 86110E-04	0. 17494E-04	0. 69757E-07	0. 27623E-07	10308
0. 40400E-01	0. 20200E-02	0. 10404E-04	0. 52020E-06	10311
0. 57700E-02	0. 28850E-03	0. 20407E-04	0. 10204E-05	10312
0. 13000E-02	0. 49400E-03	0. 25625E-05	0. 48687E-06	10314
0. 18800E+00	0. 48880E-01	0. 16300E-03	0. 53790E-04	10293
0. 16900E-01	0. 13520E-02	0. 68100E-04	0. 61290E-05	10295
0. 22400E+01	0. 40320E+00	0. 87800E-02	0. 43900E-03	10298
0. 19900E-02	0. 75620E-03	0. 11700E-04	0. 24570E-05	10300
0. 21300E-06	0. 55380E-07	0. 29490E-09	0. 56032E-10	10388
0. 11000E-06	0. 72600E-07	0. 12190E-09	0. 54856E-10	10375
0. 24800E-03	0. 96720E-04	0. 39371E-04	0. 19686E-05	10400
0. 17700E-04	0. 44250E-05	0. 20831E-05	0. 10416E-06	10466
0. 14900E-04	0. 84930E-05	0. 14192E-07	0. 49673E-08	10275
0. 47300E-03	0. 56760E-04	0. 14000E-06	0. 26600E-07	10278
0. 40000E+00	0. 56000E-01	0. 61500E-02	0. 86100E-03	10281
0. 20600E+00	0. 14420E-01	0. 95300E-03	0. 47650E-04	10282
0. 18881E-01	0. 94405E-03	0. 68300E-05	0. 21856E-05	10290
0. 25000E+02	0. 12500E+01	0. 13439E-01	0. 67196E-03	10304
0. 60900E-02	0. 30450E-03	0. 46628E-06	0. 14455E-06	10305
0. 11000E-02	0. 55000E-04	0. 29178E-07	0. 14589E-08	10303
0. 45557E-02	0. 22778E-03	0. 33955E-06	0. 30559E-07	10306
0. 11000E+02	0. 55000E+00	0. 36381E-02	0. 18191E-03	10406
0. 17400E-01	0. 87000E-03	0. 12611E-03	0. 75668E-05	10387

0. 13900E-03	0. 69500E-05	0. 11200E-06	0. 47040E-07	10329
0. 36000E-01	0. 97200E-02	0. 58195E-04	0. 34917E-05	10330
0. 31800E-02	0. 13674E-02	0. 16900E-04	0. 22680E-05	10335
0. 13000E-03	0. 16900E-04	0. 15232E-06	0. 62453E-07	10350
0. 18226E-01	0. 71080E-02	0. 10044E-04	0. 70311E-06	10353
0. 61159E-02	0. 10397E-02	0. 41898E-05	0. 20949E-05	10363
0. 19600E+02	0. 11760E+01	0. 66946E-01	0. 22762E-01	10392
0. 68500E-01	0. 68500E-02	0. 32815E-03	0. 65630E-04	10394
0. 33300E+00	0. 16650E-01	0. 32896E-03	0. 39476E-04	10395
0. 15200E+01	0. 76000E-01	0. 25016E-03	0. 15010E-04	10396
0. 19100E-02	0. 63030E-03	0. 41000E-05	0. 12300E-05	10397
0. 24412E+01	0. 12206E+00	0. 46186E-03	0. 23093E-04	10438
0. 32000E-01	0. 80000E-02	0. 14694E-04	0. 39673E-05	10440
0. 31154E-02	0. 10593E-02	0. 37300E-05	0. 89521E-06	10441
0. 70400E-03	0. 21824E-03	0. 13468E-05	0. 55217E-06	10443
0. 28670E-02	0. 83143E-03	0. 44311E-05	0. 13736E-05	10444
0. 60910E-01	0. 36546E-02	0. 84174E-04	0. 10101E-04	10445
0. 71600E+00	0. 35800E-01	0. 39884E-03	0. 19942E-04	10446
0. 20420E+00	0. 10210E-01	0. 13330E-03	0. 10664E-04	10447
0. 26340E-03	0. 65850E-04	0. 24972E-06	0. 11237E-06	10448
0. 18400E-01	0. 92000E-03	0. 97113E-05	0. 48557E-06	10556
0. 15501E-04	0. 76962E-06	0. 41244E-08	0. 77187E-09	10501
0. 33724E-06	0. 14839E-06	0. 14883E-08	0. 32458E-09	10503
0. 12100E-05	0. 96800E-07	0. 21158E-08	0. 23273E-09	10520
0. 69622E-05	0. 34811E-06	0. 84275E-09	0. 15170E-09	10521
0. 16000E-05	0. 11200E-06	0. 83310E-08	0. 41655E-09	10522
0. 58300E-05	0. 29150E-06	0. 83595E-08	0. 41798E-09	10523
0. 27600E-05	0. 13800E-06	0. 28521E-08	0. 25669E-09	10524
0. 21400E-03	0. 10700E-04	0. 74824E-07	0. 37412E-08	10525
0. 11900E-01	0. 59500E-03	0. 10238E-04	0. 51190E-06	10526
0. 30205E-05	0. 21144E-06	0. 81147E-08	0. 40574E-09	10527
0. 17300E-02	0. 27680E-03	0. 50018E-05	0. 55020E-06	10528
0. 23000E-01	0. 25300E-02	0. 46608E-03	0. 23304E-04	10529
0. 41900E-02	0. 41900E-03	0. 54121E-04	0. 27061E-05	10530
0. 29900E-01	0. 14950E-02	0. 13164E-03	0. 65820E-05	10531
0. 80055E+00	0. 80055E-01	0. 23509E-02	0. 35264E-03	10532
0. 79700E+00	0. 39850E-01	0. 17911E-02	0. 89555E-04	10533
0. 15000E-04	0. 75000E-06	0. 99931E-08	0. 49966E-09	10557
0. 87000E-06	0. 11310E-06	0. 76993E-09	0. 92392E-10	10564
0. 93700E-07	0. 30000E-07	0. 62800E-09	0. 69100E-10	10567
0. 31200E-01	0. 28080E-02	0. 27400E-03	0. 13700E-04	10571
0. 95000E-02	0. 25700E-02	0. 54000E-04	0. 59400E-05	10572
0. 83000E-03	0. 23200E-03	0. 49900E-05	0. 34900E-06	10575
0. 22400E+00	0. 49280E-01	0. 64561E-03	0. 32280E-04	10604
0. 71800E-02	0. 86160E-03	0. 36937E-04	0. 62793E-05	10605
0. 35400E-05	0. 77880E-06	0. 73839E-08	0. 28797E-08	10596
0. 57200E-02	0. 21164E-02	0. 29277E-04	0. 38060E-05	10681
0. 43300E-02	0. 15155E-02	0. 11128E-03	0. 55642E-05	10682
0. 13600E-05	0. 81600E-06	0. 16000E-07	0. 16000E-08	10332
0. 22200E-06	0. 16700E-06	0. 61500E-09	0. 11700E-09	10333
0. 18600E-02	0. 10044E-02	0. 42300E-05	0. 15228E-05	10338
0. 12600E-02	0. 12600E-03	0. 11569E-05	0. 17353E-06	10553
0. 77200E-03	0. 61760E-04	0. 22579E-05	0. 18063E-06	10554
0. 74800E-05	0. 67320E-06	0. 23030E-08	0. 80604E-09	10645
0. 20606E-06	0. 10303E-06	0. 26073E-09	0. 99077E-10	10646
0. 10800E-01	0. 54000E-03	0. 23972E-04	0. 11986E-05	10647
0. 37200E+02	0. 18600E+01	0. 15085E-01	0. 90512E-03	10672
0. 93100E-02	0. 46550E-03	0. 19356E-03	0. 96778E-05	10758
0. 14900E+01	0. 74500E-01	0. 15941E-01	0. 79706E-03	10761
0. 11900E+00	0. 59500E-02	0. 21268E-02	0. 10634E-03	10762
0. 75200E-07	0. 43616E-07	0. 46823E-08	0. 79599E-09	10727
0. 25000E-03	0. 35000E-04	0. 26165E-04	0. 13083E-05	10729
0. 28500E-04	0. 37050E-05	0. 29834E-06	0. 17900E-07	10730

0. 87400E-03 0. 30590E-03 0. 13219E-04 0. 92534E-06  
0. 26300E-04 0. 12624E-04 0. 77515E-07 0. 14728E-07

10732  
10808





# CORRELATION RESULTS

Nuclides Tested for Correlation are 144-CE and 244-CM

Test made on 24-SEP-84

Sorting Criteria are :

PWR

Number of entries in the fit is 239

Zero Offset Value, B0, is 1.15167E-10

Correlation Ratio, B1, is 7.07562E-03

Standard Deviation in B0 is 3.79603E-10

Standard Deviation in B1 is 1.19865E-03

F-TEST Value is 40.639

Confidence Level for this Correlation is: 99. %

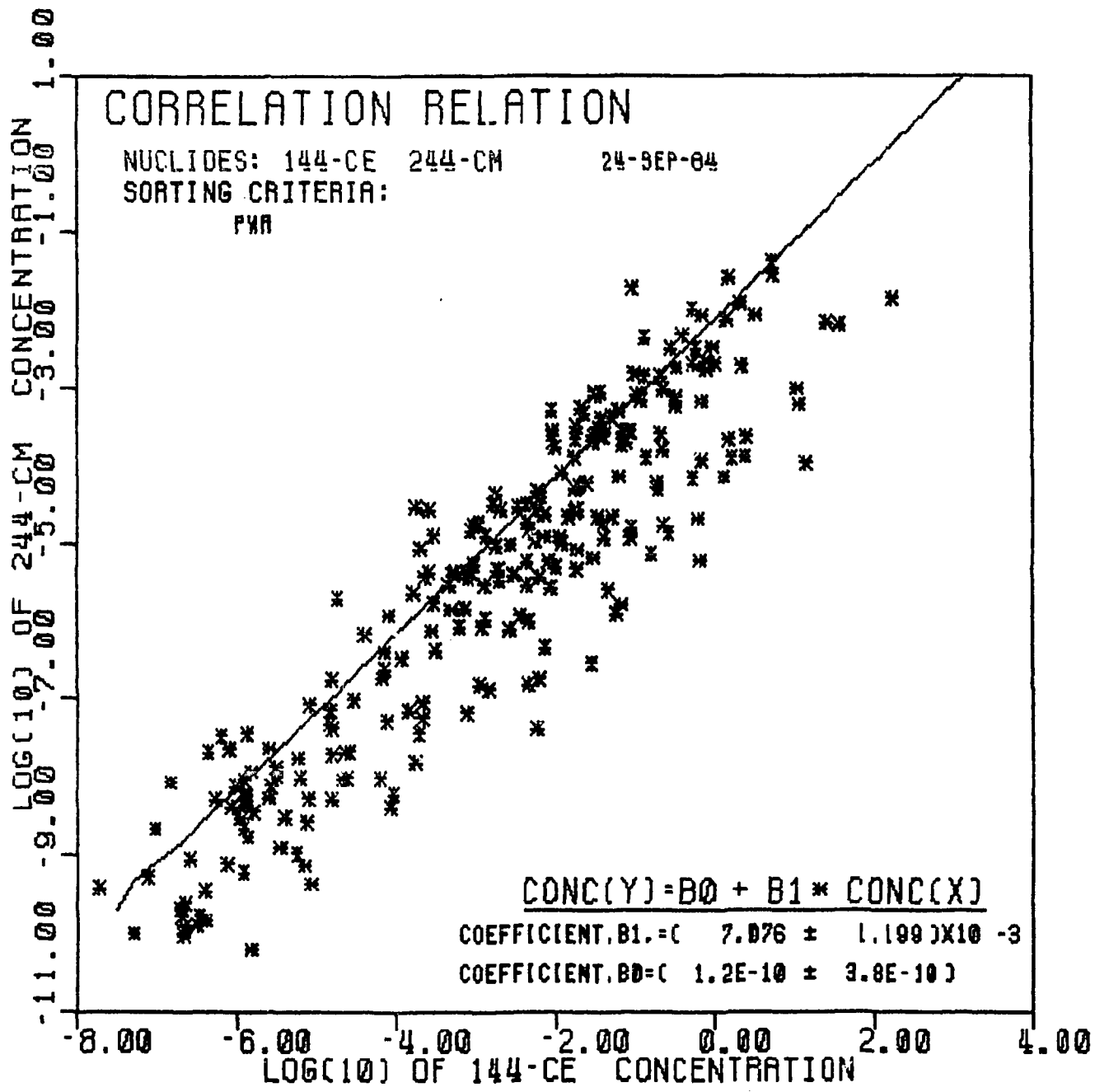
PWR

0. 14000E+01	0. 20000E+00	0. 75100E-02	0. 37550E-03	9928
0. 32000E+01	0. 30000E+00	0. 84500E-02	0. 42250E-03	9929
0. 22300E-04	0. 53000E-05	0. 21000E-07	0. 20000E-08	7269
0. 40000E-05	0. 80000E-06	0. 31000E-08	0. 70000E-09	6956
0. 61600E-04	0. 31000E-05	0. 10000E-07	0. 20000E-08	6955
0. 13000E-05	0. 20000E-06	0. 57000E-08	0. 70000E-09	6724
0. 19000E-03	0. 40000E-04	0. 37000E-07	0. 40000E-08	6725
0. 63500E-05	0. 63000E-06	0. 99000E-08	0. 90000E-09	6728
0. 10900E-05	0. 39000E-06	0. 30000E-08	0. 50000E-09	6730
0. 14900E-05	0. 81000E-06	0. 12000E-07	0. 60000E-08	7140
0. 21000E-03	0. 10500E-04	0. 59000E-07	0. 70000E-08	T089
0. 15500E-05	0. 80000E-07	0. 64000E-10	0. 20000E-10	6855
0. 20900E-04	0. 10450E-05	0. 95000E-08	0. 10000E-08	7164
0. 35000E-05	0. 45000E-06	0. 13000E-08	0. 20000E-09	7130
0. 39800E-06	0. 16000E-06	0. 36000E-09	0. 12000E-09	7050
0. 13900E-04	0. 70000E-05	0. 49000E-07	0. 40000E-08	6643
0. 25900E-05	0. 51000E-06	0. 56000E-08	0. 15000E-08	7049
0. 85000E-05	0. 19000E-05	0. 44000E-09	0. 60000E-10	T098
0. 12100E-05	0. 20000E-06	0. 62000E-09	0. 60000E-10	6842
0. 14800E-04	0. 74000E-06	0. 20000E-07	0. 34000E-08	7655
0. 80300E-05	0. 12800E-05	0. 55200E-08	0. 61000E-09	7897
0. 94400E-04	0. 63000E-05	0. 61500E-08	0. 31000E-09	7896
0. 17000E-03	0. 90000E-05	0. 15300E-07	0. 42000E-08	7440
0. 14100E-02	0. 70500E-04	0. 13900E-06	0. 10000E-07	7567
0. 23400E-04	0. 12000E-05	0. 10200E-07	0. 21000E-08	7562
0. 74000E-04	0. 37000E-05	0. 54900E-07	0. 27450E-08	7888
0. 31600E-05	0. 99000E-06	0. 10300E-07	0. 90000E-09	7385
0. 14400E-04	0. 72000E-06	0. 74000E-07	0. 60000E-08	7386
0. 12500E-05	0. 17000E-06	0. 45200E-08	0. 23000E-09	7432
0. 13400E-05	0. 52000E-06	0. 59800E-08	0. 11800E-08	7648
0. 12300E-05	0. 21000E-06	0. 92800E-08	0. 10200E-08	8026
0. 17200E+03	0. 10000E+02	0. 14300E-01	0. 71500E-03	9034
0. 77000E-03	0. 90000E-04	0. 69000E-07	0. 14000E-07	9652
0. 74000E-06	0. 70000E-07	0. 80000E-09	0. 11000E-09	9760
0. 19300E-06	0. 25000E-07	0. 17000E-09	0. 50000E-10	9759
0. 31000E-06	0. 20000E-07	0. 13000E-09	0. 30000E-10	9761
0. 39900E-06	0. 19950E-07	0. 15000E-09	0. 60000E-10	9762
0. 42000E-01	0. 17000E-01	0. 31000E-03	0. 60000E-04	9502
0. 55000E-06	0. 30000E-06	0. 52300E-08	0. 30150E-09	9505
0. 64000E-06	0. 35000E-06	0. 35000E-07	0. 20000E-08	9509
0. 59300E-02	0. 56000E-03	0. 42000E-07	0. 60000E-08	9213
0. 19000E+00	0. 40000E-01	0. 49000E-04	0. 15000E-04	6859
0. 52000E-01	0. 90000E-02	0. 22000E-04	0. 40000E-05	T096
0. 41000E-02	0. 23000E-02	0. 32000E-04	0. 50000E-05	T074
0. 26200E+00	0. 15000E-01	0. 13800E-04	0. 17000E-05	9245
0. 70000E-01	0. 14000E-01	0. 26800E-03	0. 89000E-04	6848
0. 30900E-03	0. 20000E-03	0. 43000E-06	0. 90000E-07	7288
0. 28600E-03	0. 18000E-03	0. 13000E-04	0. 40000E-05	6957
0. 37000E-01	0. 17000E-01	0. 41000E-03	0. 80000E-04	6738
0. 12900E+00	0. 11000E-01	0. 14000E-02	0. 20000E-03	7066
0. 16000E-02	0. 30000E-03	0. 31000E-04	0. 50000E-05	T077
0. 84600E-01	0. 41000E-01	0. 12000E-04	0. 20000E-05	7149
0. 45000E-01	0. 10000E-01	0. 26000E-05	0. 40000E-06	T095
0. 17000E-02	0. 10000E-02	0. 43000E-04	0. 10000E-04	T040
0. 74300E-01	0. 25700E-01	0. 19900E-03	0. 20000E-04	7921
0. 79400E-01	0. 43800E-01	0. 27300E-03	0. 33000E-04	7919
0. 93000E-03	0. 62000E-04	0. 53700E-05	0. 27000E-06	7188
0. 13000E+00	0. 82000E-01	0. 43200E-02	0. 22000E-03	7451
0. 29100E+00	0. 14400E+00	0. 31400E-02	0. 25000E-03	7595
0. 23500E-01	0. 11750E-02	0. 60000E-04	0. 90000E-05	10007
0. 25000E-06	0. 20000E-07	0. 90000E-09	0. 10000E-09	10008

0. 70000E-04	0. 10000E-04	0. 25000E-06	0. 12500E-07	10010
0. 50000E-03	0. 30000E-03	0. 40000E-05	0. 10000E-05	10011
0. 17800E-01	0. 20000E-02	0. 22000E-03	0. 30000E-04	6841
0. 10500E+00	0. 11000E-01	0. 80000E-03	0. 60000E-04	7077
0. 14000E-01	0. 60000E-02	0. 22000E-04	0. 40000E-05	T042
0. 25000E+01	0. 12500E+00	0. 24000E-03	0. 20000E-04	6858
0. 53000E+01	0. 30000E+00	0. 41000E-01	0. 50000E-02	T079
0. 40000E-01	0. 20000E-01	0. 24000E-03	0. 30000E-04	T034
0. 95000E-01	0. 12000E-01	0. 15000E-02	0. 40000E-03	T075
0. 64000E-02	0. 20000E-02	0. 39000E-04	0. 60000E-05	T080
0. 46000E-02	0. 20000E-02	0. 10000E-05	0. 20000E-06	T035
0. 45400E-02	0. 62000E-03	0. 15000E-04	0. 10000E-05	7147
0. 19500E-03	0. 12000E-03	0. 85000E-05	0. 20000E-05	7157
0. 19000E-02	0. 12000E-02	0. 46000E-05	0. 76000E-06	7186
0. 17000E-01	0. 50000E-02	0. 13000E-03	0. 22000E-04	6844
0. 63000E+00	0. 26000E+00	0. 21000E-04	0. 30000E-05	T043
0. 31200E-01	0. 18000E-01	0. 80200E-03	0. 14400E-03	7591
0. 91100E-01	0. 11300E-01	0. 19300E-01	0. 23000E-02	7593
0. 10100E+01	0. 50500E-01	0. 20500E-02	0. 10250E-03	8003
0. 81400E-04	0. 41600E-04	0. 12200E-05	0. 12000E-06	8020
0. 10000E-01	0. 33000E-02	0. 49000E-05	0. 13700E-05	7586
0. 21000E+01	0. 15000E+00	0. 12400E-01	0. 12000E-02	8038
0. 69200E+00	0. 62000E-01	0. 84500E-02	0. 16900E-02	8028
0. 16100E-03	0. 50000E-04	0. 22900E-05	0. 95000E-06	7398
0. 22000E+00	0. 11000E-01	0. 94000E-03	0. 70000E-04	T102
0. 16700E+01	0. 83500E-01	0. 13000E-03	0. 20000E-04	T083
0. 14100E+02	0. 70500E+00	0. 11000E-03	0. 20000E-04	T084
0. 13800E+00	0. 70000E-02	0. 13000E-03	0. 10000E-04	6727
0. 12000E+02	0. 30000E+01	0. 62000E-03	0. 80000E-04	T044
0. 33800E+00	0. 10000E+00	0. 18000E-02	0. 23000E-03	7694
0. 26300E-02	0. 13150E-03	0. 97700E-05	0. 49000E-06	7893
0. 45800E-03	0. 23000E-04	0. 29100E-05	0. 15000E-06	7894
0. 49400E-07	0. 25000E-08	0. 10200E-09	0. 90000E-11	C001
0. 18000E-07	0. 32000E-08	0. 38300E-09	0. 19150E-10	C002
0. 88700E-01	0. 62000E-02	0. 15600E-04	0. 16000E-05	10090
0. 53000E+00	0. 26500E-01	0. 71000E-04	0. 70000E-05	10083
0. 69300E+00	0. 34650E-01	0. 11900E-03	0. 80000E-05	10082
0. 18700E-01	0. 93500E-03	0. 31300E-03	0. 15650E-04	10056
0. 20800E-01	0. 10400E-02	0. 53800E-03	0. 26900E-04	10057
0. 13700E-05	0. 13000E-06	0. 17600E-08	0. 13000E-09	10058
0. 96850E-06	0. 16038E-06	0. 78400E-08	0. 79712E-09	10059
0. 61800E-01	0. 30900E-02	0. 49400E-03	0. 24700E-04	10062
0. 82000E-06	0. 12000E-06	0. 23700E-07	0. 11850E-08	10063
0. 90000E-03	0. 11000E-03	0. 17200E-04	0. 11000E-05	10064
0. 29000E-01	0. 16000E-02	0. 20700E-03	0. 10350E-04	10066
0. 42800E-02	0. 21400E-03	0. 29000E-05	0. 40000E-06	10013
0. 80400E-02	0. 40200E-03	0. 59700E-05	0. 29850E-06	10014
0. 35300E-02	0. 27000E-03	0. 12000E-05	0. 20000E-06	10015
0. 25400E-02	0. 12700E-03	0. 79000E-06	0. 14000E-06	10016
0. 55000E+01	0. 70000E+00	0. 28000E-01	0. 60000E-02	9974
0. 60100E+00	0. 30050E-01	0. 32000E-02	0. 16000E-03	9973
0. 12000E-01	0. 30000E-02	0. 78500E-04	0. 47000E-05	10026
0. 32000E-01	0. 60000E-02	0. 25800E-03	0. 12900E-04	10027
0. 28000E-01	0. 15000E-01	0. 29700E-06	0. 28000E-07	9963
0. 22700E+00	0. 22000E-01	0. 16800E-04	0. 34000E-05	10143
0. 73000E-02	0. 36500E-03	0. 45300E-06	0. 86000E-07	10144
0. 64900E-01	0. 32450E-02	0. 16500E-05	0. 28000E-06	10145
0. 59900E-03	0. 15000E-03	0. 84200E-06	0. 34000E-06	10146
0. 56400E-05	0. 22000E-05	0. 10900E-08	0. 21000E-09	10121
0. 11800E-03	0. 59000E-05	0. 34200E-06	0. 22000E-07	10072
0. 82000E-05	0. 70000E-06	0. 88000E-07	0. 46000E-07	10079
0. 55000E+00	0. 17000E+00	0. 20200E-02	0. 10100E-03	10074
0. 20500E+01	0. 10250E+00	0. 12100E-01	0. 60500E-03	10075

0. 97000E+00	0. 61000E+00	0. 33500E-02	0. 20000E-03	10077
0. 72000E-04	0. 20000E-04	0. 41600E-06	0. 20800E-07	10078
0. 88700E-02	0. 44350E-03	0. 20300E-03	0. 10150E-04	10108
0. 22700E-03	0. 37000E-04	0. 37200E-05	0. 21000E-06	10110
0. 17400E-03	0. 26000E-04	0. 29500E-04	0. 14750E-05	10111
0. 28700E-03	0. 17000E-03	0. 17400E-05	0. 56000E-06	10113
0. 88200E-02	0. 44100E-03	0. 50300E-03	0. 25150E-04	10114
0. 53000E+00	0. 26500E-01	0. 10000E-01	0. 50000E-03	10115
0. 10700E-02	0. 25000E-03	0. 18700E-04	0. 14000E-05	10116
0. 55900E-03	0. 35000E-03	0. 42100E-05	0. 90000E-06	10118
0. 65000E-04	0. 34000E-05	0. 19200E-06	0. 14000E-07	10138
0. 55200E-02	0. 37000E-03	0. 11100E-04	0. 12000E-05	10140
0. 14700E-06	0. 45000E-07	0. 88850E-08	0. 51884E-09	10137
0. 32000E+00	0. 70000E-01	0. 75000E-03	0. 22000E-03	10159
0. 69000E-02	0. 11040E-02	0. 23046E-04	0. 27656E-05	10207
0. 28600E-01	0. 14300E-02	0. 65673E-05	0. 11164E-05	10208
0. 84100E-01	0. 42050E-02	0. 27518E-03	0. 13759E-04	10209
0. 25000E-05	0. 70000E-06	0. 24177E-07	0. 93185E-08	10206
0. 19000E-06	0. 39900E-07	0. 21467E-09	0. 12236E-09	10205
0. 13000E-02	0. 65000E-03	0. 12390E-04	0. 74336E-06	10246
0. 12000E-02	0. 14400E-03	0. 86645E-06	0. 45056E-06	10230
0. 86800E-02	0. 78120E-03	0. 26517E-05	0. 10872E-05	10231
0. 39200E-04	0. 31360E-05	0. 70000E-06	0. 19600E-06	10232
0. 15700E+00	0. 78500E-02	0. 73075E-05	0. 12423E-05	10233
0. 58000E-01	0. 29000E-02	0. 12391E-05	0. 16109E-06	10234
0. 18300E-01	0. 14640E-02	0. 48115E-05	0. 96230E-06	10235
0. 13000E+01	0. 65000E-01	0. 71407E-04	0. 35704E-05	10237
0. 67700E+00	0. 33850E-01	0. 61302E-05	0. 17778E-05	10238
0. 38300E-01	0. 34470E-02	0. 18000E-04	0. 21600E-05	10274
0. 35300E-01	0. 14473E-01	0. 30200E-03	0. 15100E-04	10286
0. 49600E-01	0. 24800E-02	0. 43300E-03	0. 86600E-04	10287
0. 43400E-06	0. 23436E-06	0. 21401E-07	0. 10655E-07	10307
0. 86110E-04	0. 17494E-04	0. 41372E-08	0. 24823E-09	10308
0. 40400E-01	0. 20200E-02	0. 11748E-04	0. 58740E-06	10311
0. 57700E-02	0. 28850E-03	0. 46015E-04	0. 23008E-05	10312
0. 13000E-02	0. 49400E-03	0. 10803E-05	0. 32408E-06	10314
0. 18800E+00	0. 48880E-01	0. 61700E-04	0. 32701E-04	10293
0. 16900E-01	0. 13520E-02	0. 25900E-04	0. 38850E-05	10295
0. 22400E+01	0. 40320E+00	0. 19000E-02	0. 95000E-04	10298
0. 19900E-02	0. 75620E-03	0. 26900E-04	0. 37660E-05	10300
0. 21300E-06	0. 55380E-07	0. 12561E-09	0. 36426E-10	10388
0. 24800E-03	0. 96720E-04	0. 27060E-04	0. 13530E-05	10400
0. 17700E-04	0. 44250E-05	0. 19711E-05	0. 98556E-07	10466
0. 14900E-04	0. 84930E-05	0. 18175E-06	0. 18175E-07	10275
0. 47300E-03	0. 56760E-04	0. 14100E-05	0. 98700E-07	10278
0. 40000E+00	0. 56000E-01	0. 48800E-02	0. 73200E-03	10281
0. 20600E+00	0. 14420E-01	0. 13600E-02	0. 68000E-04	10282
0. 18881E-01	0. 94405E-03	0. 53800E-04	0. 16140E-04	10290
0. 25000E+02	0. 12500E+01	0. 67992E-02	0. 33996E-03	10304
0. 60900E-02	0. 30450E-03	0. 18651E-06	0. 93256E-07	10305
0. 11000E-02	0. 55000E-04	0. 15647E-06	0. 78235E-08	10303
0. 45557E-02	0. 22778E-03	0. 15511E-06	0. 21716E-07	10306
0. 11000E+02	0. 55000E+00	0. 97691E-03	0. 48846E-04	10406
0. 17400E-01	0. 87000E-03	0. 50627E-04	0. 35439E-05	10387
0. 13900E-03	0. 69500E-05	0. 72700E-07	0. 37804E-07	10329
0. 36000E-01	0. 97200E-02	0. 84950E-03	0. 42475E-04	10330
0. 31800E-02	0. 13674E-02	0. 28811E-04	0. 28811E-05	10335
0. 18226E-01	0. 71080E-02	0. 83533E-05	0. 66826E-06	10353
0. 61159E-02	0. 10397E-02	0. 36661E-05	0. 19430E-05	10363
0. 68500E-01	0. 68500E-02	0. 18194E-03	0. 49125E-04	10394
0. 33300E+00	0. 16650E-01	0. 57269E-03	0. 51542E-04	10395
0. 15200E+01	0. 76000E-01	0. 22476E-03	0. 13485E-04	10396
0. 19100E-02	0. 63030E-03	0. 34000E-05	0. 10880E-05	10397

0. 24412E+01	0. 12204E+00	0. 13315E-03	0. 10652E-04	10438
0. 32000E-01	0. 80000E-02	0. 22179E-04	0. 48794E-05	10440
0. 70400E-03	0. 21824E-03	0. 14639E-05	0. 58555E-06	10443
0. 28670E-02	0. 83143E-03	0. 38907E-05	0. 12839E-05	10444
0. 60910E-01	0. 36546E-02	0. 71101E-04	0. 92431E-05	10445
0. 71600E+00	0. 35800E-01	0. 67119E-03	0. 33560E-04	10446
0. 20420E+00	0. 10210E-01	0. 25720E-03	0. 15432E-04	10447
0. 26340E-03	0. 65830E-04	0. 76230E-06	0. 19820E-06	10448
0. 18400E-01	0. 92000E-03	0. 27038E-04	0. 13519E-05	10556
0. 15501E-04	0. 76962E-06	0. 52986E-08	0. 40312E-09	10501
0. 33724E-06	0. 14839E-06	0. 17255E-09	0. 36236E-10	10503
0. 12100E-05	0. 96800E-07	0. 22386E-08	0. 24625E-09	10520
0. 69622E-05	0. 34811E-06	0. 76053E-09	0. 14450E-09	10521
0. 16000E-05	0. 11200E-06	0. 37604E-08	0. 18802E-09	10522
0. 58300E-05	0. 29150E-06	0. 17723E-07	0. 88617E-09	10523
0. 27600E-05	0. 13900E-06	0. 79225E-08	0. 39613E-09	10524
0. 21400E-03	0. 10700E-04	0. 94200E-07	0. 47100E-08	10525
0. 11900E-01	0. 59500E-03	0. 99731E-05	0. 49866E-06	10526
0. 30205E-05	0. 21144E-06	0. 13694E-07	0. 68470E-09	10527
0. 17300E-02	0. 27680E-03	0. 91104E-05	0. 72883E-06	10528
0. 23000E-01	0. 25300E-02	0. 46608E-03	0. 23304E-04	10529
0. 41900E-02	0. 41900E-03	0. 18200E-04	0. 12740E-05	10530
0. 29900E-01	0. 14950E-02	0. 24624E-03	0. 12312E-04	10531
0. 80055E+00	0. 80055E-01	0. 21844E-02	0. 32766E-03	10532
0. 79700E+00	0. 39850E-01	0. 16891E-02	0. 84455E-04	10533
0. 15000E-04	0. 75000E-06	0. 43386E-07	0. 21693E-08	10557
0. 87000E-06	0. 11310E-06	0. 41648E-08	0. 20824E-09	10564
0. 93700E-07	0. 30000E-07	0. 22200E-08	0. 13300E-09	10567
0. 31200E-01	0. 28080E-02	0. 87800E-03	0. 43900E-04	10571
0. 95000E-02	0. 25700E-02	0. 17100E-03	0. 10300E-04	10572
0. 83000E-03	0. 23200E-03	0. 14500E-04	0. 72500E-06	10575
0. 22400E+00	0. 49280E-01	0. 15794E-03	0. 78970E-05	10604
0. 71800E-02	0. 86160E-03	0. 12140E-04	0. 35207E-05	10605
0. 57200E-02	0. 21164E-02	0. 27928E-04	0. 39099E-05	10681
0. 43300E-02	0. 15155E-02	0. 57584E-05	0. 12093E-05	10682
0. 13600E-05	0. 81600E-06	0. 37500E-07	0. 26250E-08	10332
0. 22200E-06	0. 16700E-06	0. 24900E-09	0. 74500E-10	10333
0. 18600E-02	0. 10044E-02	0. 46600E-05	0. 15844E-05	10338
0. 12600E-02	0. 12600E-03	0. 29658E-05	0. 26692E-06	10553
0. 77200E-03	0. 61760E-04	0. 35763E-05	0. 21458E-06	10554
0. 74300E-05	0. 67320E-06	0. 27348E-08	0. 87512E-09	10645
0. 20606E-06	0. 10303E-06	0. 96566E-10	0. 60837E-10	10646
0. 10800E-01	0. 54000E-03	0. 12301E-04	0. 73806E-06	10647
0. 37200E+02	0. 18600E+01	0. 64357E-02	0. 51485E-03	10672
0. 93100E-02	0. 46550E-03	0. 28500E-03	0. 14250E-04	10758
0. 14900E+01	0. 74500E-01	0. 24967E-01	0. 12483E-02	10761
0. 11900E+00	0. 59500E-02	0. 68713E-03	0. 34356E-04	10762
0. 75200E-07	0. 43616E-07	0. 54432E-09	0. 87091E-10	10727
0. 25000E-03	0. 35000E-04	0. 43150E-05	0. 51781E-06	10729
0. 28500E-04	0. 37050E-05	0. 10101E-06	0. 11111E-07	10730
0. 87400E-03	0. 30590E-03	0. 43484E-05	0. 52181E-06	10732
0. 26300E-04	0. 12624E-04	0. 21845E-07	0. 76458E-08	10808



## CORRELATION RESULTS

Nuclides Tested for Correlation are 239-PU and 241-AM

Test made on 19-OCT-84

Sorting Criteria are :

BWR

Number of entries in the fit is 302

Zero Offset Value, B0, is  $-8.57877E-11$

Correlation Ratio, B1, is  $6.19309E-01$

Standard Deviation in B0 is  $1.92491E-10$

Standard Deviation in B1 is  $4.61839E-02$

F-TEST Value is 445.737

Confidence Level for this Correlation is: 99. %



## BWR

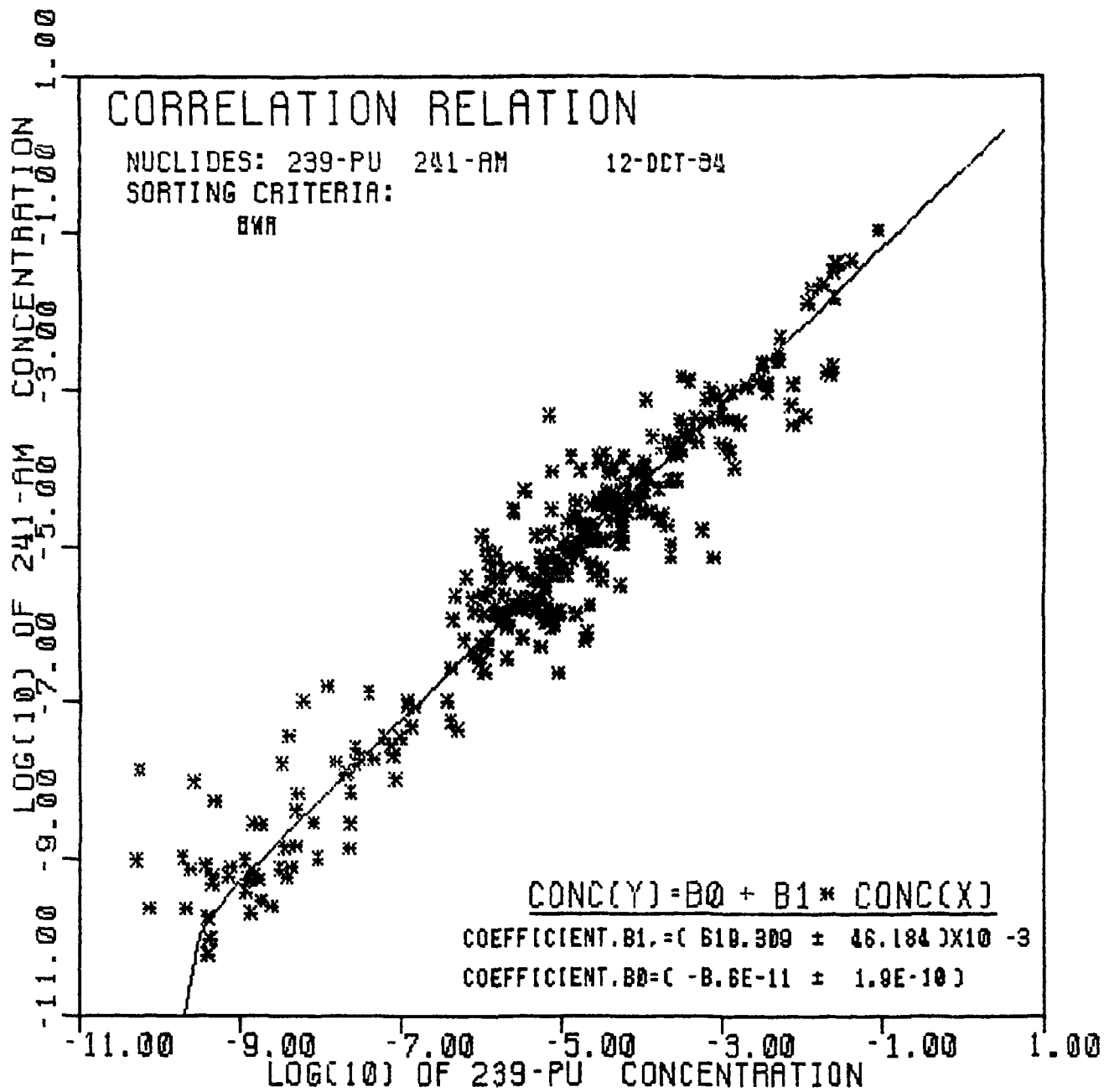
0. 12000E-06	0. 20000E-07	0. 11000E-06	0. 30000E-07	T050
0. 49000E-08	0. 30000E-09	0. 43000E-08	0. 60000E-09	7048
0. 22000E-07	0. 20000E-08	0. 14000E-08	0. 20000E-09	T094
0. 23000E-07	0. 70000E-08	0. 71000E-08	0. 20000E-08	T002
0. 50000E-08	0. 60000E-09	0. 70000E-08	0. 11000E-08	4727
0. 97000E-07	0. 10000E-07	0. 36000E-07	0. 60000E-08	T031
0. 26000E-07	0. 30000E-08	0. 17000E-07	0. 30000E-08	6826
0. 47000E-08	0. 40000E-09	0. 15000E-08	0. 20000E-09	6806
0. 78000E-08	0. 10000E-08	0. 30000E-08	0. 50000E-09	T085
0. 75000E-07	0. 90000E-08	0. 30000E-07	0. 20000E-07	6366
0. 50000E-06	0. 70000E-07	0. 46000E-07	0. 60000E-08	T036
0. 44000E-07	0. 60000E-08	0. 19000E-07	0. 60000E-08	T037
0. 46000E-09	0. 70000E-10	0. 49000E-09	0. 70000E-10	T090
0. 70000E-09	0. 20000E-09	0. 61000E-09	0. 10000E-09	6814
0. 16000E-08	0. 10000E-09	0. 56000E-09	0. 50000E-10	7132
0. 52000E-10	0. 10000E-10	0. 10000E-08	0. 40000E-09	6976
0. 38000E-08	0. 30000E-09	0. 60000E-09	0. 60000E-10	7392
0. 56000E-10	0. 15000E-10	0. 14000E-07	0. 30000E-08	6977
0. 43000E-09	0. 11000E-09	0. 97000E-10	0. 29000E-10	7394
0. 19000E-09	0. 10000E-09	0. 11000E-08	0. 30000E-09	6975
0. 38000E-09	0. 50000E-10	0. 87000E-09	0. 40000E-09	7393
0. 13300E-06	0. 11000E-07	0. 51000E-07	0. 51000E-08	T017
0. 39100E-08	0. 26000E-09	0. 38200E-07	0. 19100E-08	7656
0. 34800E-08	0. 17400E-09	0. 14800E-08	0. 74000E-10	7570
0. 43000E-08	0. 21500E-09	0. 81700E-09	0. 41000E-10	7889
0. 27400E-09	0. 53000E-10	0. 99400E-08	0. 14900E-08	7649
0. 14700E-08	0. 15000E-09	0. 63500E-09	0. 44000E-10	7890
0. 29600E-08	0. 19000E-09	0. 76200E-09	0. 84000E-10	7891
0. 26000E-07	0. 40000E-08	0. 27000E-07	0. 30000E-08	T064
0. 32000E-08	0. 30000E-09	0. 17400E-07	0. 90000E-08	7169
0. 25000E-01	0. 30000E-02	0. 20000E-02	0. 20000E-03	T065
0. 38000E-02	0. 60000E-03	0. 12000E-02	0. 20000E-03	T086
0. 37000E-02	0. 50000E-03	0. 97000E-03	0. 15000E-03	T048
0. 10000E-02	0. 20000E-03	0. 47000E-03	0. 70000E-04	T066
0. 18000E-04	0. 40000E-05	0. 16000E-04	0. 40000E-05	T055
0. 15000E-04	0. 40000E-05	0. 23000E-04	0. 30000E-05	T056
0. 86000E-03	0. 80000E-04	0. 53000E-03	0. 60000E-04	6311
0. 23000E-03	0. 20000E-04	0. 20000E-03	0. 20000E-04	6789
0. 27000E-03	0. 50000E-04	0. 21000E-03	0. 40000E-04	6786
0. 11600E-03	0. 25000E-04	0. 74000E-03	0. 15000E-03	T117
0. 14000E-03	0. 10000E-04	0. 26000E-03	0. 20000E-04	7058
0. 64000E-04	0. 32000E-05	0. 35000E-04	0. 20000E-05	7063
0. 35000E-04	0. 15000E-04	0. 38000E-04	0. 13000E-04	T004
0. 13000E-04	0. 30000E-05	0. 85000E-05	0. 30000E-05	T006
0. 14000E-02	0. 20000E-03	0. 42000E-03	0. 10000E-03	T030
0. 79000E-04	0. 10000E-04	0. 96000E-04	0. 15000E-04	T069
0. 13000E-05	0. 20000E-06	0. 42000E-05	0. 21000E-06	6996
0. 22200E-05	0. 27000E-06	0. 11500E-05	0. 27000E-06	7401
0. 11000E-02	0. 10000E-03	0. 19000E-03	0. 20000E-04	6378
0. 21000E-02	0. 20000E-03	0. 11000E-02	0. 10000E-03	6813
0. 33000E-03	0. 40000E-04	0. 28000E-03	0. 40000E-04	6379
0. 94000E-03	0. 90000E-04	0. 42000E-03	0. 30000E-04	6812
0. 33000E-02	0. 20000E-03	0. 20000E-02	0. 10000E-03	7087
0. 47000E-03	0. 30000E-04	0. 43000E-03	0. 21500E-04	7088
0. 24000E-01	0. 30000E-02	0. 15600E-02	0. 25000E-03	T087
0. 75000E-02	0. 10000E-02	0. 66000E-03	0. 10000E-03	T010
0. 21000E-01	0. 30000E-02	0. 17000E-02	0. 30000E-03	T046
0. 91800E-04	0. 40000E-04	0. 38000E-04	0. 20000E-05	7062
0. 64600E-03	0. 56000E-04	0. 72700E-03	0. 36350E-04	7690
0. 53700E-02	0. 26850E-03	0. 23900E-02	0. 11950E-03	7686
0. 12400E-02	0. 70000E-03	0. 15900E-03	0. 28000E-04	7813

0. 33600E-03	0. 17000E-04	0. 36000E-03	0. 18000E-04	7913
0. 93200E-03	0. 56000E-04	0. 73100E-03	0. 37000E-04	7915
0. 13700E-02	0. 70000E-03	0. 95500E-03	0. 12000E-03	7449
0. 25300E-05	0. 24000E-06	0. 30200E-04	0. 66000E-05	7588
0. 31800E-03	0. 26000E-04	0. 14400E-02	0. 19000E-03	7589
0. 26200E-04	0. 13100E-05	0. 14600E-04	0. 90000E-06	8002
0. 32200E-04	0. 30000E-05	0. 49200E-05	0. 60000E-06	7151
0. 25000E-04	0. 20000E-05	0. 44000E-05	0. 22000E-06	7150
0. 51400E-04	0. 55000E-05	0. 13000E-04	0. 40000E-05	7674
0. 54900E-02	0. 27000E-03	0. 47300E-02	0. 24000E-03	8023
0. 11000E-03	0. 20000E-04	0. 62000E-04	0. 80000E-05	T011
0. 17000E-02	0. 20000E-03	0. 37000E-03	0. 40000E-04	T038
0. 14000E-02	0. 20000E-03	0. 10000E-03	0. 20000E-04	T009
0. 11000E-04	0. 40000E-05	0. 90000E-05	0. 15000E-05	T029
0. 24000E-03	0. 40000E-04	0. 71000E-04	0. 20000E-04	T003
0. 32000E-05	0. 10000E-05	0. 20000E-05	0. 10000E-05	T007
0. 53000E-04	0. 50000E-05	0. 11000E-04	0. 30000E-05	T051
0. 54000E-05	0. 60000E-06	0. 74000E-05	0. 10000E-05	T054
0. 31000E-05	0. 40000E-06	0. 21000E-05	0. 30000E-06	T052
0. 26000E-01	0. 13000E-02	0. 15000E-01	0. 50000E-02	T112
0. 36400E-03	0. 18200E-04	0. 26100E-03	0. 13050E-04	7450
0. 53200E-02	0. 27000E-03	0. 27800E-02	0. 18000E-03	7452
0. 64000E-04	0. 10000E-04	0. 62000E-04	0. 10000E-04	T070
0. 72000E-03	0. 10000E-03	0. 41000E-03	0. 60000E-04	T091
0. 10200E-03	0. 31000E-04	0. 40800E-04	0. 20400E-05	6787
0. 93300E-03	0. 74000E-04	0. 47700E-03	0. 32000E-04	6792
0. 12000E-01	0. 22000E-02	0. 12600E-01	0. 22000E-02	6790
0. 11000E-03	0. 19000E-04	0. 52100E-04	0. 37000E-05	6827
0. 59000E-04	0. 29500E-05	0. 15000E-04	0. 30000E-05	T005
0. 17600E-04	0. 27000E-05	0. 95900E-04	0. 54000E-05	7014
0. 28700E-04	0. 15000E-05	0. 11800E-03	0. 15000E-04	7448
0. 29600E-03	0. 24000E-04	0. 41700E-03	0. 75000E-04	7446
0. 58000E-04	0. 80000E-05	0. 21000E-04	0. 30000E-05	6821
0. 83000E-05	0. 20000E-05	0. 60000E-05	0. 20000E-05	6816
0. 63000E-05	0. 20000E-05	0. 36000E-05	0. 15000E-05	6817
0. 35000E-04	0. 50000E-05	0. 12000E-04	0. 20000E-05	6818
0. 64000E-05	0. 10000E-05	0. 42000E-05	0. 20000E-05	6819
0. 20000E-04	0. 40000E-05	0. 13000E-04	0. 30000E-05	6823
0. 50000E-02	0. 10000E-02	0. 23000E-02	0. 10000E-02	T023
0. 12000E-04	0. 30000E-05	0. 44000E-05	0. 40000E-06	6815
0. 11000E-03	0. 10000E-04	0. 76000E-04	0. 70000E-05	6820
0. 15000E-05	0. 10000E-05	0. 78000E-05	0. 30000E-05	6825
0. 12000E-04	0. 20000E-05	0. 20000E-04	0. 50000E-05	6824
0. 10000E-03	0. 30000E-04	0. 28000E-04	0. 10000E-04	6822
0. 31000E-03	0. 30000E-04	0. 17000E-03	0. 20000E-04	T168
0. 71000E-05	0. 35000E-05	0. 46000E-03	0. 90000E-04	7003
0. 60000E-04	0. 60000E-05	0. 14000E-03	0. 50000E-04	7076
0. 96000E-03	0. 15000E-03	0. 21000E-03	0. 30000E-04	T026
0. 82000E-03	0. 20000E-03	0. 79000E-03	0. 90000E-04	T022
0. 81400E-04	0. 65000E-05	0. 39300E-04	0. 20000E-05	7809
0. 28000E-04	0. 32000E-05	0. 11600E-04	0. 90000E-06	7810
0. 67300E-05	0. 78000E-06	0. 41800E-05	0. 76000E-06	T500
0. 79700E-03	0. 22300E-03	0. 71800E-05	0. 12200E-05	T700
0. 76000E-05	0. 55000E-06	0. 29600E-04	0. 36000E-05	K001
0. 23000E-03	0. 70000E-04	0. 72000E-05	0. 12000E-05	T700M
0. 45000E-05	0. 80000E-06	0. 22000E-05	0. 40000E-06	8329
0. 89000E-05	0. 50000E-06	0. 13800E-05	0. 69000E-07	9852
0. 99000E-05	0. 49500E-06	0. 61000E-05	0. 50000E-06	9853
0. 27000E-01	0. 13500E-02	0. 40000E-01	0. 20000E-02	9684
0. 48000E-03	0. 24000E-04	0. 31000E-03	0. 15500E-04	9685
0. 29000E-01	0. 14500E-02	0. 40000E-01	0. 20000E-02	9686
0. 94000E-01	0. 47000E-02	0. 10700E+00	0. 53500E-02	9687
0. 42000E-01	0. 21000E-02	0. 44000E-01	0. 22000E-02	9688

0. 25000E-01	0. 90000E-02	0. 32000E-01	0. 16000E-02	9689
0. 18000E-01	0. 10000E-02	0. 22000E-01	0. 11000E-02	9690
0. 23000E-03	0. 11500E-04	0. 10500E-04	0. 16000E-05	9365
0. 82000E-02	0. 60000E-03	0. 36000E-03	0. 20000E-04	9366
0. 27000E-03	0. 13500E-04	0. 68000E-04	0. 90000E-05	9367
0. 13400E-01	0. 70000E-03	0. 19500E-01	0. 10000E-02	9636
0. 51000E-03	0. 30000E-04	0. 21000E-03	0. 20000E-04	9637
0. 29000E-04	0. 20000E-05	0. 42000E-04	0. 21000E-05	9634
0. 35000E-03	0. 20000E-04	0. 29000E-03	0. 20000E-04	9635
0. 81000E-02	0. 40500E-03	0. 12100E-02	0. 60500E-04	9117
0. 42000E-04	0. 21000E-05	0. 33000E-04	0. 20000E-05	9118
0. 53000E-04	0. 30000E-05	0. 28000E-04	0. 30000E-05	9119
0. 15000E-04	0. 10000E-05	0. 14000E-05	0. 10000E-06	9846
0. 24000E-03	0. 12000E-04	0. 15600E-03	0. 78000E-05	9847
0. 13000E-04	0. 20000E-05	0. 14000E-03	0. 10000E-04	9799
0. 11000E-03	0. 10000E-04	0. 12000E-03	0. 10000E-04	9800
0. 32000E-04	0. 30000E-05	0. 36000E-05	0. 70000E-06	9801
0. 87000E-04	0. 50000E-05	0. 88000E-04	0. 70000E-05	9802
0. 11200E-03	0. 60000E-05	0. 10000E-03	0. 70000E-05	9803
0. 31500E-02	0. 15750E-03	0. 21300E-02	0. 10650E-03	9804
0. 45000E-04	0. 80000E-05	0. 21000E-04	0. 30000E-05	7815
0. 11900E-05	0. 19000E-06	0. 90000E-05	0. 14000E-05	7816
0. 85000E-06	0. 15000E-06	0. 15000E-05	0. 30000E-06	7819
0. 19200E-04	0. 96000E-06	0. 63000E-06	0. 11000E-06	9329
0. 21000E-05	0. 40000E-06	0. 36000E-06	0. 10000E-06	9330
0. 59000E-03	0. 12000E-03	0. 16000E-04	0. 50000E-05	9331
0. 49000E-05	0. 10000E-05	0. 15500E-05	0. 55000E-06	9332
0. 23000E-04	0. 30000E-05	0. 18000E-05	0. 80000E-06	9333
0. 39000E-09	0. 60000E-10	0. 61000E-10	0. 15000E-10	9262
0. 93000E-05	0. 50000E-06	0. 24000E-06	0. 90000E-07	9263
0. 21100E-04	0. 10550E-05	0. 78000E-06	0. 22000E-06	9264
0. 97000E-06	0. 60000E-07	0. 32000E-06	0. 30000E-07	9854
0. 56000E-05	0. 30000E-06	0. 13000E-05	0. 20000E-06	9856
0. 13200E-08	0. 66000E-10	0. 21000E-09	0. 30000E-10	9857
0. 59000E-04	0. 29500E-05	0. 11200E-04	0. 56000E-06	9806
0. 12500E-05	0. 14000E-06	0. 26000E-05	0. 10000E-05	9807
0. 90000E-05	0. 45000E-06	0. 44000E-05	0. 10000E-05	9808
0. 11000E-01	0. 10000E-02	0. 46000E-03	0. 23000E-04	9386
0. 13500E-03	0. 70000E-04	0. 27000E-04	0. 20000E-05	9980
0. 44000E-05	0. 22000E-06	0. 38000E-05	0. 10000E-05	9981
0. 48000E-04	0. 80000E-05	0. 35000E-04	0. 70000E-05	9982
0. 20900E-04	0. 11000E-05	0. 18000E-04	0. 90000E-06	10029
0. 12000E-04	0. 90000E-06	0. 11500E-04	0. 10000E-05	10030
0. 62600E-05	0. 46000E-06	0. 59600E-05	0. 42000E-06	10031
0. 82000E-06	0. 12000E-06	0. 22000E-05	0. 20000E-06	9997
0. 72600E-05	0. 68000E-06	0. 93000E-06	0. 17000E-06	9998
0. 80500E-05	0. 60000E-06	0. 97000E-06	0. 20000E-06	9999
0. 32000E-05	0. 50000E-06	0. 18000E-05	0. 30000E-06	10000
0. 42000E-06	0. 90000E-07	0. 28000E-06	0. 14000E-07	10003
0. 17000E-05	0. 20000E-06	0. 12000E-05	0. 30000E-06	10084
0. 12000E-07	0. 20000E-08	0. 16400E-06	0. 26173E-07	10088
0. 73200E-04	0. 36600E-05	0. 45500E-04	0. 22750E-05	9969
0. 67800E-04	0. 42000E-05	0. 39300E-04	0. 19650E-05	9970
0. 38300E-07	0. 26000E-08	0. 13800E-06	0. 69000E-08	9922
0. 17700E-04	0. 16000E-05	0. 18200E-04	0. 19000E-05	10125
0. 16800E-03	0. 84000E-05	0. 55800E-04	0. 37000E-05	10126
0. 64600E-04	0. 41000E-05	0. 27800E-04	0. 28000E-05	10127
0. 12200E-03	0. 94000E-05	0. 73000E-04	0. 78000E-05	10128
0. 24100E-04	0. 19600E-05	0. 14700E-04	0. 14600E-05	10129
0. 88900E-05	0. 84200E-06	0. 44700E-05	0. 57200E-06	10130
0. 19300E-07	0. 11000E-08	0. 12000E-07	0. 75000E-09	10131
0. 75800E-09	0. 77000E-10	0. 81200E-09	0. 12000E-09	10132
0. 18700E-03	0. 96000E-05	0. 26400E-04	0. 25000E-05	10133

0. 16600E-03	0. 83000E-05	0. 21900E-04	0. 18000E-05	10134
0. 48300E-05	0. 95000E-06	0. 15100E-05	0. 65000E-06	10135
0. 80000E-05	0. 81000E-06	0. 42500E-05	0. 83000E-06	10136
0. 26800E-03	0. 14000E-04	0. 14500E-03	0. 25000E-04	10168
0. 60900E-07	0. 16000E-07	0. 36000E-07	0. 15000E-07	10162
0. 76000E-05	0. 11000E-05	0. 80000E-05	0. 38000E-05	10165
0. 25300E-04	0. 13000E-05	0. 12100E-04	0. 11000E-05	10166
0. 20800E-03	0. 10400E-04	0. 17900E-04	0. 95000E-05	10167
0. 54000E-05	0. 11000E-05	0. 52000E-06	0. 30000E-06	10186
0. 88400E-08	0. 17014E-08	0. 10600E-08	0. 47518E-09	10185
0. 42000E-04	0. 50000E-05	0. 48000E-04	0. 80000E-05	10188
0. 49000E-05	0. 11000E-05	0. 14000E-04	0. 20000E-05	10189
0. 14386E-08	0. 60620E-09	0. 28671E-08	0. 10308E-08	10193
0. 37608E-06	0. 45129E-07	0. 10465E-06	0. 27125E-07	10194
0. 22000E-07	0. 11000E-08	0. 29763E-08	0. 32739E-09	10195
0. 10971E-05	0. 32913E-06	0. 24596E-06	0. 54112E-07	10201
0. 41363E-04	0. 20682E-05	0. 84667E-04	0. 42334E-05	10202
0. 99945E-05	0. 59967E-06	0. 14304E-05	0. 18595E-06	10203
0. 17918E-05	0. 57336E-06	0. 38368E-05	0. 80572E-06	10204
0. 38883E-04	0. 19442E-05	0. 45473E-04	0. 22737E-05	10190
0. 38485E-04	0. 34636E-05	0. 52020E-04	0. 41616E-05	10191
0. 58072E-08	0. 73524E-09	0. 10498E-06	0. 16639E-07	10259
0. 54782E-04	0. 32869E-05	0. 31463E-05	0. 88096E-06	10261
0. 17261E-08	0. 57806E-09	0. 28027E-08	0. 10030E-08	10262
0. 14220E-06	0. 32706E-07	0. 88614E-07	0. 21267E-07	10265
0. 44691E-09	0. 18770E-09	0. 63629E-09	0. 69991E-10	10266
0. 12327E-08	0. 17258E-09	0. 57013E-09	0. 85519E-10	10267
0. 17746E-08	0. 15971E-09	0. 30131E-09	0. 39171E-10	10268
0. 65632E-05	0. 85322E-06	0. 17602E-05	0. 28163E-06	10269
0. 61900E-05	0. 49500E-06	0. 11000E-05	0. 17600E-06	10270
0. 32683E-05	0. 29414E-06	0. 66512E-06	0. 99767E-07	10271
0. 73237E-05	0. 14647E-05	0. 13735E-05	0. 19229E-06	10318
0. 10370E-04	0. 62219E-06	0. 10438E-04	0. 12525E-05	10319
0. 61312E-05	0. 36787E-06	0. 53816E-05	0. 32290E-06	10320
0. 29888E-07	0. 94311E-08	0. 19546E-07	0. 70365E-08	10345
0. 14669E-05	0. 24937E-06	0. 13042E-05	0. 24780E-06	10347
0. 70200E-04	0. 25974E-04	0. 44000E-04	0. 15840E-04	10348
0. 49092E-09	0. 15218E-09	0. 56236E-08	0. 13142E-08	10382
0. 22647E-03	0. 58881E-04	0. 66627E-04	0. 26651E-04	10384
0. 19517E-03	0. 97585E-05	0. 21308E-03	0. 10654E-04	10385
0. 33691E-05	0. 40430E-06	0. 42395E-05	0. 63592E-06	10386
0. 74382E-05	0. 16364E-05	0. 89997E-04	0. 23399E-04	10442
0. 15097E-05	0. 24155E-06	0. 61300E-05	0. 14712E-05	10408
0. 56423E-05	0. 62066E-06	0. 50500E-05	0. 14140E-05	10409
0. 11413E-08	0. 12501E-09	0. 10174E-08	0. 38749E-09	10412
0. 14993E-05	0. 32984E-06	0. 40800E-05	0. 15912E-05	10414
0. 14718E-05	0. 38266E-06	0. 16200E-05	0. 58320E-06	10415
0. 23352E-04	0. 21017E-05	0. 61500E-05	0. 17220E-05	10416
0. 17532E-05	0. 31557E-06	0. 11500E-05	0. 41400E-06	10417
0. 18934E-05	0. 34082E-06	0. 49300E-05	0. 98600E-06	10418
0. 10333E-05	0. 29966E-06	0. 54179E-06	0. 92104E-07	10419
0. 23376E-09	0. 70131E-10	0. 75037E-09	0. 12502E-09	10422
0. 25967E-05	0. 64918E-06	0. 26949E-04	0. 70067E-05	10424
0. 60632E-05	0. 48506E-06	0. 26236E-05	0. 14955E-05	10425
0. 22747E-05	0. 36394E-06	0. 11500E-05	0. 44850E-06	10426
0. 12577E-05	0. 17608E-06	0. 65157E-05	0. 39094E-06	10427
0. 46007E-06	0. 13802E-06	0. 11739E-05	0. 56346E-06	10428
0. 38721E-09	0. 61353E-10	0. 18400E-09	0. 53105E-10	10429
0. 16637E-05	0. 43257E-06	0. 14202E-05	0. 41185E-06	10433
0. 84432E-07	0. 13509E-07	0. 11003E-07	0. 55013E-08	10477
0. 73966E-03	0. 36983E-04	0. 10302E-02	0. 51510E-04	10478
0. 44333E-04	0. 22167E-05	0. 11258E-03	0. 56290E-05	10479
0. 63444E-06	0. 26012E-06	0. 63855E-06	0. 27457E-06	10494

0. 27672E-05	0. 27672E-06	0. 52095E-05	0. 26048E-06	10495
0. 23492E-04	0. 11746E-05	0. 18751E-04	0. 93755E-06	10496
0. 62438E-04	0. 43706E-05	0. 58572E-04	0. 29286E-05	10497
0. 56352E-04	0. 28176E-05	0. 49923E-04	0. 24962E-05	10498
0. 33613E-04	0. 23529E-05	0. 34540E-04	0. 17270E-05	10499
0. 48394E-06	0. 31940E-06	0. 22825E-05	0. 66192E-06	10500
0. 15057E-07	0. 64624E-08	0. 17676E-07	0. 84847E-08	10482
0. 82260E-06	0. 24678E-06	0. 41489E-06	0. 26138E-06	10484
0. 40783E-06	0. 21615E-06	0. 59200E-07	0. 29600E-07	10487
0. 69560E-05	0. 15999E-05	0. 15058E-04	0. 28610E-05	10488
0. 11790E-05	0. 38906E-06	0. 66930E-06	0. 16732E-06	10507
0. 15702E-04	0. 29834E-05	0. 10708E-04	0. 18204E-05	10508
0. 17522E-04	0. 17522E-05	0. 80304E-05	0. 80304E-06	10509
0. 25029E-04	0. 65076E-05	0. 14683E-04	0. 45516E-05	10510
0. 11804E-05	0. 35413E-06	0. 49659E-06	0. 18871E-06	10511
0. 34871E-04	0. 20923E-05	0. 28190E-04	0. 16914E-05	10536
0. 18316E-03	0. 91582E-05	0. 18636E-03	0. 93180E-05	10537
0. 19479E-05	0. 11688E-06	0. 24256E-05	0. 12128E-06	10538
0. 50747E-04	0. 50747E-05	0. 29456E-04	0. 64804E-05	10539
0. 11577E-08	0. 10419E-09	0. 39252E-09	0. 74578E-10	10579
0. 40627E-03	0. 20314E-04	0. 25919E-03	0. 12960E-04	10582
0. 64574E-06	0. 36807E-06	0. 39679E-05	0. 91263E-06	10449
0. 35357E-05	0. 10607E-05	0. 49916E-04	0. 69883E-05	10450
0. 20903E-05	0. 35536E-06	0. 95989E-06	0. 20158E-06	10451
0. 14625E-04	0. 74590E-05	0. 29011E-04	0. 11894E-04	10453
0. 13737E-04	0. 20605E-05	0. 68671E-05	0. 10301E-05	10454
0. 23815E-08	0. 33341E-09	0. 25654E-09	0. 97484E-10	10490
0. 33140E-05	0. 46397E-06	0. 16161E-05	0. 32322E-06	10492
0. 40930E-03	0. 20465E-04	0. 13173E-02	0. 65865E-04	10493
0. 21146E-05	0. 33833E-06	0. 90339E-06	0. 18971E-06	10541
0. 20865E-09	0. 91805E-10	0. 23685E-09	0. 87637E-10	10543
0. 21546E-07	0. 88337E-08	0. 13090E-07	0. 58906E-08	10544
0. 75313E-10	0. 21088E-10	0. 23855E-09	0. 83490E-10	10545
0. 51858E-05	0. 18669E-05	0. 20923E-05	0. 98339E-06	10550
0. 27888E-05	0. 64143E-06	0. 17644E-05	0. 47639E-06	10602
0. 81629E-07	0. 10572E-07	0. 21543E-07	0. 43321E-08	10706
0. 13909E-04	0. 18082E-05	0. 22707E-04	0. 72663E-05	10709
0. 10389E-05	0. 32205E-06	0. 13622E-04	0. 95353E-06	10710
0. 11088E-05	0. 38808E-06	0. 24011E-05	0. 57626E-06	10711
0. 53492E-05	0. 96285E-06	0. 38518E-05	0. 13096E-05	10712
0. 10975E-05	0. 32924E-06	0. 13436E-05	0. 53744E-06	10713
0. 15093E-04	0. 12075E-05	0. 37873E-04	0. 75746E-05	10715
0. 22018E-05	0. 46239E-06	0. 17115E-05	0. 42787E-06	10716
0. 39945E-04	0. 13182E-04	0. 90308E-04	0. 27093E-04	10717
0. 31205E-04	0. 49928E-05	0. 38009E-04	0. 57014E-05	10696
0. 37252E-04	0. 18626E-05	0. 48186E-04	0. 28912E-05	10697
0. 28887E-02	0. 14444E-03	0. 12870E-02	0. 64349E-04	10698
0. 52318E-04	0. 62782E-05	0. 46408E-04	0. 60330E-05	10699
0. 28321E-04	0. 36817E-05	0. 14092E-03	0. 70462E-05	10813
0. 34931E-04	0. 34931E-05	0. 14688E-03	0. 73439E-05	10814
0. 23953E-04	0. 64673E-05	0. 35179E-04	0. 66841E-05	10876
0. 12021E-06	0. 30052E-07	0. 92354E-07	0. 22165E-07	10878



## CORRELATION RESULTS

Nuclides Tested for Correlation are 239-PU and 242-CM

Test made on 12-OCT-84

Sorting Criteria are :

BWR

Number of entries in the fit is 280

Zero Offset Value, B0, is 6.33091E-11

Correlation Ratio, B1, is 9.45839E-01

Standard Deviation in B0 is 4.15152E-10

Standard Deviation in B1 is 9.95266E-02

F-TEST Value is 133.013

Confidence Level for this Correlation is: 99. %

## BWR

0. 12000E-06	0. 20000E-07	0. 10000E-05	0. 20000E-06	T050
0. 49000E-08	0. 30000E-09	0. 18000E-06	0. 20000E-07	7048
0. 22000E-07	0. 20000E-08	0. 23000E-06	0. 20000E-07	T094
0. 23000E-07	0. 70000E-08	0. 19000E-06	0. 30000E-07	T002
0. 50000E-08	0. 60000E-09	0. 16000E-06	0. 20000E-07	4727
0. 97000E-07	0. 10000E-07	0. 16000E-05	0. 20000E-06	T031
0. 26000E-07	0. 30000E-08	0. 45000E-05	0. 50000E-06	6826
0. 47000E-08	0. 40000E-09	0. 21000E-07	0. 10500E-08	6806
0. 21000E-08	0. 50000E-09	0. 16000E-07	0. 20000E-08	7052
0. 78000E-08	0. 10000E-08	0. 92000E-07	0. 10000E-07	T085
0. 75000E-07	0. 90000E-08	0. 90000E-06	0. 30000E-06	6366
0. 50000E-06	0. 70000E-07	0. 19000E-05	0. 30000E-06	T036
0. 44000E-07	0. 60000E-08	0. 47000E-06	0. 60000E-07	T037
0. 46000E-09	0. 70000E-10	0. 68000E-09	0. 80000E-10	T090
0. 70000E-09	0. 20000E-09	0. 36000E-08	0. 10000E-08	6814
0. 16000E-08	0. 10000E-09	0. 71000E-09	0. 40000E-10	7132
0. 52000E-10	0. 10000E-10	0. 47000E-09	0. 30000E-09	6976
0. 38000E-08	0. 30000E-09	0. 23000E-07	0. 11500E-08	7392
0. 56000E-10	0. 15000E-10	0. 83000E-08	0. 30000E-08	6977
0. 43000E-09	0. 11000E-09	0. 88500E-09	0. 11000E-09	7394
0. 19000E-09	0. 10000E-09	0. 30000E-09	0. 20000E-09	6975
0. 24000E-08	0. 60000E-09	0. 22000E-07	0. 20000E-08	T028
0. 46500E-07	0. 59000E-08	0. 33600E-06	0. 94000E-07	7442
0. 39100E-08	0. 26000E-09	0. 51900E-07	0. 26000E-08	7656
0. 34800E-08	0. 17400E-09	0. 25700E-06	0. 13000E-07	7570
0. 43000E-08	0. 21500E-09	0. 38900E-07	0. 19000E-07	7889
0. 14700E-08	0. 15000E-09	0. 28600E-07	0. 14300E-08	7890
0. 29600E-08	0. 19000E-09	0. 25800E-07	0. 13000E-08	7891
0. 26000E-07	0. 40000E-08	0. 71000E-06	0. 50000E-07	T064
0. 32000E-08	0. 30000E-09	0. 10000E-06	0. 10000E-07	7169
0. 25000E-01	0. 30000E-02	0. 37000E-01	0. 40000E-02	T065
0. 38000E-02	0. 60000E-03	0. 14000E-01	0. 20000E-02	T086
0. 37000E-02	0. 50000E-03	0. 21000E-01	0. 20000E-02	T048
0. 10000E-02	0. 20000E-03	0. 80000E-02	0. 10000E-02	T066
0. 18000E-04	0. 40000E-05	0. 68000E-04	0. 11000E-04	T055
0. 15000E-04	0. 40000E-05	0. 82000E-04	0. 10000E-04	T056
0. 86000E-03	0. 80000E-04	0. 18000E-02	0. 20000E-03	6311
0. 23000E-03	0. 20000E-04	0. 13000E-02	0. 10000E-03	6789
0. 27000E-03	0. 50000E-04	0. 70000E-02	0. 80000E-03	6786
0. 11600E-03	0. 25000E-04	0. 40000E-03	0. 10000E-03	T117
0. 14000E-03	0. 10000E-04	0. 32000E-02	0. 28000E-03	7058
0. 64000E-04	0. 32000E-05	0. 29000E-02	0. 20000E-03	7063
0. 35000E-04	0. 15000E-04	0. 23000E-03	0. 40000E-04	T004
0. 13000E-04	0. 30000E-05	0. 18000E-04	0. 30000E-05	T006
0. 14000E-02	0. 20000E-03	0. 16000E-01	0. 20000E-02	T030
0. 79000E-04	0. 10000E-04	0. 58000E-03	0. 70000E-04	T069
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0. 11000E-02	0. 10000E-03	0. 62000E-03	0. 80000E-04	6378
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0. 33000E-03	0. 40000E-04	0. 15000E-02	0. 10000E-03	6379
0. 94000E-03	0. 90000E-04	0. 19000E-02	0. 10000E-03	6812
0. 33000E-02	0. 20000E-03	0. 14800E-01	0. 74000E-03	7087
0. 47000E-03	0. 30000E-04	0. 22000E-02	0. 11000E-03	7088
0. 24000E-01	0. 30000E-02	0. 37000E-02	0. 25000E-02	T087
0. 75000E-02	0. 10000E-02	0. 10000E-01	0. 10000E-02	T010
0. 21000E-01	0. 30000E-02	0. 31000E-01	0. 40000E-02	T046
0. 91800E-04	0. 40000E-04	0. 18000E-03	0. 10000E-04	7062
0. 64600E-03	0. 56000E-04	0. 12100E-02	0. 60500E-04	7690
0. 53700E-02	0. 26850E-03	0. 97900E-02	0. 48950E-03	7686
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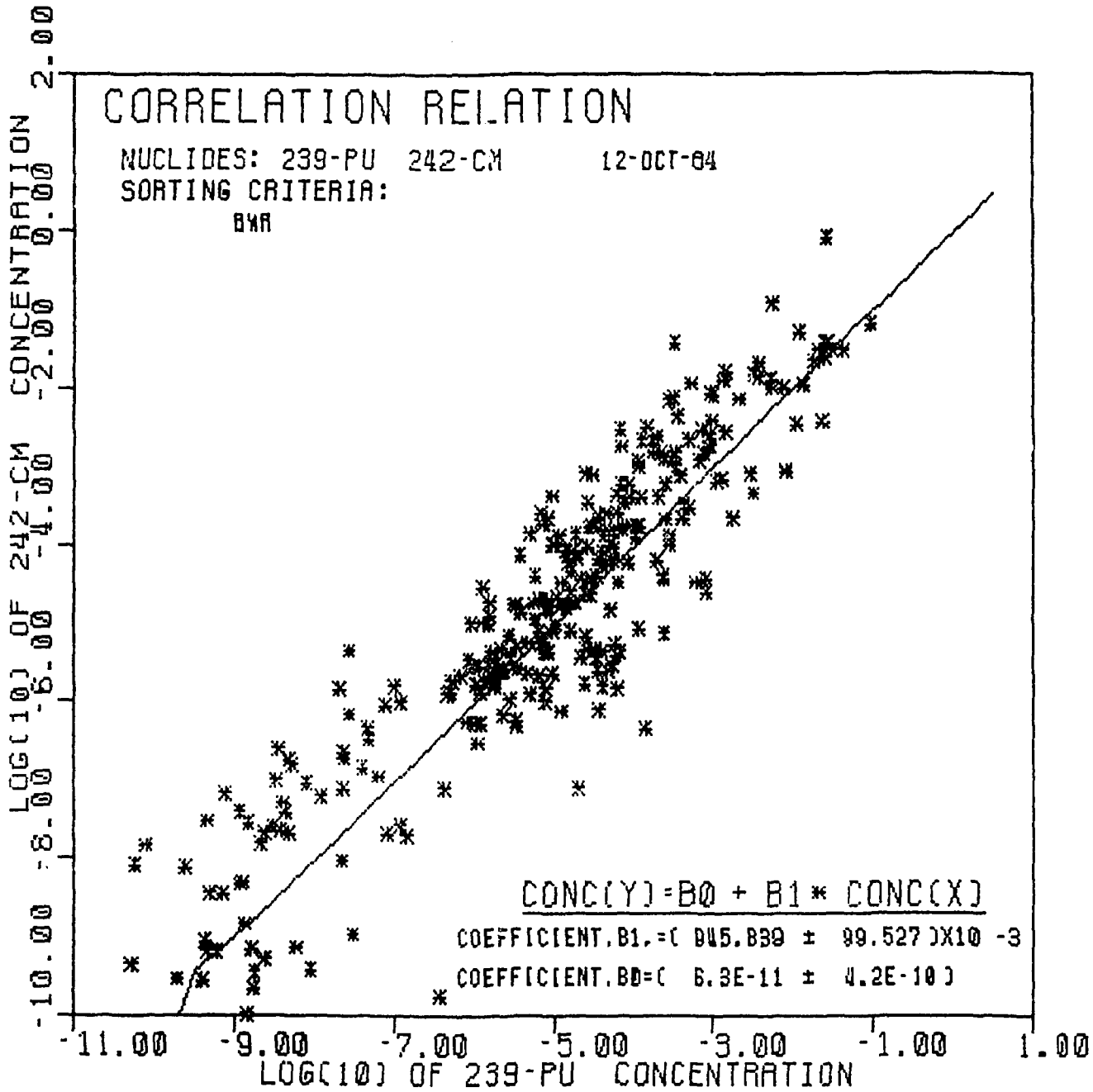


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0. 54900E-02	0. 27000E-03	0. 12200E+00	0. 61000E-02	8023
0. 17000E-02	0. 20000E-03	0. 22000E-03	0. 30000E-04	T038
0. 14000E-02	0. 20000E-03	0. 28000E-02	0. 40000E-03	T009
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0. 32000E-05	0. 10000E-05	0. 50000E-05	0. 10000E-05	T007
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0. 10200E-03	0. 31000E-04	0. 17300E-03	0. 31000E-04	6787
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0. 12000E-01	0. 22000E-02	0. 50900E-01	0. 11000E-01	6790
0. 11000E-03	0. 19000E-04	0. 11500E-02	0. 70000E-04	6827
0. 59000E-04	0. 29500E-05	0. 25000E-03	0. 40000E-04	T005
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0. 11000E-03	0. 10000E-04	0. 85000E-05	0. 10000E-05	6820
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0. 45000E-04	0. 80000E-05	0. 23000E-05	0. 11000E-05	7815
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0. 49000E-05	0. 10000E-05	0. 12700E-05	0. 52000E-06	9332
0. 23000E-04	0. 30000E-05	0. 17000E-05	0. 90000E-06	9333
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0. 93000E-05	0. 50000E-06	0. 23000E-05	0. 30000E-06	9263
0. 21100E-04	0. 10550E-05	0. 36000E-05	0. 50000E-06	9264
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0. 13200E-08	0. 66000E-10	0. 15000E-08	0. 10000E-09	9857
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0. 17700E-04	0. 16000E-05	0. 13900E-03	0. 69500E-05	10125
0. 16800E-03	0. 84000E-05	0. 15700E-02	0. 78500E-04	10126
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0. 20800E-03	0. 10400E-04	0. 14800E-02	0. 10000E-03	10167
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0. 61900E-05	0. 49500E-06	0. 78000E-05	0. 78000E-06	10270
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0. 61312E-05	0. 36787E-06	0. 21578E-05	0. 23736E-06	10320
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0. 74382E-05	0. 16364E-05	0. 10000E-05	0. 60000E-06	10442
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0. 14718E-05	0. 38266E-06	0. 10000E-04	0. 16000E-05	10415
0. 23352E-04	0. 21017E-05	0. 22900E-04	0. 36640E-05	10416
0. 17532E-05	0. 31557E-06	0. 15200E-05	0. 54720E-06	10417
0. 10333E-05	0. 29966E-06	0. 16769E-05	0. 16769E-06	10419
0. 23376E-09	0. 70131E-10	0. 76753E-08	0. 46022E-09	10422
0. 25967E-05	0. 64918E-06	0. 70410E-05	0. 40838E-05	10424
0. 22747E-05	0. 36394E-06	0. 25600E-05	0. 76800E-06	10426
0. 12577E-05	0. 17608E-06	0. 10461E-04	0. 62766E-06	10427
0. 46007E-06	0. 13802E-06	0. 12927E-05	0. 71099E-06	10428
0. 16637E-05	0. 43257E-06	0. 21920E-05	0. 59183E-06	10433
0. 73966E-03	0. 36983E-04	0. 14708E-02	0. 73542E-04	10478
0. 44333E-04	0. 22167E-05	0. 56274E-04	0. 28137E-05	10479
0. 27672E-05	0. 27672E-06	0. 10919E-05	0. 14195E-06	10495
0. 23492E-04	0. 11746E-05	0. 45576E-05	0. 36461E-06	10496
0. 62438E-04	0. 43706E-05	0. 43629E-05	0. 78532E-06	10497
0. 56352E-04	0. 28176E-05	0. 39523E-05	0. 55332E-06	10498
0. 33613E-04	0. 23529E-05	0. 24793E-05	0. 59503E-06	10499
0. 48394E-06	0. 31940E-06	0. 13556E-05	0. 59647E-06	10500
0. 82260E-06	0. 24678E-06	0. 35162E-05	0. 87905E-06	10484
0. 69560E-05	0. 15999E-05	0. 56908E-05	0. 21056E-05	10488
0. 11790E-05	0. 38906E-06	0. 53761E-06	0. 18279E-06	10507
0. 15702E-04	0. 29834E-05	0. 46027E-04	0. 46027E-05	10508
0. 17522E-04	0. 17522E-05	0. 85902E-04	0. 42951E-05	10509
0. 25029E-04	0. 65076E-05	0. 93116E-04	0. 16761E-04	10510
0. 11804E-05	0. 35413E-06	0. 13373E-05	0. 50817E-06	10511
0. 34871E-04	0. 20923E-05	0. 68550E-04	0. 34275E-05	10536
0. 18316E-03	0. 91582E-05	0. 61818E-04	0. 30909E-05	10537

0. 19479E-05	0. 11688E-06	0. 28173E-05	0. 16904E-06	10538
0. 50747E-04	0. 50747E-05	0. 64003E-04	0. 11521E-04	10539
0. 11577E-08	0. 10419E-09	0. 47573E-08	0. 33301E-09	10579
0. 40627E-03	0. 20314E-04	0. 21687E-03	0. 10844E-04	10582
0. 64574E-06	0. 36807E-06	0. 22009E-05	0. 10344E-05	10449
0. 20903E-05	0. 35536E-06	0. 25391E-05	0. 40626E-06	10451
0. 13737E-04	0. 20605E-05	0. 15869E-04	0. 17456E-05	10454
0. 23815E-08	0. 33341E-09	0. 53591E-09	0. 16077E-09	10490
0. 33140E-05	0. 46397E-06	0. 47976E-06	0. 20630E-06	10492
0. 40930E-03	0. 20465E-04	0. 32190E-03	0. 16095E-04	10493
0. 36959E-05	0. 88701E-06	0. 13393E-04	0. 36160E-05	10540
0. 21146E-05	0. 33833E-06	0. 47341E-05	0. 52075E-06	10541
0. 21546E-07	0. 88337E-08	0. 94918E-08	0. 59798E-08	10544
0. 75313E-10	0. 21088E-10	0. 15169E-07	0. 75847E-09	10545
0. 35916E-05	0. 46691E-06	0. 73792E-04	0. 17710E-04	10549
0. 27888E-05	0. 64143E-06	0. 37079E-05	0. 81574E-06	10602
0. 81629E-07	0. 10572E-07	0. 21021E-07	0. 46100E-08	10706
0. 13909E-04	0. 18082E-05	0. 59747E-04	0. 15534E-04	10709
0. 10389E-05	0. 32205E-06	0. 53197E-06	0. 21279E-06	10710
0. 11088E-05	0. 38808E-06	0. 29060E-05	0. 66838E-06	10711
0. 15093E-04	0. 12075E-05	0. 25800E-04	0. 67079E-05	10715
0. 22018E-05	0. 46239E-06	0. 68472E-06	0. 29443E-06	10716
0. 31205E-04	0. 49928E-05	0. 47372E-05	0. 22265E-05	10696
0. 37252E-04	0. 18626E-05	0. 55245E-04	0. 33147E-05	10697
0. 28887E-02	0. 14444E-03	0. 80902E-03	0. 40451E-04	10698
0. 52318E-04	0. 62782E-05	0. 30201E-05	0. 18120E-05	10699
0. 28321E-04	0. 36817E-05	0. 17256E-03	0. 10353E-04	10813
0. 34931E-04	0. 34931E-05	0. 20498E-03	0. 10249E-04	10814
0. 23953E-04	0. 64673E-05	0. 67799E-05	0. 34577E-05	10876
0. 12021E-06	0. 30052E-07	0. 27424E-07	0. 13986E-07	10878



## CORRELATION RESULTS

Nuclides Tested for Correlation are 239-PU and 238-PU

Test made on 22-OCT-84

Sorting Criteria are :

BWR

Number of entries in the fit is 323

Zero Offset Value, B0, is  $-1.89220E-11$

Correlation Ratio, B1, is  $1.37062E+00$

Standard Deviation in B0 is  $1.36571E-10$

Standard Deviation in B1 is  $8.92814E-02$

F-TEST Value is 876.541

Confidence Level for this Correlation is: 99. %

## BWR

0. 12000E-06	0. 20000E-07	0. 91000E-07	0. 10000E-07	T050
0. 49000E-08	0. 30000E-09	0. 11200E-07	0. 60000E-09	7048
0. 22000E-07	0. 20000E-08	0. 21000E-07	0. 20000E-08	T094
0. 23000E-07	0. 70000E-08	0. 45000E-07	0. 15000E-07	T002
0. 50000E-08	0. 60000E-09	0. 11000E-07	0. 20000E-08	4727
0. 97000E-07	0. 10000E-07	0. 16000E-06	0. 30000E-07	T031
0. 26000E-07	0. 30000E-08	0. 62000E-07	0. 10000E-07	6826
0. 47000E-08	0. 40000E-09	0. 85000E-08	0. 60000E-09	6806
0. 21000E-08	0. 50000E-09	0. 42000E-08	0. 80000E-09	7052
0. 78000E-08	0. 10000E-08	0. 12200E-07	0. 20000E-08	T085
0. 75000E-07	0. 90000E-08	0. 12000E-06	0. 10000E-07	6366
0. 49000E-08	0. 15000E-08	0. 19000E-08	0. 40000E-09	T016
0. 50000E-06	0. 70000E-07	0. 33000E-06	0. 50000E-07	T036
0. 44000E-07	0. 60000E-08	0. 29000E-07	0. 40000E-08	T037
0. 46000E-09	0. 70000E-10	0. 46000E-09	0. 70000E-10	T090
0. 70000E-09	0. 20000E-09	0. 70000E-09	0. 40000E-09	6814
0. 16000E-08	0. 10000E-09	0. 10200E-08	0. 80000E-10	7132
0. 52000E-10	0. 10000E-10	0. 89000E-10	0. 15000E-10	6976
0. 38000E-08	0. 30000E-09	0. 99000E-08	0. 12000E-08	7392
0. 43000E-09	0. 11000E-09	0. 17000E-08	0. 20000E-09	7394
0. 19000E-09	0. 10000E-09	0. 25000E-09	0. 10000E-09	6975
0. 38000E-09	0. 50000E-10	0. 46000E-09	0. 60000E-10	7393
0. 24000E-08	0. 60000E-09	0. 57000E-08	0. 10000E-08	T028
0. 13300E-06	0. 11000E-07	0. 27000E-06	0. 16000E-07	T017
0. 46500E-07	0. 59000E-08	0. 72700E-07	0. 87000E-08	7442
0. 39100E-08	0. 26000E-09	0. 72500E-08	0. 38000E-09	7656
0. 34800E-08	0. 17400E-09	0. 12600E-07	0. 63000E-09	7570
0. 33300E-09	0. 48000E-10	0. 42500E-09	0. 55000E-10	7652
0. 43000E-08	0. 21500E-09	0. 94700E-08	0. 47350E-09	7889
0. 27400E-09	0. 53000E-10	0. 31300E-09	0. 56000E-10	7649
0. 14700E-08	0. 15000E-09	0. 47800E-08	0. 29000E-09	7890
0. 57400E-09	0. 69000E-10	0. 66900E-09	0. 80000E-10	7651
0. 29600E-08	0. 19000E-09	0. 77500E-08	0. 39000E-09	7891
0. 26000E-07	0. 40000E-08	0. 47000E-07	0. 70000E-08	T064
0. 32000E-08	0. 30000E-09	0. 55000E-08	0. 40000E-09	7169
0. 25000E-01	0. 30000E-02	0. 39000E-01	0. 50000E-02	T065
0. 38000E-02	0. 60000E-03	0. 57000E-02	0. 70000E-03	T086
0. 37000E-02	0. 50000E-03	0. 61000E-02	0. 90000E-03	T048
0. 10000E-02	0. 20000E-03	0. 27000E-02	0. 40000E-03	T066
0. 18000E-04	0. 40000E-05	0. 53000E-04	0. 60000E-05	T055
0. 15000E-04	0. 40000E-05	0. 35000E-04	0. 50000E-05	T056
0. 86000E-03	0. 80000E-04	0. 48000E-03	0. 60000E-04	6311
0. 23000E-03	0. 20000E-04	0. 85000E-03	0. 10000E-03	6789
0. 27000E-03	0. 50000E-04	0. 74000E-03	0. 15000E-03	6786
0. 11600E-03	0. 25000E-04	0. 14000E-03	0. 20000E-04	T117
0. 14000E-03	0. 10000E-04	0. 80000E-03	0. 40000E-04	7058
0. 64000E-04	0. 32000E-05	0. 14000E-03	0. 10000E-04	7063
0. 35000E-04	0. 15000E-04	0. 83000E-04	0. 41500E-05	T004
0. 13000E-04	0. 30000E-05	0. 19000E-04	0. 40000E-05	T006
0. 14000E-02	0. 20000E-03	0. 30000E-02	0. 40000E-03	T030
0. 79000E-04	0. 10000E-04	0. 45000E-03	0. 10000E-03	T069
0. 13000E-05	0. 20000E-06	0. 16000E-05	0. 20000E-06	6996
0. 22200E-05	0. 27000E-06	0. 62900E-06	0. 15000E-06	7401
0. 11000E-02	0. 10000E-03	0. 21000E-02	0. 30000E-03	6378
0. 21000E-02	0. 20000E-03	0. 37000E-02	0. 30000E-03	6813
0. 33000E-03	0. 40000E-04	0. 95000E-03	0. 12000E-03	6379
0. 94000E-03	0. 90000E-04	0. 18000E-02	0. 20000E-03	6812
0. 33000E-02	0. 20000E-03	0. 60000E-02	0. 30000E-03	7087
0. 47000E-03	0. 30000E-04	0. 96000E-03	0. 50000E-04	7088
0. 24000E-01	0. 30000E-02	0. 90000E-02	0. 12000E-02	T087
0. 75000E-02	0. 10000E-02	0. 95000E-02	0. 15000E-02	T010

0. 21000E-01	0. 30000E-02	0. 28000E-01	0. 40000E-02	T046
0. 91800E-04	0. 40000E-04	0. 20900E-03	0. 10450E-04	7062
0. 64600E-03	0. 56000E-04	0. 13000E-02	0. 11000E-03	7690
0. 53700E-02	0. 26850E-03	0. 82500E-02	0. 41250E-03	7686
0. 12400E-02	0. 70000E-03	0. 17400E-02	0. 10000E-03	7813
0. 33600E-03	0. 17000E-04	0. 77900E-03	0. 39000E-04	7913
0. 93200E-03	0. 56000E-04	0. 17200E-02	0. 10000E-03	7915
0. 14000E-03	0. 70000E-05	0. 61200E-03	0. 31000E-04	7456
0. 13700E-02	0. 70000E-03	0. 26700E-02	0. 13350E-03	7449
0. 25300E-05	0. 24000E-06	0. 71700E-05	0. 41000E-06	7588
0. 31800E-03	0. 26000E-04	0. 91400E-03	0. 55000E-04	7589
0. 26200E-04	0. 13100E-05	0. 45400E-04	0. 23000E-05	8002
0. 32200E-04	0. 30000E-05	0. 97100E-04	0. 49000E-05	7151
0. 25000E-04	0. 20000E-05	0. 10000E-04	0. 50000E-05	7150
0. 51400E-04	0. 55000E-05	0. 15400E-03	0. 13000E-04	7674
0. 54900E-02	0. 27000E-03	0. 11400E-01	0. 57000E-03	8023
0. 11000E-03	0. 20000E-04	0. 18000E-03	0. 20000E-04	T011
0. 17000E-02	0. 20000E-03	0. 13000E-02	0. 20000E-03	T038
0. 14000E-02	0. 20000E-03	0. 28000E-02	0. 50000E-03	T009
0. 11000E-04	0. 40000E-05	0. 26000E-04	0. 20000E-05	T029
0. 24000E-03	0. 40000E-04	0. 41000E-03	0. 20500E-04	T003
0. 32000E-05	0. 10000E-05	0. 71000E-05	0. 10000E-05	T007
0. 53000E-04	0. 50000E-05	0. 54000E-04	0. 50000E-05	T051
0. 54000E-05	0. 60000E-06	0. 57000E-05	0. 60000E-06	T054
0. 31000E-05	0. 40000E-06	0. 50000E-05	0. 60000E-06	T052
0. 26000E-01	0. 13000E-02	0. 30000E-02	0. 20000E-02	T112
0. 36400E-03	0. 18200E-04	0. 30100E-03	0. 15050E-04	7450
0. 53200E-02	0. 27000E-03	0. 90900E-02	0. 45450E-03	7452
0. 64000E-04	0. 10000E-04	0. 14000E-03	0. 20000E-04	T070
0. 72000E-03	0. 10000E-03	0. 11400E-02	0. 15000E-03	T091
0. 10200E-03	0. 31000E-04	0. 13200E-03	0. 31000E-04	6787
0. 93300E-03	0. 74000E-04	0. 19100E-03	0. 11000E-04	6792
0. 12000E-01	0. 22000E-02	0. 82100E-01	0. 22000E-01	6790
0. 11000E-03	0. 19000E-04	0. 20600E-03	0. 21000E-04	6827
0. 59000E-04	0. 29500E-05	0. 17000E-03	0. 30000E-04	T005
0. 17600E-04	0. 27000E-05	0. 32400E-04	0. 27000E-05	7014
0. 28700E-04	0. 15000E-05	0. 86100E-04	0. 43050E-05	7448
0. 29600E-03	0. 24000E-04	0. 72600E-03	0. 44000E-04	7446
0. 58000E-04	0. 80000E-05	0. 30000E-04	0. 40000E-05	6821
0. 83000E-05	0. 20000E-05	0. 20000E-05	0. 10000E-05	6816
0. 35000E-04	0. 50000E-05	0. 27000E-04	0. 50000E-05	6818
0. 64000E-05	0. 10000E-05	0. 30000E-05	0. 20000E-05	6819
0. 20000E-04	0. 40000E-05	0. 13000E-04	0. 40000E-05	6823
0. 51000E+00	0. 50000E-01	0. 22000E+00	0. 20000E-01	T025
0. 50000E-02	0. 10000E-02	0. 24000E-02	0. 50000E-03	T023
0. 12000E-04	0. 30000E-05	0. 12000E-04	0. 30000E-05	6815
0. 11000E-03	0. 10000E-04	0. 64000E-04	0. 32000E-05	6820
0. 15000E-05	0. 10000E-05	0. 12000E-04	0. 50000E-05	6825
0. 12000E-04	0. 20000E-05	0. 86000E-05	0. 80000E-06	6824
0. 10000E-03	0. 30000E-04	0. 50000E-04	0. 30000E-04	6822
0. 31000E-03	0. 30000E-04	0. 68000E-03	0. 50000E-04	T168
0. 71000E-05	0. 35000E-05	0. 13000E-04	0. 50000E-05	7003
0. 60000E-04	0. 60000E-05	0. 74000E-04	0. 60000E-05	7076
0. 70000E-04	0. 10000E-04	0. 15000E-03	0. 30000E-04	T012
0. 48000E-04	0. 10000E-04	0. 66000E-04	0. 10000E-04	T008
0. 96000E-03	0. 15000E-03	0. 11000E-02	0. 20000E-03	T026
0. 82000E-03	0. 20000E-03	0. 36000E-03	0. 10000E-03	T022
0. 81400E-04	0. 65000E-05	0. 11600E-03	0. 70000E-05	7809
0. 28000E-04	0. 32000E-05	0. 47600E-04	0. 43000E-05	7810
0. 67300E-05	0. 78000E-06	0. 17500E-05	0. 39000E-06	T500
0. 79700E-03	0. 22300E-03	0. 23100E-03	0. 72000E-04	T700
0. 76000E-05	0. 55000E-06	0. 14800E-04	0. 80000E-06	K001
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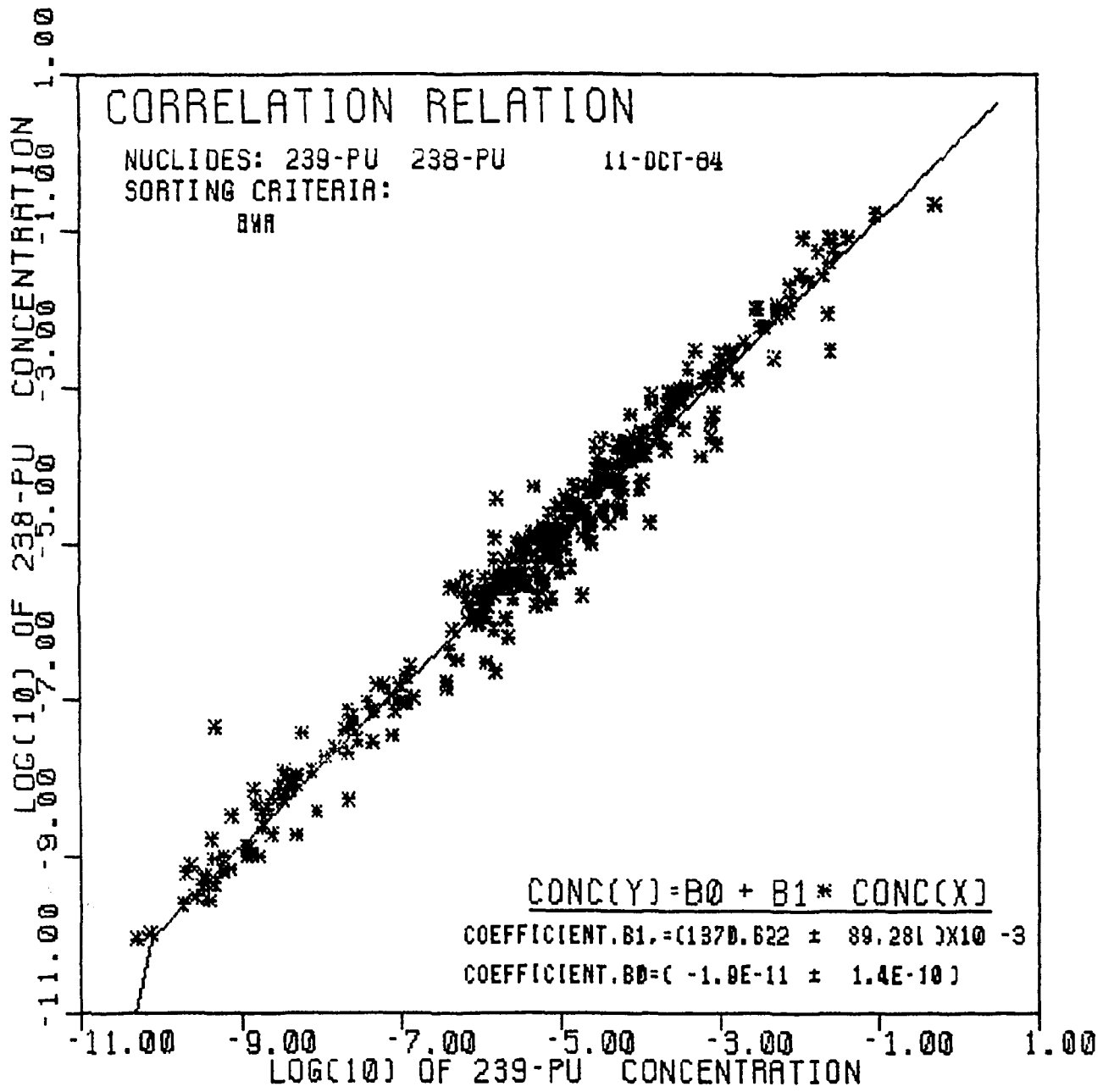


0. 23000E-03	0. 70000E-04	0. 80000E-03	0. 20000E-03	7700M
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0. 29000E-01	0. 14500E-02	0. 55000E-01	0. 27500E-02	9686
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0. 42000E-01	0. 21000E-02	0. 83000E-01	0. 41500E-02	9688
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0. 27000E-03	0. 13500E-04	0. 65000E-03	0. 32500E-04	9367
0. 13400E-01	0. 70000E-03	0. 23000E-01	0. 11500E-02	9636
0. 51000E-03	0. 30000E-04	0. 29000E-02	0. 14500E-03	9637
0. 29000E-04	0. 20000E-05	0. 52000E-04	0. 30000E-05	9634
0. 35000E-03	0. 20000E-04	0. 71000E-03	0. 40000E-04	9635
0. 81000E-02	0. 40500E-03	0. 14100E-01	0. 70500E-03	9117
0. 42000E-04	0. 21000E-05	0. 82000E-04	0. 41000E-05	9118
0. 53000E-04	0. 30000E-05	0. 10600E-03	0. 53000E-05	9119
0. 15000E-04	0. 10000E-05	0. 34000E-04	0. 17000E-05	9846
0. 24000E-03	0. 12000E-04	0. 48000E-03	0. 24000E-04	9847
0. 13000E-04	0. 20000E-05	0. 33000E-04	0. 14000E-04	9799
0. 11000E-03	0. 10000E-04	0. 25000E-03	0. 20000E-04	9800
0. 32000E-04	0. 30000E-05	0. 79000E-04	0. 50000E-05	9801
0. 87000E-04	0. 50000E-05	0. 23000E-03	0. 11500E-04	9802
0. 11200E-03	0. 60000E-05	0. 27000E-03	0. 13500E-04	9803
0. 31500E-02	0. 15750E-03	0. 10100E-01	0. 50500E-03	9804
0. 45000E-04	0. 80000E-05	0. 90000E-04	0. 10000E-04	7815
0. 11900E-05	0. 19000E-06	0. 23000E-05	0. 30000E-06	7816
0. 85000E-06	0. 15000E-06	0. 13000E-05	0. 20000E-06	7819
0. 19200E-04	0. 96000E-06	0. 22000E-05	0. 30000E-06	9329
0. 21000E-05	0. 40000E-06	0. 11000E-05	0. 30000E-06	9330
0. 59000E-03	0. 12000E-03	0. 13200E-03	0. 45000E-04	9331
0. 49000E-05	0. 10000E-05	0. 40000E-05	0. 90000E-06	9332
0. 23000E-04	0. 30000E-05	0. 12600E-04	0. 20000E-05	9333
0. 39000E-09	0. 60000E-10	0. 28000E-09	0. 50000E-10	9262
0. 93000E-05	0. 50000E-06	0. 10500E-04	0. 52500E-06	9263
0. 21100E-04	0. 10550E-05	0. 24200E-04	0. 12100E-05	9264
0. 97000E-06	0. 60000E-07	0. 99000E-06	0. 60000E-07	9854
0. 56000E-05	0. 30000E-06	0. 38000E-05	0. 30000E-06	9856
0. 13200E-08	0. 66000E-10	0. 10700E-08	0. 53500E-10	9857
0. 59000E-04	0. 29500E-05	0. 26000E-04	0. 13000E-05	9806
0. 12500E-05	0. 14000E-06	0. 16000E-05	0. 20000E-06	9807
0. 90000E-05	0. 45000E-06	0. 56000E-05	0. 30000E-06	9808
0. 11000E-01	0. 10000E-02	0. 27000E-01	0. 13500E-02	9386
0. 60000E-09	0. 12000E-09	0. 10000E-08	0. 20000E-09	9978
0. 13500E-03	0. 70000E-04	0. 19000E-04	0. 20000E-05	9980
0. 44000E-05	0. 22000E-06	0. 77000E-05	0. 38500E-06	9981
0. 48000E-04	0. 80000E-05	0. 78000E-04	0. 10000E-04	9982
0. 20900E-04	0. 11000E-05	0. 54700E-04	0. 27350E-05	10029
0. 12000E-04	0. 90000E-06	0. 41300E-04	0. 20650E-05	10030
0. 62600E-05	0. 46000E-06	0. 15700E-04	0. 80000E-06	10031
0. 82000E-06	0. 12000E-06	0. 23300E-05	0. 21000E-06	9997
0. 72600E-05	0. 68000E-06	0. 75500E-05	0. 70000E-06	9998
0. 80500E-05	0. 60000E-06	0. 75400E-05	0. 58000E-06	9999
0. 32000E-05	0. 50000E-06	0. 91900E-05	0. 86000E-06	10000
0. 42000E-06	0. 90000E-07	0. 28000E-05	0. 60000E-06	10003
0. 17000E-05	0. 20000E-06	0. 27000E-05	0. 30000E-06	10084
0. 52000E-07	0. 16000E-07	0. 16000E-06	0. 30000E-07	10086
0. 12000E-07	0. 20000E-08	0. 19000E-07	0. 20000E-08	10088
0. 73200E-04	0. 36600E-05	0. 15600E-03	0. 78000E-05	9969
0. 67800E-04	0. 42000E-05	0. 15300E-03	0. 76500E-05	9970

0. 38300E-07	0. 26000E-08	0. 94300E-07	0. 47150E-08	9922
0. 17700E-04	0. 16000E-05	0. 31300E-04	0. 22000E-05	10125
0. 16800E-03	0. 84000E-05	0. 31000E-03	0. 15500E-04	10126
0. 64600E-04	0. 41000E-05	0. 12000E-03	0. 63000E-05	10127
0. 12200E-03	0. 94000E-05	0. 25200E-03	0. 17000E-04	10128
0. 24100E-04	0. 19600E-05	0. 47300E-04	0. 29400E-05	10129
0. 88900E-05	0. 84200E-06	0. 18600E-04	0. 12600E-05	10130
0. 19300E-07	0. 11000E-08	0. 42100E-07	0. 21050E-08	10131
0. 75800E-09	0. 77000E-10	0. 34800E-08	0. 17400E-09	10132
0. 18700E-03	0. 96000E-05	0. 23900E-03	0. 12000E-04	10133
0. 16600E-03	0. 83000E-05	0. 21400E-03	0. 10700E-04	10134
0. 48300E-05	0. 95000E-06	0. 11500E-04	0. 15000E-05	10135
0. 80000E-05	0. 81000E-06	0. 15300E-04	0. 76500E-06	10136
0. 26800E-03	0. 14000E-04	0. 86000E-03	0. 43000E-04	10168
0. 60900E-07	0. 16000E-07	0. 15500E-06	0. 25000E-07	10162
0. 25300E-04	0. 13000E-05	0. 19800E-04	0. 10000E-05	10166
0. 20800E-03	0. 10400E-04	0. 16200E-03	0. 81000E-05	10167
0. 54000E-05	0. 11000E-05	0. 22000E-05	0. 70000E-06	10186
0. 88400E-08	0. 17014E-08	0. 38100E-08	0. 11029E-08	10185
0. 42000E-04	0. 50000E-05	0. 19000E-04	0. 30000E-05	10188
0. 49000E-05	0. 11000E-05	0. 52400E-04	0. 37000E-05	10189
0. 14386E-08	0. 60620E-09	0. 71610E-08	0. 15303E-08	10193
0. 37608E-06	0. 45129E-07	0. 14849E-06	0. 28213E-07	10194
0. 22000E-07	0. 11000E-08	0. 55341E-08	0. 49807E-09	10195
0. 90651E-06	0. 11785E-06	0. 94444E-06	0. 11333E-06	10200
0. 10971E-05	0. 32913E-06	0. 16584E-05	0. 41460E-06	10201
0. 41363E-04	0. 20682E-05	0. 30958E-04	0. 15479E-05	10202
0. 99945E-05	0. 59967E-06	0. 42082E-05	0. 42082E-06	10203
0. 17918E-05	0. 57336E-06	0. 27348E-05	0. 71104E-06	10204
0. 38883E-04	0. 19442E-05	0. 90311E-04	0. 45156E-05	10190
0. 38485E-04	0. 34636E-05	0. 61924E-04	0. 43347E-05	10191
0. 58072E-08	0. 73524E-09	0. 38267E-07	0. 18913E-08	10259
0. 54782E-04	0. 32869E-05	0. 20522E-03	0. 10261E-04	10261
0. 17261E-08	0. 57806E-09	0. 35929E-08	0. 84149E-09	10262
0. 36372E-06	0. 90931E-07	0. 17320E-06	0. 62352E-07	10264
0. 14220E-06	0. 32706E-07	0. 10852E-06	0. 28216E-07	10265
0. 44691E-09	0. 18770E-09	0. 95211E-09	0. 27611E-09	10266
0. 12327E-08	0. 17258E-09	0. 13094E-08	0. 17022E-09	10267
0. 17746E-08	0. 15971E-09	0. 24614E-08	0. 17230E-09	10268
0. 65632E-05	0. 85322E-06	0. 68053E-05	0. 88469E-06	10269
0. 61900E-05	0. 49500E-06	0. 35000E-05	0. 38500E-06	10270
0. 32683E-05	0. 29414E-06	0. 28242E-05	0. 28242E-06	10271
0. 73237E-05	0. 14647E-05	0. 69938E-05	0. 13988E-05	10318
0. 10370E-04	0. 62219E-06	0. 32207E-04	0. 16104E-05	10319
0. 61312E-05	0. 36787E-06	0. 15379E-04	0. 76897E-06	10320
0. 29888E-07	0. 94311E-08	0. 30732E-07	0. 93710E-08	10345
0. 14669E-05	0. 24937E-06	0. 35271E-05	0. 38798E-06	10347
0. 70200E-04	0. 25974E-04	0. 20000E-03	0. 44000E-04	10348
0. 49092E-09	0. 15218E-09	0. 45527E-07	0. 88501E-08	10382
0. 22647E-03	0. 58881E-04	0. 57726E-03	0. 14431E-03	10384
0. 19517E-03	0. 97585E-05	0. 39213E-03	0. 19607E-04	10385
0. 33691E-05	0. 40430E-06	0. 78657E-05	0. 62926E-06	10386
0. 74382E-05	0. 16364E-05	0. 23058E-04	0. 29976E-05	10442
0. 79000E-05	0. 86900E-06	0. 77900E-05	0. 85690E-06	10407
0. 15097E-05	0. 24155E-06	0. 22226E-05	0. 28893E-06	10408
0. 11413E-08	0. 12501E-09	0. 13618E-08	0. 13526E-09	10412
0. 14993E-05	0. 32984E-06	0. 23483E-06	0. 12915E-06	10414
0. 14718E-05	0. 38266E-06	0. 62700E-05	0. 81510E-06	10415
0. 23352E-04	0. 21017E-05	0. 18573E-04	0. 18573E-05	10416
0. 17532E-05	0. 31557E-06	0. 37027E-05	0. 44432E-06	10417
0. 18934E-05	0. 34082E-06	0. 26448E-05	0. 39672E-06	10418
0. 10333E-05	0. 29966E-06	0. 20881E-05	0. 41763E-06	10419
0. 23376E-09	0. 70131E-10	0. 76539E-09	0. 12241E-09	10422

0. 25967E-05	0. 64918E-06	0. 19685E-05	0. 57086E-06	10424
0. 60632E-05	0. 48506E-06	0. 10264E-04	0. 61586E-06	10425
0. 22747E-05	0. 36394E-06	0. 28019E-05	0. 39227E-06	10426
0. 12577E-05	0. 17608E-06	0. 23771E-05	0. 23771E-06	10427
0. 46007E-06	0. 13802E-06	0. 77375E-06	0. 17796E-06	10428
0. 16637E-05	0. 43257E-06	0. 39585E-05	0. 67295E-06	10433
0. 72231E-06	0. 18058E-06	0. 10951E-05	0. 21902E-06	10434
0. 84432E-07	0. 13509E-07	0. 73607E-07	0. 12513E-07	10477
0. 73966E-03	0. 36983E-04	0. 14414E-02	0. 72072E-04	10478
0. 44333E-04	0. 22167E-05	0. 88329E-04	0. 44164E-05	10479
0. 63444E-06	0. 26012E-06	0. 24849E-05	0. 52182E-06	10494
0. 27672E-05	0. 27672E-06	0. 41579E-05	0. 33263E-06	10495
0. 23492E-04	0. 11746E-05	0. 16699E-04	0. 83495E-06	10496
0. 62438E-04	0. 43706E-05	0. 50600E-04	0. 40480E-05	10497
0. 56352E-04	0. 28176E-05	0. 42173E-04	0. 21087E-05	10498
0. 33613E-04	0. 23529E-05	0. 24665E-04	0. 19732E-05	10499
0. 48394E-06	0. 31940E-06	0. 30112E-05	0. 78290E-06	10500
0. 15057E-07	0. 64624E-08	0. 24651E-07	0. 85389E-08	10482
0. 82260E-06	0. 24678E-06	0. 14582E-05	0. 33540E-06	10484
0. 11617E-05	0. 17425E-06	0. 30304E-06	0. 87882E-07	10485
0. 96498E-07	0. 40529E-07	0. 96498E-07	0. 40529E-07	10486
0. 40783E-06	0. 21615E-06	0. 43696E-06	0. 22285E-06	10487
0. 69560E-05	0. 15999E-05	0. 14293E-04	0. 22869E-05	10488
0. 11790E-05	0. 38906E-06	0. 11471E-05	0. 37855E-06	10507
0. 15702E-04	0. 29834E-05	0. 23257E-04	0. 37211E-05	10508
0. 17522E-04	0. 17522E-05	0. 25805E-04	0. 20644E-05	10509
0. 25029E-04	0. 65076E-05	0. 46930E-04	0. 89166E-05	10510
0. 11804E-05	0. 35413E-06	0. 17438E-05	0. 43595E-06	10511
0. 34871E-04	0. 20923E-05	0. 95117E-04	0. 47559E-05	10536
0. 18316E-03	0. 91582E-05	0. 37759E-03	0. 18880E-04	10537
0. 19479E-05	0. 11688E-06	0. 44246E-05	0. 22123E-06	10538
0. 50747E-04	0. 50747E-05	0. 97849E-04	0. 68494E-05	10539
0. 11577E-08	0. 10419E-09	0. 10235E-08	0. 10235E-09	10579
0. 40627E-03	0. 20314E-04	0. 99702E-03	0. 49851E-04	10582
0. 64574E-06	0. 36807E-06	0. 38744E-05	0. 89112E-06	10449
0. 35357E-05	0. 10607E-05	0. 10687E-04	0. 18169E-05	10450
0. 20903E-05	0. 35536E-06	0. 57094E-05	0. 57094E-06	10451
0. 74923E-05	0. 11238E-05	0. 13549E-04	0. 14904E-05	10452
0. 14625E-04	0. 74590E-05	0. 55577E-04	0. 14450E-04	10453
0. 13737E-04	0. 20605E-05	0. 51911E-05	0. 12459E-05	10454
0. 35273E-09	0. 10935E-09	0. 58502E-09	0. 14040E-09	10455
0. 23815E-08	0. 33341E-09	0. 19902E-08	0. 29852E-09	10490
0. 33140E-05	0. 46397E-06	0. 37244E-05	0. 48417E-06	10492
0. 40930E-03	0. 20465E-04	0. 17072E-02	0. 85360E-04	10493
0. 36959E-05	0. 88701E-06	0. 28389E-05	0. 79488E-06	10540
0. 21146E-05	0. 33833E-06	0. 31105E-05	0. 40436E-06	10541
0. 20865E-09	0. 91805E-10	0. 62595E-09	0. 16274E-09	10543
0. 21546E-07	0. 88337E-08	0. 74941E-07	0. 16487E-07	10544
0. 75313E-10	0. 21088E-10	0. 10512E-09	0. 25230E-10	10545
0. 69141E-06	0. 25582E-06	0. 17532E-05	0. 40324E-06	10547
0. 61884E-05	0. 99014E-06	0. 12543E-04	0. 13797E-05	10548
0. 35916E-05	0. 46691E-06	0. 29534E-05	0. 41348E-06	10549
0. 51858E-05	0. 18669E-05	0. 15557E-05	0. 10268E-05	10550
0. 11868E-05	0. 39164E-06	0. 16615E-05	0. 46522E-06	10601
0. 27888E-05	0. 64143E-06	0. 10409E-04	0. 12491E-05	10602
0. 81629E-07	0. 10572E-07	0. 35304E-07	0. 68829E-08	10706
0. 13909E-04	0. 18082E-05	0. 32054E-04	0. 25643E-05	10709
0. 10389E-05	0. 32205E-06	0. 24413E-05	0. 48827E-06	10710
0. 11088E-05	0. 38808E-06	0. 36125E-05	0. 68638E-06	10711
0. 53492E-05	0. 96285E-06	0. 95651E-05	0. 12435E-05	10712
0. 10975E-05	0. 32924E-06	0. 20904E-05	0. 45989E-06	10713
0. 14737E-05	0. 38316E-06	0. 77563E-06	0. 27923E-06	10714
0. 15093E-04	0. 12075E-05	0. 18855E-04	0. 13198E-05	10715

0. 22018E-05	0. 46239E-06	0. 38230E-05	0. 61168E-06	10716
0. 39945E-04	0. 13182E-04	0. 89020E-04	0. 19584E-04	10717
0. 31205E-04	0. 49928E-05	0. 12504E-03	0. 10003E-04	10696
0. 37252E-04	0. 18626E-05	0. 10528E-03	0. 52639E-05	10697
0. 28887E-02	0. 14444E-03	0. 10036E-01	0. 50181E-03	10698
0. 52318E-04	0. 62782E-05	0. 15489E-03	0. 10343E-04	10699
0. 28321E-04	0. 36817E-05	0. 17167E-03	0. 85836E-05	10813
0. 34931E-04	0. 34931E-05	0. 21948E-03	0. 10974E-04	10814
0. 23953E-04	0. 64673E-05	0. 51973E-04	0. 93552E-05	10876
0. 12021E-06	0. 30052E-07	0. 20494E-06	0. 38939E-07	10878



## CORRELATION RESULTS

Nuclides Tested for Correlation are 239-PU and 241-PU

Test made on 17-OCT-84

Sorting Criteria are :

BWR

Number of entries in the fit is 167

Zero Offset Value, B0, is 6.81681E-08

Correlation Ratio, B1, is 3.64427E+01

Standard Deviation in B0 is 5.82027E-08

Standard Deviation in B1 is 4.48543E+00

F-TEST Value is 108.753

Confidence Level for this Correlation is: 99. %

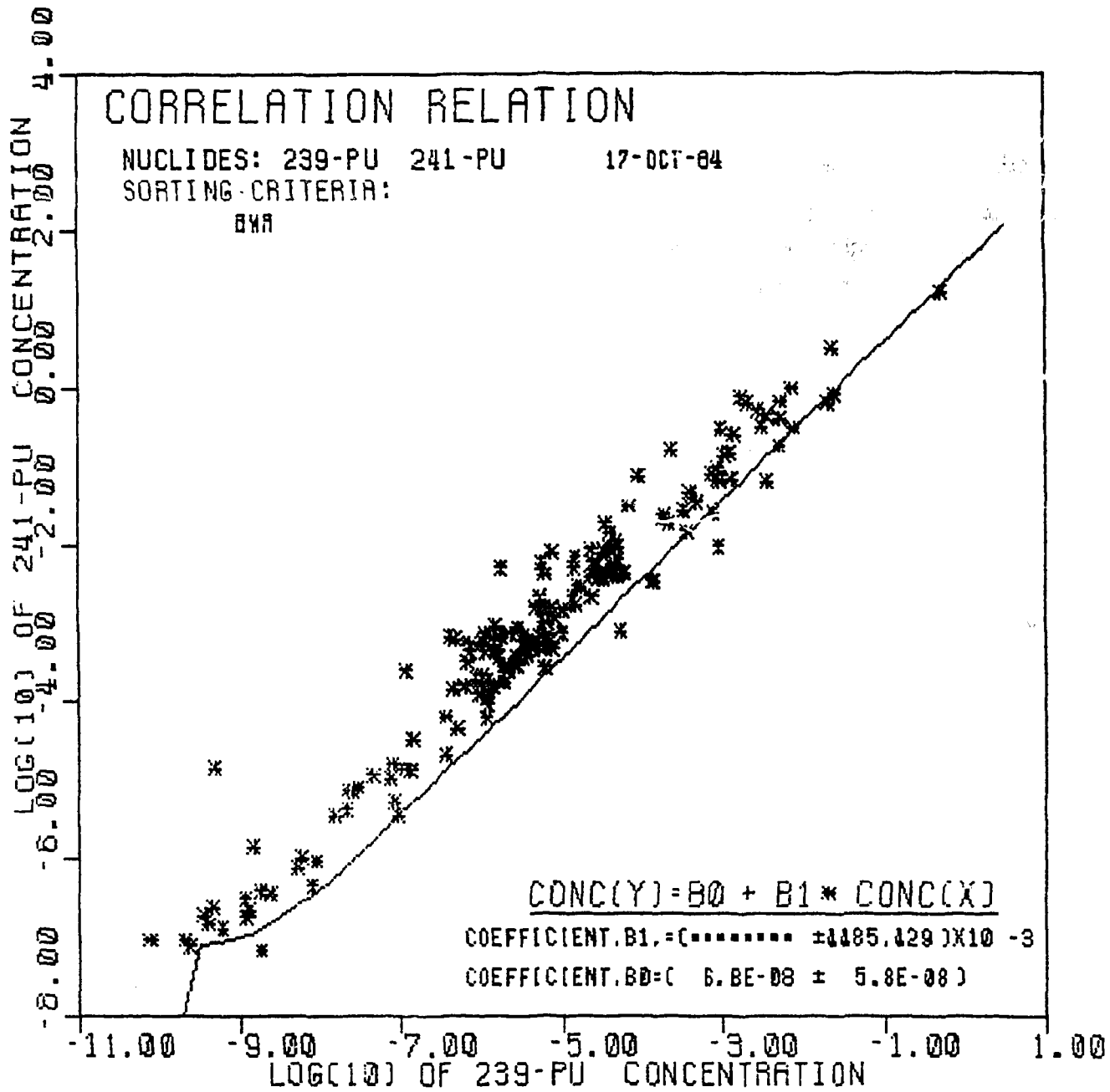
## BWR

0. 12000E-06	0. 20000E-07	0. 14000E-04	0. 25000E-05	T050
0. 50000E-08	0. 60000E-09	0. 78000E-06	0. 47000E-06	4727
0. 78000E-08	0. 10000E-08	0. 47200E-06	0. 37800E-07	T085
0. 75000E-07	0. 90000E-08	0. 10700E-04	0. 80000E-06	6366
0. 50000E-06	0. 70000E-07	0. 46000E-04	0. 10000E-04	T036
0. 44000E-07	0. 60000E-08	0. 11600E-04	0. 26000E-05	T037
0. 13300E-06	0. 11000E-07	0. 13700E-04	0. 25000E-05	T017
0. 26000E-07	0. 40000E-08	0. 73100E-05	0. 16000E-05	T064
0. 25000E-01	0. 30000E-02	0. 81500E+00	0. 63000E-01	T065
0. 38000E-02	0. 60000E-03	0. 62900E-01	0. 24800E-02	T086
0. 37000E-02	0. 50000E-03	0. 44000E+00	0. 88000E-01	T048
0. 10000E-02	0. 20000E-03	0. 29700E+00	0. 18000E-01	T066
0. 14000E-03	0. 10000E-04	0. 34000E-02	0. 22000E-02	7058
0. 35000E-04	0. 15000E-04	0. 19000E-01	0. 49000E-02	T004
0. 14000E-02	0. 20000E-03	0. 25000E+00	0. 10000E+00	T030
0. 11000E-02	0. 10000E-03	0. 13700E+00	0. 50000E-02	6378
0. 21000E-02	0. 20000E-03	0. 62600E+00	0. 31300E-01	6813
0. 94000E-03	0. 90000E-04	0. 95000E-02	0. 47500E-03	6812
0. 33000E-02	0. 20000E-03	0. 31900E+00	0. 16000E-01	7087
0. 47000E-03	0. 30000E-04	0. 34800E-01	0. 17000E-02	7088
0. 24000E-01	0. 30000E-02	0. 32000E+01	0. 40000E+00	T087
0. 75000E-02	0. 10000E-02	0. 97600E+00	0. 14000E+00	T010
0. 21000E-01	0. 30000E-02	0. 64000E+00	0. 13000E+00	T046
0. 91800E-04	0. 40000E-04	0. 73000E-01	0. 11000E-01	7062
0. 53700E-02	0. 26850E-03	0. 39500E+00	0. 70000E-01	7686
0. 12400E-02	0. 70000E-03	0. 14800E+00	0. 74000E-02	7813
0. 33600E-03	0. 17000E-04	0. 26600E-01	0. 13000E-03	7913
0. 93200E-03	0. 56000E-04	0. 67500E-01	0. 57000E-02	7915
0. 13700E-02	0. 70000E-03	0. 68700E-01	0. 90000E-02	7449
0. 26200E-04	0. 13100E-05	0. 49000E-02	0. 39200E-03	8002
0. 54900E-02	0. 27000E-03	0. 67000E+00	0. 13000E+00	8023
0. 17000E-02	0. 20000E-03	0. 74900E+00	0. 37450E-01	T038
0. 24000E-03	0. 40000E-04	0. 16000E+00	0. 10000E+00	T003
0. 32000E-05	0. 10000E-05	0. 38000E-03	0. 80000E-04	T007
0. 53000E-04	0. 50000E-05	0. 64500E-02	0. 44700E-03	T051
0. 54000E-05	0. 60000E-06	0. 45000E-03	0. 21000E-03	T054
0. 36400E-03	0. 18200E-04	0. 15100E-01	0. 16000E-02	7450
0. 53200E-02	0. 27000E-03	0. 18000E+00	0. 90000E-01	7452
0. 93300E-03	0. 74000E-04	0. 96000E-01	0. 30000E-01	6792
0. 51000E+00	0. 50000E-01	0. 16000E+02	0. 12000E+01	T025
0. 96000E-03	0. 15000E-03	0. 63000E-01	0. 20000E-01	T026
0. 82000E-03	0. 20000E-03	0. 25000E-01	0. 10000E-01	T022
0. 81000E-02	0. 40500E-03	0. 31000E+00	0. 62000E-01	9117
0. 60000E-09	0. 12000E-09	0. 13000E-06	0. 50000E-07	9978
0. 13500E-03	0. 70000E-04	0. 35000E-02	0. 60000E-03	9980
0. 44000E-05	0. 22000E-06	0. 59000E-03	0. 70000E-04	9981
0. 48000E-04	0. 80000E-05	0. 11200E-01	0. 16000E-02	9982
0. 54000E-05	0. 11000E-05	0. 68000E-03	0. 17000E-03	10186
0. 88400E-08	0. 17014E-08	0. 95900E-06	0. 26028E-06	10185
0. 42000E-04	0. 50000E-05	0. 55000E-02	0. 12000E-02	10188
0. 49000E-05	0. 11000E-05	0. 16000E-02	0. 40000E-03	10189
0. 14386E-08	0. 60620E-09	0. 14216E-05	0. 33185E-06	10193
0. 37608E-06	0. 45129E-07	0. 20994E-04	0. 39654E-05	10194
0. 22000E-07	0. 11000E-08	0. 76370E-05	0. 16269E-05	10195
0. 90651E-06	0. 11785E-06	0. 12951E-03	0. 23313E-04	10200
0. 10971E-05	0. 32913E-06	0. 43213E-03	0. 38891E-04	10201
0. 41363E-04	0. 20682E-05	0. 43000E-02	0. 47300E-03	10202
0. 99945E-05	0. 59967E-06	0. 75000E-03	0. 97500E-04	10203
0. 17918E-05	0. 57336E-06	0. 51966E-02	0. 25983E-03	10204
0. 38883E-04	0. 19442E-05	0. 83167E-02	0. 41584E-03	10190
0. 38485E-04	0. 34636E-05	0. 91110E-02	0. 22777E-02	10191

0. 58072E-08	0. 73524E-09	0. 10469E-05	0. 17335E-06	10259
0. 54782E-04	0. 32869E-05	0. 78766E-03	0. 18116E-03	10261
0. 17261E-08	0. 57806E-09	0. 39904E-06	0. 10770E-06	10262
0. 36372E-06	0. 90931E-07	0. 65435E-04	0. 15704E-04	10264
0. 14220E-06	0. 32706E-07	0. 33588E-04	0. 10077E-04	10265
0. 44691E-09	0. 18770E-09	0. 24190E-06	0. 16933E-07	10266
0. 12327E-08	0. 17258E-09	0. 22671E-06	0. 20404E-07	10267
0. 17746E-08	0. 15971E-09	0. 69505E-07	0. 11816E-07	10268
0. 65632E-05	0. 85322E-06	0. 69936E-03	0. 48955E-04	10269
0. 61900E-05	0. 49500E-06	0. 41300E-02	0. 20700E-03	10270
0. 32683E-05	0. 29414E-06	0. 59200E-03	0. 53280E-04	10271
0. 73237E-05	0. 14647E-05	0. 79828E-02	0. 25545E-02	10318
0. 10370E-04	0. 62219E-06	0. 15104E-02	0. 22656E-03	10319
0. 61312E-05	0. 36787E-06	0. 10407E-02	0. 10407E-03	10320
0. 29888E-07	0. 94311E-08	0. 82560E-05	0. 27641E-05	10345
0. 14669E-05	0. 24937E-06	0. 16000E-03	0. 48000E-04	10347
0. 70200E-04	0. 25974E-04	0. 30800E-01	0. 70840E-02	10348
0. 49092E-09	0. 15218E-09	0. 14250E-04	0. 24873E-05	10382
0. 22647E-03	0. 58881E-04	0. 18387E-01	0. 45967E-02	10384
0. 19517E-03	0. 97585E-05	0. 23987E-01	0. 11994E-02	10385
0. 33691E-05	0. 40430E-06	0. 69259E-03	0. 11774E-03	10386
0. 74382E-05	0. 16364E-05	0. 15504E-02	0. 54264E-03	10442
0. 79000E-05	0. 86900E-06	0. 11900E-02	0. 20230E-03	10407
0. 15097E-05	0. 24155E-06	0. 90187E-03	0. 17136E-03	10408
0. 56423E-05	0. 62066E-06	0. 57866E-02	0. 11573E-02	10409
0. 11413E-08	0. 12501E-09	0. 31744E-06	0. 60068E-07	10412
0. 14993E-05	0. 32984E-06	0. 43171E-03	0. 17268E-03	10414
0. 14718E-05	0. 38266E-06	0. 59609E-03	0. 12518E-03	10415
0. 23352E-04	0. 21017E-05	0. 38484E-02	0. 73119E-03	10416
0. 17532E-05	0. 31557E-06	0. 69522E-03	0. 12514E-03	10417
0. 18934E-05	0. 34082E-06	0. 17742E-03	0. 44354E-04	10418
0. 10333E-05	0. 29966E-06	0. 21680E-03	0. 78047E-04	10419
0. 23376E-09	0. 70131E-10	0. 79109E-07	0. 30512E-07	10422
0. 25967E-05	0. 64918E-06	0. 37115E-03	0. 14475E-03	10424
0. 60632E-05	0. 48506E-06	0. 27405E-03	0. 17539E-03	10425
0. 22747E-05	0. 36394E-06	0. 74356E-03	0. 17846E-03	10426
0. 12577E-05	0. 17608E-06	0. 92901E-04	0. 45521E-04	10427
0. 46007E-06	0. 13802E-06	0. 14276E-03	0. 59960E-04	10428
0. 38721E-09	0. 61353E-10	0. 14999E-06	0. 41786E-07	10429
0. 16637E-05	0. 43257E-06	0. 35970E-03	0. 13669E-03	10433
0. 72231E-06	0. 18058E-06	0. 43200E-03	0. 11232E-03	10434
0. 84432E-07	0. 13509E-07	0. 53614E-05	0. 24663E-05	10477
0. 73966E-03	0. 36983E-04	0. 79804E-01	0. 55863E-02	10478
0. 44333E-04	0. 22167E-05	0. 41194E-02	0. 37074E-03	10479
0. 63444E-06	0. 26012E-06	0. 15885E-03	0. 30182E-04	10494
0. 27672E-05	0. 27672E-06	0. 29728E-03	0. 44592E-04	10495
0. 23492E-04	0. 11746E-05	0. 21764E-02	0. 23940E-03	10496
0. 62438E-04	0. 43706E-05	0. 42640E-02	0. 46904E-03	10497
0. 56352E-04	0. 28176E-05	0. 42067E-02	0. 37860E-03	10498
0. 33613E-04	0. 23529E-05	0. 37951E-02	0. 68312E-03	10499
0. 48394E-06	0. 31940E-06	0. 62176E-03	0. 17409E-03	10500
0. 15057E-07	0. 64624E-08	0. 36132E-05	0. 13479E-05	10482
0. 82260E-06	0. 24678E-06	0. 19357E-03	0. 46457E-04	10484
0. 11617E-05	0. 17425E-06	0. 63959E-04	0. 17269E-04	10485
0. 96498E-07	0. 40529E-07	0. 35908E-05	0. 23699E-05	10486
0. 40783E-06	0. 21615E-06	0. 66862E-03	0. 26076E-03	10487
0. 69560E-05	0. 15999E-05	0. 57023E-03	0. 13115E-03	10488
0. 11790E-05	0. 38906E-06	0. 18110E-03	0. 45276E-04	10507
0. 15702E-04	0. 29834E-05	0. 30125E-02	0. 57238E-03	10508
0. 17522E-04	0. 17522E-05	0. 28133E-02	0. 14066E-03	10509
0. 25029E-04	0. 65076E-05	0. 60044E-02	0. 15011E-02	10510
0. 11804E-05	0. 35413E-06	0. 14341E-03	0. 38721E-04	10511
0. 34871E-04	0. 20923E-05	0. 79617E-02	0. 87579E-03	10536



0. 18316E-03	0. 91582E-05	0. 21023E-01	0. 14716E-02	10537
0. 19479E-05	0. 11688E-06	0. 29151E-03	0. 17490E-04	10538
0. 50747E-04	0. 50747E-05	0. 40807E-02	0. 81613E-03	10539
0. 11577E-08	0. 10419E-09	0. 18676E-06	0. 35485E-07	10579
0. 40627E-03	0. 20314E-04	0. 46300E-01	0. 23150E-02	10582
0. 64574E-06	0. 36807E-06	0. 31719E-03	0. 98329E-04	10449
0. 35357E-05	0. 10607E-05	0. 51740E-03	0. 18626E-03	10450
0. 20903E-05	0. 35336E-06	0. 29448E-03	0. 73619E-04	10451
0. 74923E-05	0. 11238E-05	0. 47431E-03	0. 13755E-03	10452
0. 14625E-04	0. 74590E-05	0. 71100E-02	0. 37683E-02	10453
0. 13737E-04	0. 20605E-05	0. 21972E-02	0. 28564E-03	10454
0. 35273E-09	0. 10935E-09	0. 19109E-06	0. 61149E-07	10455
0. 23815E-08	0. 33341E-09	0. 36120E-06	0. 83076E-07	10490
0. 33140E-05	0. 46397E-06	0. 36911E-03	0. 55367E-04	10492
0. 40930E-03	0. 20465E-04	0. 43718E-01	0. 21859E-02	10493
0. 36959E-05	0. 88701E-06	0. 38993E-03	0. 77987E-04	10540
0. 21146E-05	0. 33833E-06	0. 24439E-03	0. 10264E-03	10541
0. 20865E-09	0. 91805E-10	0. 94347E-07	0. 28303E-07	10543
0. 21546E-07	0. 88337E-08	0. 43332E-05	0. 29166E-05	10544
0. 75313E-10	0. 21088E-10	0. 94483E-07	0. 35903E-07	10545
0. 69141E-06	0. 25582E-06	0. 55098E-03	0. 16530E-03	10547
0. 61884E-05	0. 99014E-06	0. 15817E-02	0. 28471E-03	10548
0. 35916E-05	0. 46691E-06	0. 47279E-03	0. 80374E-04	10549
0. 51858E-05	0. 18669E-05	0. 57180E-03	0. 16582E-03	10550
0. 11868E-05	0. 39164E-06	0. 11896E-03	0. 45205E-04	10601
0. 27888E-05	0. 64143E-06	0. 87000E-03	0. 26100E-03	10602
0. 81629E-07	0. 10572E-07	0. 16274E-04	0. 31886E-05	10706
0. 13909E-04	0. 18082E-05	0. 51710E-02	0. 36197E-03	10709
0. 10389E-05	0. 32205E-06	0. 57316E-03	0. 12610E-03	10710
0. 11088E-05	0. 38808E-06	0. 74491E-03	0. 31286E-03	10711
0. 53492E-05	0. 96285E-06	0. 21733E-02	0. 56505E-03	10712
0. 10975E-05	0. 32924E-06	0. 51749E-03	0. 21735E-03	10713
0. 14737E-05	0. 38316E-06	0. 44733E-03	0. 14314E-03	10714
0. 15093E-04	0. 12075E-05	0. 17122E-02	0. 13698E-03	10715
0. 39945E-04	0. 13182E-04	0. 14200E-01	0. 58220E-02	10717
0. 31205E-04	0. 49928E-05	0. 77098E-02	0. 23900E-02	10696
0. 37252E-04	0. 18626E-05	0. 44805E-02	0. 22402E-03	10697
0. 28887E-02	0. 14444E-03	0. 51674E+00	0. 25837E-01	10698
0. 52318E-04	0. 62782E-05	0. 91091E-02	0. 18218E-02	10699
0. 28321E-04	0. 36817E-05	0. 37147E-02	0. 89152E-03	10813
0. 34931E-04	0. 34931E-05	0. 43254E-02	0. 82183E-03	10814
0. 23953E-04	0. 64673E-05	0. 88466E-02	0. 35386E-02	10876
0. 12021E-06	0. 30052E-07	0. 25617E-03	0. 46110E-04	10878



## CORRELATION RESULTS

Nuclides Tested for Correlation are 239-PU and 244-CM

Test made on 22-OCT-84

Sorting Criteria are :

BWR

Number of entries in the fit is 277

Zero Offset Value, B0, is  $-5.35446E-11$

Correlation Ratio, B1, is  $7.51454E-01$

Standard Deviation in B0 is  $2.59585E-10$

Standard Deviation in B1 is  $6.49292E-02$

F-TEST Value is 259.470

Confidence Level for this Correlation is: 99. %

## BWR

0. 12000E-06	0. 20000E-07	0. 37000E-07	0. 50000E-08	T050
0. 49000E-08	0. 30000E-09	0. 88000E-08	0. 10000E-08	7048
0. 22000E-07	0. 20000E-08	0. 81000E-08	0. 90000E-09	T094
0. 23000E-07	0. 70000E-08	0. 20000E-07	0. 40000E-08	T002
0. 50000E-08	0. 60000E-09	0. 14000E-07	0. 30000E-08	4727
0. 97000E-07	0. 10000E-07	0. 73000E-07	0. 11000E-07	T031
0. 26000E-07	0. 30000E-08	0. 23000E-06	0. 20000E-07	6826
0. 47000E-08	0. 40000E-09	0. 31000E-08	0. 50000E-09	6806
0. 21000E-08	0. 50000E-09	0. 55000E-08	0. 20000E-08	7052
0. 78000E-08	0. 10000E-08	0. 51000E-08	0. 60000E-09	T085
0. 75000E-07	0. 90000E-08	0. 90000E-07	0. 30000E-07	6366
0. 49000E-08	0. 15000E-08	0. 40000E-10	0. 20000E-10	T016
0. 50000E-06	0. 70000E-07	0. 87000E-07	0. 10000E-07	T036
0. 44000E-07	0. 60000E-08	0. 12000E-07	0. 30000E-08	T037
0. 46000E-09	0. 70000E-10	0. 19000E-09	0. 20000E-10	T090
0. 70000E-09	0. 20000E-09	0. 28000E-09	0. 10000E-09	6814
0. 16000E-08	0. 10000E-09	0. 29000E-10	0. 40000E-11	7132
0. 52000E-10	0. 10000E-10	0. 11000E-08	0. 30000E-09	6976
0. 38000E-08	0. 30000E-09	0. 61000E-09	0. 60000E-10	7392
0. 19000E-09	0. 10000E-09	0. 16000E-09	0. 70000E-10	6975
0. 24000E-08	0. 60000E-09	0. 28000E-08	0. 60000E-09	T028
0. 13300E-06	0. 11000E-07	0. 55000E-07	0. 55000E-08	T017
0. 46500E-07	0. 59000E-08	0. 28100E-06	0. 98000E-07	7442
0. 39100E-08	0. 26000E-09	0. 58000E-08	0. 46000E-09	7656
0. 34800E-08	0. 17400E-09	0. 54800E-08	0. 27400E-09	7570
0. 43000E-08	0. 21500E-09	0. 25100E-08	0. 13000E-09	7889
0. 14700E-08	0. 15000E-09	0. 20100E-08	0. 10050E-09	7890
0. 29600E-08	0. 19000E-09	0. 24300E-08	0. 17000E-09	7891
0. 26000E-07	0. 40000E-08	0. 66000E-07	0. 80000E-08	T064
0. 32000E-08	0. 30000E-09	0. 37000E-08	0. 40000E-09	7169
0. 25000E-01	0. 30000E-02	0. 47000E-02	0. 50000E-03	T065
0. 38000E-02	0. 60000E-03	0. 20000E-02	0. 30000E-03	T086
0. 37000E-02	0. 50000E-03	0. 23000E-02	0. 50000E-03	T048
0. 10000E-02	0. 20000E-03	0. 13000E-02	0. 30000E-03	T066
0. 18000E-04	0. 40000E-05	0. 85000E-05	0. 50000E-06	T055
0. 15000E-04	0. 40000E-05	0. 32000E-05	0. 40000E-06	T056
0. 86000E-03	0. 80000E-04	0. 90000E-03	0. 10000E-03	6311
0. 23000E-03	0. 20000E-04	0. 55000E-03	0. 40000E-04	6789
0. 27000E-03	0. 50000E-04	0. 41000E-03	0. 80000E-04	6786
0. 11600E-03	0. 25000E-04	0. 25000E-03	0. 10000E-03	T117
0. 14000E-03	0. 10000E-04	0. 12000E-02	0. 10000E-03	7058
0. 64000E-04	0. 32000E-05	0. 15000E-03	0. 10000E-04	7063
0. 35000E-04	0. 15000E-04	0. 28000E-04	0. 60000E-05	T004
0. 13000E-04	0. 30000E-05	0. 15000E-05	0. 70000E-06	T006
0. 14000E-02	0. 20000E-03	0. 20000E-02	0. 30000E-03	T030
0. 79000E-04	0. 10000E-04	0. 19000E-03	0. 30000E-04	T069
0. 13000E-05	0. 20000E-06	0. 48000E-06	0. 40000E-07	6996
0. 22200E-05	0. 27000E-06	0. 35300E-06	0. 15000E-06	7401
0. 11000E-02	0. 10000E-03	0. 52000E-03	0. 60000E-04	6378
0. 21000E-02	0. 20000E-03	0. 19000E-02	0. 10000E-03	6813
0. 33000E-03	0. 40000E-04	0. 55000E-03	0. 70000E-04	6379
0. 94000E-03	0. 90000E-04	0. 74000E-03	0. 60000E-04	6812
0. 33000E-02	0. 20000E-03	0. 32300E-02	0. 30000E-03	7087
0. 47000E-03	0. 30000E-04	0. 73000E-03	0. 36500E-04	7088
0. 24000E-01	0. 30000E-02	0. 35000E-02	0. 60000E-03	T087
0. 75000E-02	0. 10000E-02	0. 46000E-03	0. 12000E-03	T010
0. 21000E-01	0. 30000E-02	0. 36000E-02	0. 40000E-03	T046
0. 91800E-04	0. 40000E-04	0. 18000E-03	0. 10000E-04	7062
0. 64600E-03	0. 56000E-04	0. 89900E-03	0. 45000E-04	7690
0. 53700E-02	0. 26850E-03	0. 32300E-02	0. 16150E-03	7686
0. 12400E-02	0. 70000E-03	0. 21500E-03	0. 39000E-04	7813

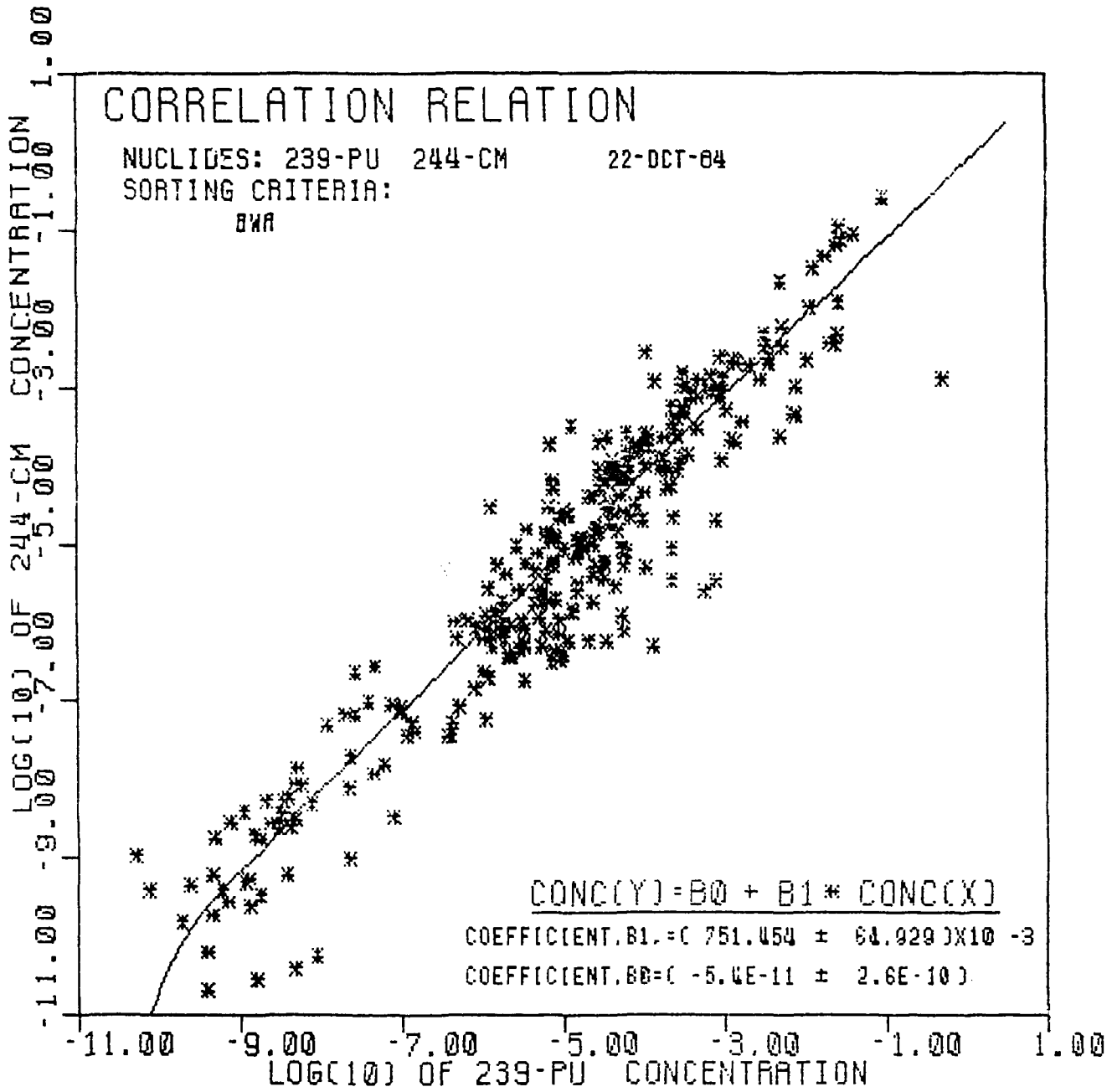
0. 33600E-03	0. 17000E-04	0. 45100E-03	0. 23000E-04	7913
0. 93200E-03	0. 56000E-04	0. 98000E-03	0. 49000E-04	7915
0. 13700E-02	0. 70000E-03	0. 21700E-02	0. 25000E-03	7449
0. 31800E-03	0. 26000E-04	0. 15600E-02	0. 20000E-03	7589
0. 26200E-04	0. 13100E-05	0. 15600E-04	0. 80000E-06	8002
0. 32200E-04	0. 30000E-05	0. 59800E-05	0. 58000E-06	7151
0. 25000E-04	0. 20000E-05	0. 53000E-05	0. 50000E-06	7150
0. 51400E-04	0. 55000E-05	0. 41600E-04	0. 77000E-05	7674
0. 54900E-02	0. 27000E-03	0. 58500E-02	0. 29000E-03	8023
0. 17000E-02	0. 20000E-03	0. 36000E-03	0. 40000E-04	T038
0. 14000E-02	0. 20000E-03	0. 20000E-03	0. 40000E-04	T009
0. 11000E-04	0. 40000E-05	0. 23000E-04	0. 50000E-05	T029
0. 24000E-03	0. 40000E-04	0. 22000E-04	0. 14000E-04	T003
0. 32000E-05	0. 10000E-05	0. 50000E-06	0. 30000E-07	T007
0. 53000E-04	0. 50000E-05	0. 88000E-05	0. 90000E-06	T051
0. 54000E-05	0. 60000E-06	0. 50000E-06	0. 30000E-06	T054
0. 31000E-05	0. 40000E-06	0. 11000E-05	0. 20000E-06	T052
0. 26000E-01	0. 13000E-02	0. 12000E-01	0. 10000E-02	T112
0. 36400E-03	0. 18200E-04	0. 13400E-03	0. 70000E-05	7450
0. 53200E-02	0. 27000E-03	0. 21800E-01	0. 14000E-02	7452
0. 64000E-04	0. 10000E-04	0. 26000E-03	0. 40000E-04	T070
0. 72000E-03	0. 10000E-03	0. 14000E-02	0. 20000E-03	T091
0. 10200E-03	0. 31000E-04	0. 45500E-04	0. 94000E-05	6787
0. 93300E-03	0. 74000E-04	0. 24400E-02	0. 21000E-03	6792
0. 12000E-01	0. 22000E-02	0. 10400E-01	0. 22000E-02	6790
0. 11000E-03	0. 19000E-04	0. 10200E-03	0. 11000E-04	6827
0. 59000E-04	0. 29500E-05	0. 26000E-04	0. 50000E-05	T005
0. 17600E-04	0. 27000E-05	0. 10000E-04	0. 20000E-05	7014
0. 28700E-04	0. 15000E-05	0. 93300E-04	0. 13400E-04	7448
0. 29600E-03	0. 24000E-04	0. 12600E-03	0. 29000E-04	7446
0. 58000E-04	0. 80000E-05	0. 81000E-06	0. 15000E-06	6821
0. 93000E-05	0. 20000E-05	0. 20000E-05	0. 10000E-05	6816
0. 35000E-04	0. 50000E-05	0. 57000E-06	0. 15000E-06	6818
0. 64000E-05	0. 10000E-05	0. 36000E-05	0. 20000E-05	6819
0. 51000E+00	0. 50000E-01	0. 13000E-02	0. 40000E-03	T025
0. 50000E-02	0. 10000E-02	0. 23000E-03	0. 60000E-04	T023
0. 12000E-04	0. 30000E-05	0. 57000E-06	0. 10000E-06	6815
0. 11000E-03	0. 10000E-04	0. 50000E-05	0. 25000E-05	6820
0. 15000E-05	0. 10000E-05	0. 56000E-05	0. 28000E-05	6825
0. 10000E-03	0. 30000E-04	0. 20000E-04	0. 10000E-04	6822
0. 31000E-03	0. 30000E-04	0. 10200E-02	0. 80000E-04	T168
0. 71000E-05	0. 35000E-05	0. 19000E-03	0. 70000E-04	7003
0. 70000E-04	0. 10000E-04	0. 22000E-04	0. 50000E-05	T012
0. 96000E-03	0. 15000E-03	0. 12000E-03	0. 20000E-04	T026
0. 82000E-03	0. 20000E-03	0. 20000E-04	0. 10000E-04	T022
0. 81400E-04	0. 65000E-05	0. 31000E-04	0. 15500E-05	7809
0. 28000E-04	0. 32000E-05	0. 14200E-04	0. 11000E-05	7810
0. 67300E-05	0. 78000E-06	0. 28800E-04	0. 20000E-05	T500
0. 79700E-03	0. 22300E-03	0. 35100E-05	0. 84000E-06	T700
0. 76000E-05	0. 55000E-06	0. 12900E-04	0. 23000E-05	K001
0. 23000E-03	0. 70000E-04	0. 35000E-05	0. 80000E-06	T700M
0. 45000E-05	0. 80000E-06	0. 48000E-05	0. 60000E-06	8329
0. 89000E-05	0. 50000E-06	0. 71000E-06	0. 50000E-07	9852
0. 99000E-05	0. 49500E-06	0. 88000E-05	0. 60000E-06	9853
0. 27000E-01	0. 13500E-02	0. 11200E+00	0. 56000E-02	9684
0. 48000E-03	0. 24000E-04	0. 29000E-03	0. 14500E-04	9685
0. 29000E-01	0. 14500E-02	0. 77000E-01	0. 38500E-02	9686
0. 94000E-01	0. 47000E-02	0. 25400E+00	0. 12700E-01	9687
0. 42000E-01	0. 21000E-02	0. 88000E-01	0. 44000E-02	9688
0. 25000E-01	0. 90000E-02	0. 62000E-01	0. 31000E-02	9689
0. 18000E-01	0. 10000E-02	0. 46000E-01	0. 23000E-02	9690
0. 23000E-03	0. 11500E-04	0. 87000E-05	0. 15000E-05	9365
0. 82000E-02	0. 60000E-03	0. 99000E-03	0. 50000E-04	9366

0. 27000E-03	0. 13500E-04	0. 87000E-04	0. 11000E-04	9367
0. 13400E-01	0. 70000E-03	0. 32900E-01	0. 16450E-02	9636
0. 51000E-03	0. 30000E-04	0. 12400E-02	0. 62000E-04	9637
0. 29000E-04	0. 20000E-05	0. 55000E-04	0. 30000E-05	9634
0. 35000E-03	0. 20000E-04	0. 99000E-03	0. 50000E-04	9635
0. 81000E-02	0. 40500E-03	0. 43000E-03	0. 21500E-04	9117
0. 42000E-04	0. 21000E-05	0. 88000E-04	0. 44000E-05	9118
0. 53000E-04	0. 30000E-05	0. 71000E-04	0. 40000E-05	9119
0. 15000E-04	0. 10000E-05	0. 26000E-05	0. 13000E-06	9846
0. 24000E-03	0. 12000E-04	0. 34000E-03	0. 17000E-04	9847
0. 13000E-04	0. 20000E-05	0. 32000E-03	0. 16000E-04	9799
0. 11000E-03	0. 10000E-04	0. 23000E-03	0. 20000E-04	9800
0. 32000E-04	0. 30000E-05	0. 36000E-05	0. 70000E-06	9801
0. 87000E-04	0. 50000E-05	0. 16000E-03	0. 10000E-04	9802
0. 11200E-03	0. 60000E-05	0. 28100E-02	0. 14050E-03	9803
0. 31500E-02	0. 15750E-03	0. 48000E-02	0. 24000E-03	9804
0. 45000E-04	0. 80000E-05	0. 30000E-05	0. 10000E-05	7815
0. 11900E-05	0. 19000E-06	0. 28000E-05	0. 70000E-06	7816
0. 59000E-03	0. 12000E-03	0. 26000E-05	0. 18000E-05	9331
0. 39000E-09	0. 60000E-10	0. 21000E-10	0. 90000E-11	9262
0. 93000E-05	0. 50000E-06	0. 34000E-06	0. 10000E-06	9263
0. 21100E-04	0. 10550E-05	0. 60000E-06	0. 20000E-06	9264
0. 56000E-05	0. 30000E-06	0. 23000E-05	0. 30000E-06	9856
0. 13200E-08	0. 66000E-10	0. 25000E-09	0. 30000E-10	9857
0. 59000E-04	0. 29500E-05	0. 56000E-05	0. 30000E-06	9806
0. 12500E-05	0. 14000E-06	0. 68000E-06	0. 33000E-06	9807
0. 90000E-05	0. 45000E-06	0. 11000E-05	0. 40000E-06	9808
0. 11000E-01	0. 10000E-02	0. 22000E-02	0. 11000E-03	9386
0. 60000E-09	0. 12000E-09	0. 40000E-09	0. 19000E-09	9978
0. 13500E-03	0. 70000E-04	0. 50000E-06	0. 28000E-06	9980
0. 44000E-05	0. 22000E-06	0. 17000E-05	0. 50000E-06	9981
0. 48000E-04	0. 80000E-05	0. 15000E-04	0. 40000E-05	9982
0. 20900E-04	0. 11000E-05	0. 40100E-04	0. 20050E-05	10029
0. 12000E-04	0. 90000E-06	0. 22900E-04	0. 14000E-05	10030
0. 62600E-05	0. 46000E-06	0. 13800E-04	0. 70000E-06	10031
0. 82000E-06	0. 12000E-06	0. 15000E-06	0. 60000E-07	9997
0. 72600E-05	0. 68000E-06	0. 32000E-06	0. 90000E-07	9998
0. 80500E-05	0. 60000E-06	0. 45000E-06	0. 12000E-06	9999
0. 32000E-05	0. 50000E-06	0. 18000E-06	0. 80000E-07	10000
0. 42000E-06	0. 90000E-07	0. 53000E-07	0. 28000E-07	10003
0. 12000E-07	0. 20000E-08	0. 49000E-07	0. 15000E-07	10088
0. 73200E-04	0. 36600E-05	0. 14800E-03	0. 74000E-05	9969
0. 67800E-04	0. 42000E-05	0. 99600E-04	0. 49800E-05	9970
0. 38300E-07	0. 26000E-08	0. 98800E-07	0. 51000E-08	9922
0. 17700E-04	0. 16000E-05	0. 12200E-04	0. 15000E-05	10125
0. 16800E-03	0. 84000E-05	0. 12900E-03	0. 64500E-05	10126
0. 64600E-04	0. 41000E-05	0. 68900E-04	0. 48000E-05	10127
0. 12200E-03	0. 94000E-05	0. 17600E-03	0. 14000E-04	10128
0. 24100E-04	0. 19600E-05	0. 41200E-04	0. 25500E-05	10129
0. 88900E-05	0. 84200E-06	0. 21100E-04	0. 12800E-05	10130
0. 19300E-07	0. 11000E-08	0. 68900E-07	0. 34450E-08	10131
0. 75800E-09	0. 77000E-10	0. 28700E-08	0. 23000E-09	10132
0. 18700E-03	0. 96000E-05	0. 11700E-03	0. 60000E-05	10133
0. 16600E-03	0. 83000E-05	0. 89800E-04	0. 44900E-05	10134
0. 48300E-05	0. 95000E-06	0. 76400E-05	0. 15000E-05	10135
0. 80000E-05	0. 81000E-06	0. 12300E-04	0. 14000E-05	10136
0. 26800E-03	0. 14000E-04	0. 23800E-03	0. 33000E-04	10168
0. 60900E-07	0. 16000E-07	0. 15700E-07	0. 99000E-08	10162
0. 76000E-05	0. 11000E-05	0. 56000E-05	0. 32000E-05	10165
0. 20800E-03	0. 10400E-04	0. 83000E-04	0. 21000E-04	10167
0. 88400E-08	0. 17014E-08	0. 57000E-10	0. 36000E-10	10185
0. 42000E-04	0. 50000E-05	0. 11800E-03	0. 12000E-04	10188
0. 49000E-05	0. 11000E-05	0. 26000E-05	0. 10000E-05	10189

0. 37608E-06	0. 45129E-07	0. 36044E-07	0. 15829E-07	10194
0. 22000E-07	0. 11000E-08	0. 10119E-08	0. 19227E-09	10195
0. 10971E-05	0. 32913E-06	0. 59991E-07	0. 26396E-07	10201
0. 41363E-04	0. 20682E-05	0. 24259E-04	0. 12130E-05	10202
0. 99945E-05	0. 59967E-06	0. 39388E-06	0. 10241E-06	10203
0. 17918E-05	0. 57336E-06	0. 18507E-05	0. 57371E-06	10204
0. 38883E-04	0. 19442E-05	0. 82563E-04	0. 41282E-05	10190
0. 38485E-04	0. 34636E-05	0. 18572E-04	0. 26000E-05	10191
0. 58072E-08	0. 73524E-09	0. 85450E-08	0. 45092E-08	10259
0. 54782E-04	0. 32869E-05	0. 12338E-05	0. 54289E-06	10261
0. 17261E-08	0. 57806E-09	0. 17679E-08	0. 79441E-09	10262
0. 14220E-06	0. 32706E-07	0. 41096E-07	0. 14384E-07	10265
0. 44691E-09	0. 18770E-09	0. 62283E-09	0. 68511E-10	10266
0. 12327E-08	0. 17258E-09	0. 55988E-09	0. 83983E-10	10267
0. 17746E-08	0. 15971E-09	0. 34228E-09	0. 41074E-10	10268
0. 65632E-05	0. 85322E-06	0. 18534E-05	0. 27801E-06	10269
0. 61900E-05	0. 49500E-06	0. 79000E-06	0. 15000E-06	10270
0. 32683E-05	0. 29414E-06	0. 55357E-06	0. 94108E-07	10271
0. 73237E-05	0. 14647E-05	0. 60940E-05	0. 42658E-06	10318
0. 10370E-04	0. 62219E-06	0. 26860E-04	0. 21488E-05	10319
0. 61312E-05	0. 36787E-06	0. 13150E-04	0. 65751E-06	10320
0. 14669E-05	0. 24937E-06	0. 13937E-05	0. 26481E-06	10347
0. 49092E-09	0. 15218E-09	0. 17958E-08	0. 70663E-09	10382
0. 22647E-03	0. 58881E-04	0. 56014E-04	0. 23526E-04	10384
0. 19517E-03	0. 97585E-05	0. 49512E-04	0. 24756E-05	10385
0. 33691E-05	0. 40430E-06	0. 56770E-05	0. 73801E-06	10386
0. 74382E-05	0. 16364E-05	0. 66722E-04	0. 20017E-04	10442
0. 56423E-05	0. 62066E-06	0. 20000E-05	0. 90000E-06	10409
0. 11413E-08	0. 12501E-09	0. 39993E-08	0. 75987E-09	10412
0. 14718E-05	0. 38266E-06	0. 11900E-05	0. 49980E-06	10415
0. 23352E-04	0. 21017E-05	0. 18400E-05	0. 93840E-06	10416
0. 17532E-05	0. 31557E-06	0. 91700E-06	0. 36680E-06	10417
0. 18934E-05	0. 34082E-06	0. 65000E-06	0. 35750E-06	10418
0. 10333E-05	0. 29966E-06	0. 24172E-06	0. 62848E-07	10419
0. 23376E-09	0. 70131E-10	0. 45442E-09	0. 94657E-10	10422
0. 25967E-05	0. 64918E-06	0. 92927E-05	0. 41817E-05	10424
0. 12577E-05	0. 17608E-06	0. 30094E-04	0. 15047E-05	10427
0. 46007E-06	0. 13802E-06	0. 10358E-05	0. 52824E-06	10428
0. 38721E-09	0. 61353E-10	0. 64287E-10	0. 32143E-10	10429
0. 16637E-05	0. 43257E-06	0. 72587E-06	0. 29761E-06	10433
0. 73966E-03	0. 36983E-04	0. 87950E-03	0. 43975E-04	10478
0. 44333E-04	0. 22167E-05	0. 91997E-04	0. 45999E-05	10479
0. 27672E-05	0. 27672E-06	0. 26028E-05	0. 18220E-06	10495
0. 23492E-04	0. 11746E-05	0. 39783E-05	0. 27848E-06	10496
0. 62438E-04	0. 43706E-05	0. 82409E-05	0. 90650E-06	10497
0. 56352E-04	0. 28176E-05	0. 89196E-05	0. 71357E-06	10498
0. 33613E-04	0. 23529E-05	0. 57474E-05	0. 74717E-06	10499
0. 48394E-06	0. 31940E-06	0. 64505E-06	0. 35478E-06	10500
0. 82260E-06	0. 24678E-06	0. 87128E-06	0. 37465E-06	10484
0. 96498E-07	0. 40529E-07	0. 83298E-07	0. 49979E-07	10486
0. 40783E-06	0. 21615E-06	0. 37000E-07	0. 23310E-07	10487
0. 69560E-05	0. 15999E-05	0. 10756E-04	0. 24738E-05	10488
0. 11790E-05	0. 38906E-06	0. 20511E-06	0. 92298E-07	10507
0. 15702E-04	0. 29834E-05	0. 80506E-05	0. 15296E-05	10508
0. 17522E-04	0. 17522E-05	0. 89156E-05	0. 80241E-06	10509
0. 25029E-04	0. 65076E-05	0. 13581E-04	0. 43461E-05	10510
0. 11804E-05	0. 35413E-06	0. 20232E-06	0. 12139E-06	10511
0. 34871E-04	0. 20923E-05	0. 65776E-04	0. 32888E-05	10536
0. 18316E-03	0. 91582E-05	0. 22812E-03	0. 11406E-04	10537
0. 19479E-05	0. 11688E-06	0. 41685E-05	0. 20843E-06	10538
0. 50747E-04	0. 50747E-05	0. 65799E-04	0. 98698E-05	10539
0. 11577E-08	0. 10419E-09	0. 49860E-09	0. 79777E-10	10579
0. 40627E-03	0. 20314E-04	0. 72999E-03	0. 36500E-04	10582

0. 64574E-06	0. 36807E-06	0. 10871E-05	0. 47833E-06	10449
0. 35357E-05	0. 10607E-05	0. 15281E-04	0. 39729E-05	10450
0. 20903E-05	0. 35536E-06	0. 39905E-06	0. 12770E-06	10451
0. 74923E-05	0. 11238E-05	0. 50637E-04	0. 30382E-04	10452
0. 14625E-04	0. 74590E-05	0. 11352E-04	0. 74923E-05	10453
0. 13737E-04	0. 20605E-05	0. 13818E-05	0. 46981E-06	10454
0. 33140E-05	0. 46397E-06	0. 83357E-06	0. 23340E-06	10492
0. 40930E-03	0. 20465E-04	0. 81992E-03	0. 40996E-04	10493
0. 21146E-05	0. 33833E-06	0. 35490E-06	0. 12067E-06	10541
0. 75313E-10	0. 21088E-10	0. 40013E-09	0. 10804E-09	10545
0. 51858E-05	0. 18669E-05	0. 11624E-05	0. 73231E-06	10550
0. 27888E-05	0. 64143E-06	0. 46607E-06	0. 24702E-06	10602
0. 81629E-07	0. 10572E-07	0. 34771E-08	0. 17778E-08	10706
0. 13909E-04	0. 18082E-05	0. 65731E-05	0. 39439E-05	10709
0. 10389E-05	0. 32205E-06	0. 61124E-06	0. 20171E-06	10710
0. 11088E-05	0. 38808E-06	0. 12359E-05	0. 40783E-06	10711
0. 53492E-05	0. 96285E-06	0. 21010E-05	0. 98747E-06	10712
0. 10975E-05	0. 32924E-06	0. 85004E-06	0. 29751E-06	10713
0. 15093E-04	0. 12075E-05	0. 11477E-04	0. 41316E-05	10715
0. 22018E-05	0. 46239E-06	0. 91280E-06	0. 31948E-06	10716
0. 31205E-04	0. 49928E-05	0. 73821E-04	0. 73821E-05	10696
0. 37252E-04	0. 18626E-05	0. 34674E-04	0. 24272E-05	10697
0. 28887E-02	0. 14444E-03	0. 12232E-02	0. 61161E-04	10698
0. 52318E-04	0. 62782E-05	0. 86527E-04	0. 86527E-05	10699
0. 28321E-04	0. 36817E-05	0. 20286E-03	0. 10143E-04	10813
0. 34931E-04	0. 34931E-05	0. 23553E-03	0. 11777E-04	10814
0. 23953E-04	0. 64673E-05	0. 99049E-05	0. 36648E-05	10876





## CORRELATION RESULTS

Nuclides Tested for Correlation are 239-PU and 241-AM

Test made on 19-OCT-84

Sorting Criteria are :

PWR

Number of entries in the fit is 474

Zero Offset Value, B0, is 9.36457E-11

Correlation Ratio, B1, is 4.77428E-01

Standard Deviation in B0 is 5.54391E-11

Standard Deviation in B1 is 2.95166E-02

F-TEST Value is 583.191

Confidence Level for this Correlation is: 99. %

PWR

0. 69000E-02	0. 34500E-03	0. 35300E-02	0. 17650E-03	9928
0. 20400E-01	0. 10200E-02	0. 83800E-02	0. 41900E-03	9929
0. 26000E-07	0. 20000E-08	0. 51000E-08	0. 40000E-09	7269
0. 40400E-09	0. 52000E-10	0. 81800E-10	0. 32000E-10	7267
0. 88000E-08	0. 60000E-09	0. 12000E-08	0. 40000E-09	6956
0. 32000E-07	0. 20000E-08	0. 36000E-08	0. 50000E-09	7268
0. 32000E-07	0. 20000E-08	0. 48000E-08	0. 20000E-08	6955
0. 15000E-07	0. 20000E-08	0. 60000E-08	0. 70000E-09	6724
0. 67000E-06	0. 60000E-07	0. 25000E-06	0. 20000E-07	6725
0. 19000E-07	0. 10000E-08	0. 49000E-08	0. 50000E-09	6728
0. 14000E-06	0. 10000E-07	0. 39000E-07	0. 40000E-08	6729
0. 27000E-08	0. 30000E-09	0. 69000E-09	0. 10000E-09	6730
0. 35000E-07	0. 30000E-08	0. 44000E-07	0. 10000E-07	7140
0. 12000E-06	0. 20000E-07	0. 28000E-07	0. 40000E-08	T089
0. 18000E-08	0. 10000E-09	0. 45000E-09	0. 22500E-10	6855
0. 16000E-06	0. 10000E-07	0. 15300E-07	0. 80000E-09	7164
0. 49000E-06	0. 24500E-07	0. 22000E-06	0. 11000E-06	7131
0. 92000E-08	0. 10000E-08	0. 75000E-09	0. 10000E-09	7130
0. 15000E-08	0. 60000E-09	0. 53000E-09	0. 12000E-09	7050
0. 61000E-07	0. 40000E-08	0. 18000E-07	0. 20000E-08	6843
0. 62000E-08	0. 31000E-09	0. 40000E-08	0. 10000E-08	7049
0. 41000E-08	0. 40000E-09	0. 48000E-09	0. 40000E-10	T098
0. 62000E-08	0. 70000E-09	0. 85000E-09	0. 90000E-10	6842
0. 56400E-07	0. 79000E-08	0. 12900E-06	0. 12000E-07	7655
0. 56200E-08	0. 40000E-09	0. 30100E-08	0. 42000E-09	7897
0. 14000E-07	0. 70000E-09	0. 91500E-08	0. 46000E-09	7924
0. 29400E-07	0. 15000E-08	0. 38600E-08	0. 19300E-09	7896
0. 20700E-07	0. 10350E-08	0. 73100E-08	0. 36550E-09	7916
0. 10900E-06	0. 90000E-08	0. 40600E-08	0. 18300E-08	7440
0. 59300E-06	0. 29650E-07	0. 28600E-07	0. 29000E-08	7567
0. 14600E-08	0. 29000E-09	0. 30300E-07	0. 36000E-08	7562
0. 88300E-07	0. 44150E-08	0. 15400E-07	0. 90000E-09	7888
0. 92200E-08	0. 46100E-09	0. 32300E-08	0. 22000E-09	7433
0. 50000E-09	0. 11000E-09	0. 71000E-09	0. 12000E-09	7654
0. 33300E-08	0. 23000E-09	0. 17900E-08	0. 21000E-09	8025
0. 95200E-08	0. 48000E-08	0. 99400E-09	0. 14100E-09	7895
0. 31800E-07	0. 16000E-08	0. 57700E-08	0. 81000E-09	7917
0. 87900E-08	0. 60000E-09	0. 12300E-07	0. 10000E-08	7385
0. 69600E-07	0. 34800E-08	0. 27000E-07	0. 30000E-08	7386
0. 63200E-08	0. 32000E-09	0. 39700E-08	0. 21000E-09	7432
0. 90400E-08	0. 45000E-09	0. 30000E-07	0. 31000E-08	7648
0. 57900E-07	0. 28950E-08	0. 68900E-08	0. 10300E-08	8026
0. 41000E+00	0. 20500E-01	0. 43000E-01	0. 21500E-02	9034
0. 60000E-06	0. 40000E-07	0. 37000E-06	0. 30000E-07	9652
0. 18000E-05	0. 40000E-06	0. 42000E-05	0. 80000E-06	T500M
0. 35000E-05	0. 11000E-05	0. 11000E-05	0. 20000E-06	8331
0. 16400E-08	0. 82000E-10	0. 66000E-09	0. 10000E-09	9760
0. 22500E-09	0. 17000E-10	0. 18000E-09	0. 50000E-10	9759
0. 33900E-09	0. 24000E-10	0. 17000E-09	0. 40000E-10	9761
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0. 26000E-08	0. 13000E-08	0. 10000E-08	0. 50000E-09	8647
0. 74000E-07	0. 37000E-07	0. 42000E-07	0. 21000E-07	8648
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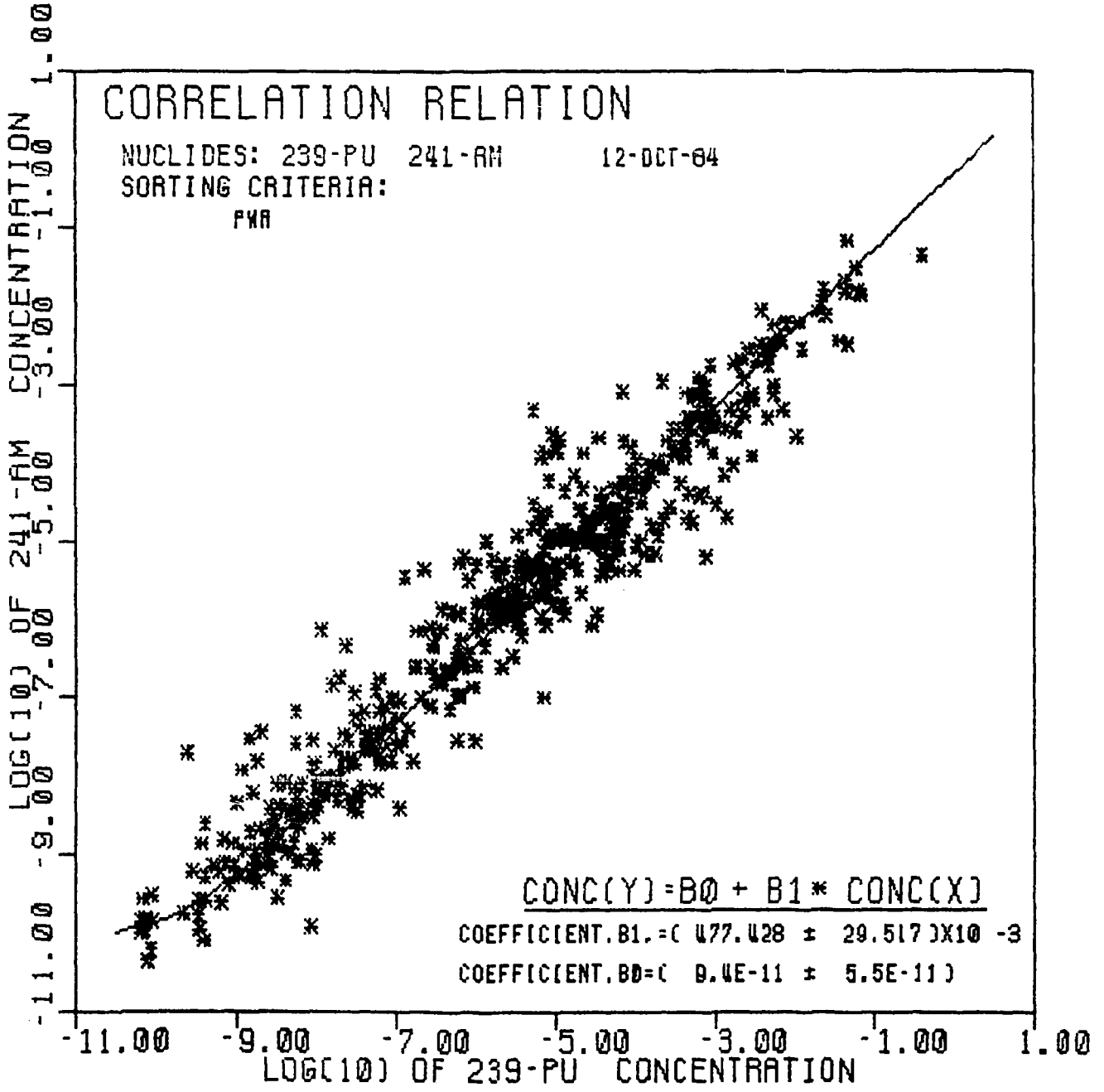
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0. 22600E-05	0. 46000E-06	0. 49300E-05	0. 76000E-06	10139
0. 10400E-03	0. 52000E-05	0. 65400E-04	0. 32700E-05	10140
0. 22422E-07	0. 11354E-08	0. 35340E-07	0. 17461E-08	10137
0. 13000E-07	0. 10000E-08	0. 57000E-08	0. 11000E-08	10149
0. 37000E-08	0. 70000E-09	0. 37000E-08	0. 11000E-08	10150
0. 57000E-08	0. 13000E-08	0. 53000E-08	0. 20000E-08	10151
0. 53000E-04	0. 50000E-05	0. 68000E-05	0. 26000E-05	10152
0. 63000E-07	0. 60000E-08	0. 14000E-07	0. 40000E-08	10153
0. 11000E-06	0. 10000E-07	0. 90000E-07	0. 46000E-07	10155
0. 10000E-04	0. 10000E-05	0. 52000E-05	0. 31000E-05	10157
0. 35300E-02	0. 17650E-03	0. 20000E-02	0. 40000E-03	10159
0. 74000E-05	0. 26000E-05	0. 14000E-03	0. 90000E-04	10161
0. 25000E-08	0. 60000E-09	0. 17000E-08	0. 70000E-09	10170
0. 70000E-10	0. 22000E-10	0. 11000E-09	0. 50000E-10	10171
0. 75000E-10	0. 23000E-10	0. 16000E-09	0. 30000E-10	10174
0. 35000E-06	0. 80000E-07	0. 17000E-06	0. 50000E-07	10175
0. 13000E-06	0. 30000E-07	0. 33400E-05	0. 20000E-06	10176
0. 12000E-04	0. 10000E-05	0. 14000E-04	0. 20000E-05	10178
0. 77008E-04	0. 46205E-05	0. 34695E-04	0. 34695E-05	10207
0. 63565E-04	0. 31783E-05	0. 13579E-04	0. 16295E-05	10208
0. 39523E-03	0. 19761E-04	0. 13909E-03	0. 69545E-05	10209
0. 85807E-07	0. 16722E-07	0. 41387E-07	0. 12053E-07	10206
0. 17599E-07	0. 65116E-08	0. 21351E-07	0. 86234E-08	10205
0. 16686E-04	0. 13349E-05	0. 52549E-05	0. 63059E-06	10213
0. 41281E-07	0. 99074E-08	0. 30626E-07	0. 67378E-08	10248
0. 48362E-04	0. 24181E-05	0. 13993E-04	0. 83959E-06	10246
0. 21039E-04	0. 33662E-05	0. 99572E-05	0. 89615E-06	10247
0. 11617E-03	0. 92939E-05	0. 10261E-04	0. 21548E-05	10231
0. 30430E-05	0. 42602E-06	0. 16000E-05	0. 28800E-06	10232
0. 45056E-03	0. 22528E-04	0. 20000E-04	0. 20000E-05	10233
0. 17160E-03	0. 85800E-05	0. 68000E-05	0. 34000E-06	10234
0. 20570E-04	0. 18513E-05	0. 22000E-05	0. 66000E-06	10235
0. 74185E-05	0. 11870E-05	0. 21000E-05	0. 86100E-06	10236
0. 11122E-01	0. 55610E-03	0. 21700E-03	0. 10850E-04	10237
0. 29856E-02	0. 14928E-03	0. 12200E-03	0. 85400E-05	10238
0. 88051E-10	0. 36101E-10	0. 63619E-10	0. 24812E-10	10222
0. 35658E-05	0. 96277E-06	0. 48208E-05	0. 77133E-06	10225
0. 29699E-06	0. 95037E-07	0. 45649E-06	0. 82169E-07	10273
0. 36600E-03	0. 18300E-04	0. 55100E-04	0. 38570E-05	10274
0. 24002E-07	0. 43204E-08	0. 47600E-06	0. 19992E-06	10285
0. 84859E-03	0. 42430E-04	0. 29400E-03	0. 14700E-04	10286
0. 86772E-03	0. 43386E-04	0. 54500E-03	0. 10900E-03	10287
0. 12243E-05	0. 13467E-06	0. 86400E-06	0. 14688E-06	10289
0. 25330E-09	0. 81056E-10	0. 19496E-07	0. 10333E-07	10307

0. 56464E-08	0. 79050E-09	0. 69757E-07	0. 27623E-07	10308
0. 38291E-04	0. 19146E-05	0. 10404E-04	0. 52020E-06	10311
0. 50552E-04	0. 96050E-05	0. 20407E-04	0. 10204E-05	10312
0. 29090E-05	0. 69817E-06	0. 15663E-05	0. 43857E-06	10313
0. 24345E-05	0. 60863E-06	0. 25625E-05	0. 48687E-06	10314
0. 92536E-04	0. 64775E-05	0. 16300E-03	0. 53790E-04	10293
0. 19300E-05	0. 19300E-06	0. 39300E-05	0. 20829E-05	10294
0. 17648E-04	0. 88240E-06	0. 68100E-04	0. 61290E-05	10295
0. 62949E-06	0. 11331E-06	0. 52000E-05	0. 15600E-05	10296
0. 36464E-06	0. 40110E-07	0. 74300E-06	0. 40865E-06	10297
0. 39737E-02	0. 19869E-03	0. 87800E-02	0. 43900E-03	10298
0. 74600E-05	0. 35062E-05	0. 10300E-04	0. 29870E-05	10299
0. 32800E-05	0. 18040E-05	0. 11700E-04	0. 24570E-05	10300
0. 41552E-05	0. 12466E-05	0. 36420E-05	0. 10562E-05	10390
0. 18522E-06	0. 33340E-07	0. 70579E-06	0. 23291E-06	10366
0. 14429E-07	0. 20201E-08	0. 16192E-08	0. 32383E-09	10370
0. 84642E-08	0. 21534E-08	0. 12190E-09	0. 54856E-10	10375
0. 27424E-06	0. 90501E-07	0. 77727E-07	0. 37309E-07	10377
0. 32848E-04	0. 22994E-05	0. 11500E-05	0. 34500E-06	10399
0. 37806E-04	0. 18903E-05	0. 39371E-04	0. 19686E-05	10400
0. 89300E-07	0. 28600E-07	0. 10100E-06	0. 28400E-07	10401
0. 30625E-07	0. 64313E-08	0. 11929E-06	0. 40557E-07	10402
0. 38646E-07	0. 54104E-08	0. 67463E-07	0. 34406E-07	10403
0. 19742E-07	0. 41459E-08	0. 18571E-06	0. 11700E-06	10404
0. 12896E-05	0. 34820E-06	0. 99000E-05	0. 49500E-05	10405
0. 24533E-08	0. 88320E-09	0. 14328E-08	0. 68773E-09	10460
0. 35649E-07	0. 42778E-08	0. 58516E-08	0. 16970E-08	10461
0. 14677E-08	0. 46967E-09	0. 19975E-08	0. 75904E-09	10462
0. 14989E-05	0. 89931E-07	0. 20831E-05	0. 10416E-06	10466
0. 29145E-06	0. 29145E-07	0. 49140E-06	0. 39312E-07	10467
0. 17602E-06	0. 17602E-07	0. 24166E-06	0. 21749E-07	10468
0. 35537E-08	0. 12631E-08	0. 42655E-08	0. 13876E-08	10457
0. 27176E-08	0. 65177E-09	0. 38395E-08	0. 10016E-08	10458
0. 56589E-08	0. 12919E-08	0. 26402E-07	0. 30940E-08	10459
0. 34248E-09	0. 92471E-10	0. 26070E-09	0. 96459E-10	10472
0. 69682E-09	0. 14633E-09	0. 15649E-08	0. 57903E-09	10473
0. 94726E-05	0. 10420E-05	0. 10094E-04	0. 90849E-06	10476
0. 61032E-06	0. 79341E-07	0. 10600E-06	0. 33920E-07	10284
0. 30044E-07	0. 12318E-07	0. 14192E-07	0. 49673E-08	10275
0. 45400E-07	0. 95340E-08	0. 36200E-07	0. 61540E-08	10276
0. 61502E-07	0. 11685E-07	0. 35000E-07	0. 87500E-08	10277
0. 93230E-06	0. 12120E-06	0. 14000E-06	0. 26600E-07	10278
0. 30120E-06	0. 57228E-07	0. 17400E-06	0. 29580E-07	10279
0. 56749E-06	0. 15890E-06	0. 10900E-06	0. 43600E-07	10280
0. 11797E-01	0. 58985E-03	0. 61500E-02	0. 86100E-03	10281
0. 58205E-02	0. 29103E-03	0. 95300E-03	0. 47650E-04	10282
0. 20517E-04	0. 47190E-05	0. 26000E-04	0. 65000E-05	10283
0. 13434E-03	0. 67170E-05	0. 68300E-05	0. 21856E-05	10290
0. 69211E-01	0. 34606E-02	0. 13439E-01	0. 67196E-03	10304
0. 12934E-05	0. 38801E-06	0. 46628E-06	0. 14455E-06	10305
0. 95896E-06	0. 47948E-07	0. 29178E-07	0. 14589E-08	10303
0. 29425E-05	0. 14713E-06	0. 33955E-06	0. 30559E-07	10306
0. 18264E-05	0. 32876E-06	0. 86798E-06	0. 21699E-06	10301
0. 27059E-06	0. 67648E-07	0. 79141E-06	0. 71227E-07	10302
0. 37089E-01	0. 18545E-02	0. 36381E-02	0. 18191E-03	10406
0. 30106E-03	0. 15053E-04	0. 12611E-03	0. 75668E-05	10387
0. 61265E-06	0. 30633E-07	0. 11200E-06	0. 47040E-07	10329
0. 15818E-03	0. 11073E-04	0. 58195E-04	0. 34917E-05	10330
0. 27524E-04	0. 16515E-05	0. 18900E-04	0. 22680E-05	10335
0. 30726E-03	0. 24581E-04	0. 15545E-03	0. 12436E-04	10336
0. 37828E-06	0. 87004E-07	0. 13723E-05	0. 64497E-06	10349
0. 37529E-06	0. 13135E-06	0. 15232E-06	0. 62453E-07	10350
0. 41481E-06	0. 17007E-06	0. 24274E-06	0. 97097E-07	10351



0. 59158E-04	0. 29579E-05	0. 10044E-04	0. 70311E-06	10353
0. 11260E-04	0. 19141E-05	0. 38668E-05	0. 15467E-05	10355
0. 66161E-05	0. 11247E-05	0. 10620E-05	0. 35046E-06	10356
0. 12725E-04	0. 41992E-05	0. 10764E-04	0. 37674E-05	10357
0. 26700E-05	0. 74760E-06	0. 12254E-05	0. 41663E-06	10358
0. 30833E-04	0. 40083E-05	0. 82559E-05	0. 28070E-05	10359
0. 69413E-05	0. 41648E-05	0. 72540E-05	0. 31192E-05	10360
0. 61914E-04	0. 11764E-04	0. 41898E-05	0. 20949E-05	10363
0. 45174E-03	0. 23039E-03	0. 78071E-03	0. 34351E-03	10391
0. 46852E-01	0. 23426E-02	0. 66946E-01	0. 22762E-01	10392
0. 67387E-02	0. 33694E-03	0. 39466E-02	0. 19733E-03	10393
0. 57706E-03	0. 40394E-04	0. 32815E-03	0. 65630E-04	10394
0. 69386E-03	0. 41632E-04	0. 32896E-03	0. 39476E-04	10395
0. 18767E-02	0. 93835E-04	0. 25016E-03	0. 15010E-04	10396
0. 43100E-04	0. 43100E-05	0. 41000E-05	0. 12300E-05	10397
0. 63236E-05	0. 17706E-05	0. 23312E-05	0. 88586E-06	10398
0. 34783E-05	0. 69567E-06	0. 22536E-05	0. 49579E-06	10436
0. 61936E-05	0. 12387E-05	0. 20345E-05	0. 69171E-06	10437
0. 75488E-02	0. 37744E-03	0. 46186E-03	0. 23093E-04	10438
0. 36303E-04	0. 18152E-05	0. 36800E-05	0. 73600E-06	10439
0. 50773E-05	0. 81236E-06	0. 14694E-04	0. 39673E-05	10440
0. 20999E-05	0. 44097E-06	0. 37300E-05	0. 89521E-06	10441
0. 20225E-05	0. 24270E-06	0. 13468E-05	0. 55217E-06	10443
0. 68388E-05	0. 41033E-06	0. 44311E-05	0. 13736E-05	10444
0. 90991E-04	0. 63694E-05	0. 84174E-04	0. 10101E-04	10445
0. 23334E-02	0. 11667E-03	0. 39884E-03	0. 19942E-04	10446
0. 94083E-03	0. 47041E-04	0. 13330E-03	0. 10664E-04	10447
0. 20532E-05	0. 45171E-06	0. 24972E-06	0. 11237E-06	10448
0. 30998E-04	0. 15499E-05	0. 97113E-05	0. 48557E-06	10556
0. 10392E-07	0. 11152E-08	0. 41244E-08	0. 77187E-09	10501
0. 52584E-08	0. 92706E-09	0. 14883E-08	0. 32458E-09	10503
0. 20035E-08	0. 24042E-09	0. 21158E-08	0. 23273E-09	10520
0. 56482E-08	0. 62130E-09	0. 84275E-09	0. 15170E-09	10521
0. 12380E-07	0. 61902E-09	0. 83310E-08	0. 41655E-09	10522
0. 41818E-08	0. 33454E-09	0. 83595E-08	0. 41798E-09	10523
0. 53302E-08	0. 42642E-09	0. 28521E-08	0. 25669E-09	10524
0. 46385E-06	0. 23193E-07	0. 74824E-07	0. 37412E-08	10525
0. 26100E-04	0. 13050E-05	0. 10238E-04	0. 51190E-06	10526
0. 33240E-08	0. 19944E-09	0. 81147E-08	0. 40574E-09	10527
0. 44452E-05	0. 57788E-06	0. 50018E-05	0. 55020E-06	10528
0. 62649E-03	0. 31325E-04	0. 46608E-03	0. 23304E-04	10529
0. 70030E-04	0. 42018E-05	0. 54121E-04	0. 27061E-05	10530
0. 22206E-04	0. 17765E-05	0. 13164E-03	0. 65820E-05	10531
0. 47441E-02	0. 23721E-03	0. 23509E-02	0. 35264E-03	10532
0. 49366E-02	0. 24683E-03	0. 17911E-02	0. 89555E-04	10533
0. 64114E-05	0. 12823E-05	0. 53471E-05	0. 74859E-06	10534
0. 37684E-05	0. 22610E-06	0. 16877E-05	0. 11814E-06	10551
0. 18672E-07	0. 93362E-09	0. 99931E-08	0. 49966E-09	10557
0. 81600E-10	0. 19600E-10	0. 46000E-10	0. 12000E-10	10559
0. 34533E-09	0. 75973E-10	0. 11153E-09	0. 35691E-10	10561
0. 16889E-08	0. 20267E-09	0. 76993E-09	0. 92392E-10	10564
0. 90900E-10	0. 29100E-10	0. 14300E-09	0. 30000E-10	10565
0. 61100E-09	0. 12200E-09	0. 62800E-09	0. 69100E-10	10567
0. 35200E-04	0. 28200E-05	0. 20000E-04	0. 84000E-05	10569
0. 88300E-03	0. 44200E-04	0. 29500E-03	0. 14800E-04	10570
0. 30500E-03	0. 15250E-04	0. 27400E-03	0. 13700E-04	10571
0. 94700E-04	0. 85200E-05	0. 54000E-04	0. 59400E-05	10572
0. 79000E-06	0. 18200E-06	0. 37000E-06	0. 14400E-06	10573
0. 20475E-05	0. 38902E-06	0. 96372E-06	0. 23129E-06	10574
0. 53000E-05	0. 53000E-06	0. 49900E-05	0. 34900E-06	10575
0. 64100E-04	0. 32100E-05	0. 26200E-04	0. 13100E-05	10576
0. 34000E-05	0. 40800E-06	0. 20000E-05	0. 52000E-06	10577
0. 19626E-04	0. 35326E-05	0. 25487E-04	0. 35682E-05	10578

0. 31393E-02	0. 15697E-03	0. 64561E-03	0. 32280E-04	10604
0. 82576E-04	0. 41288E-05	0. 36937E-04	0. 62793E-05	10605
0. 38764E-07	0. 46516E-08	0. 73839E-08	0. 28797E-08	10596
0. 40651E-04	0. 48781E-05	0. 29277E-04	0. 38060E-05	10681
0. 10238E-03	0. 51188E-05	0. 11128E-03	0. 55642E-05	10682
0. 15915E-05	0. 35013E-06	0. 12349E-05	0. 40752E-06	10683
0. 41480E-04	0. 20740E-05	0. 25977E-04	0. 12989E-05	10684
0. 92298E-05	0. 11599E-05	0. 15927E-05	0. 74855E-06	10331
0. 18000E-08	0. 25200E-09	0. 16000E-07	0. 16000E-08	10332
0. 28200E-09	0. 84800E-10	0. 61500E-09	0. 11700E-09	10333
0. 32200E-08	0. 42000E-09	0. 28500E-09	0. 18800E-09	10334
0. 19056E-04	0. 17151E-05	0. 42300E-05	0. 15228E-05	10338
0. 40800E-09	0. 73200E-10	0. 52000E-09	0. 20800E-09	10339
0. 26059E-05	0. 41694E-06	0. 11569E-05	0. 17353E-06	10553
0. 18716E-05	0. 24330E-06	0. 22579E-05	0. 18063E-06	10554
0. 14967E-07	0. 40412E-08	0. 10070E-07	0. 27190E-08	10555
0. 61138E-08	0. 48911E-09	0. 23030E-08	0. 80604E-09	10645
0. 41363E-09	0. 86863E-10	0. 26073E-09	0. 99077E-10	10646
0. 44440E-04	0. 22220E-05	0. 23972E-04	0. 11986E-05	10647
0. 66258E-01	0. 33129E-02	0. 15085E-01	0. 90512E-03	10672
0. 25471E-03	0. 12735E-04	0. 19356E-03	0. 96778E-05	10758
0. 10222E-06	0. 91995E-08	0. 25029E-07	0. 37543E-08	10759
0. 30078E-07	0. 51133E-08	0. 58545E-07	0. 52691E-08	10760
0. 24373E-01	0. 12186E-02	0. 15941E-01	0. 79706E-03	10761
0. 22508E-02	0. 11254E-03	0. 21268E-02	0. 10634E-03	10762
0. 10093E-08	0. 34637E-09	0. 46823E-08	0. 79599E-09	10727
0. 61797E-04	0. 37078E-05	0. 26165E-04	0. 13083E-05	10729
0. 62420E-06	0. 31210E-07	0. 29834E-06	0. 17900E-07	10730
0. 24265E-05	0. 12132E-06	0. 13539E-05	0. 67693E-07	10731
0. 21769E-04	0. 13061E-05	0. 13219E-04	0. 92534E-06	10732
0. 69675E-07	0. 97545E-08	0. 77515E-07	0. 14728E-07	10808
0. 67313E-05	0. 17501E-05	0. 37200E-05	0. 85560E-06	10809
0. 41224E-05	0. 53591E-06	0. 33867E-05	0. 40641E-06	10810
0. 10515E-05	0. 29441E-06	0. 16516E-05	0. 34683E-06	10811
0. 18819E-05	0. 58340E-06	0. 16002E-05	0. 36804E-06	10812



## CORRELATION RESULTS

Nuclides Tested for Correlation are 239-PU and 242-CM

Test made on 15-OCT-84

Sorting Criteria are :

PWR

Number of entries in the fit is 434

Zero Offset Value, B0, is 2.98954E-10

Correlation Ratio, B1, is 8.30911E-01

Standard Deviation in B0 is 1.80963E-10

Standard Deviation in B1 is 7.52209E-02

F-TEST Value is 169.426

Confidence Level for this Correlation is: 99. %

## PWR

0. 69000E-02	0. 34500E-03	0. 29100E-01	0. 14550E-02	9928
0. 20400E-01	0. 10200E-02	0. 30200E-01	0. 15100E-02	9929
0. 26000E-07	0. 20000E-08	0. 42000E-06	0. 30000E-07	7269
0. 40400E-09	0. 52000E-10	0. 15000E-08	0. 20000E-09	7267
0. 88000E-08	0. 60000E-09	0. 37000E-07	0. 20000E-08	6956
0. 32000E-07	0. 20000E-08	0. 15000E-06	0. 20000E-07	7268
0. 32000E-07	0. 20000E-08	0. 72000E-06	0. 10000E-06	6955
0. 15000E-07	0. 20000E-08	0. 91000E-07	0. 10000E-07	6724
0. 67000E-06	0. 60000E-07	0. 68000E-05	0. 15000E-05	6725
0. 19000E-07	0. 10000E-08	0. 42000E-06	0. 40000E-07	6728
0. 14000E-06	0. 10000E-07	0. 40000E-05	0. 40000E-06	6729
0. 27000E-08	0. 30000E-09	0. 69000E-07	0. 60000E-08	6730
0. 35000E-07	0. 30000E-08	0. 71000E-07	0. 30000E-07	7140
0. 12000E-06	0. 20000E-07	0. 17000E-05	0. 30000E-06	T089
0. 18000E-08	0. 10000E-09	0. 32000E-08	0. 40000E-09	6855
0. 16000E-06	0. 10000E-07	0. 16400E-07	0. 15000E-08	7164
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0. 14600E-08	0. 29000E-09	0. 57700E-07	0. 28850E-08	7562
0. 88300E-07	0. 44150E-08	0. 60100E-06	0. 30050E-07	7888
0. 92200E-08	0. 46100E-09	0. 12900E-07	0. 10000E-08	7433
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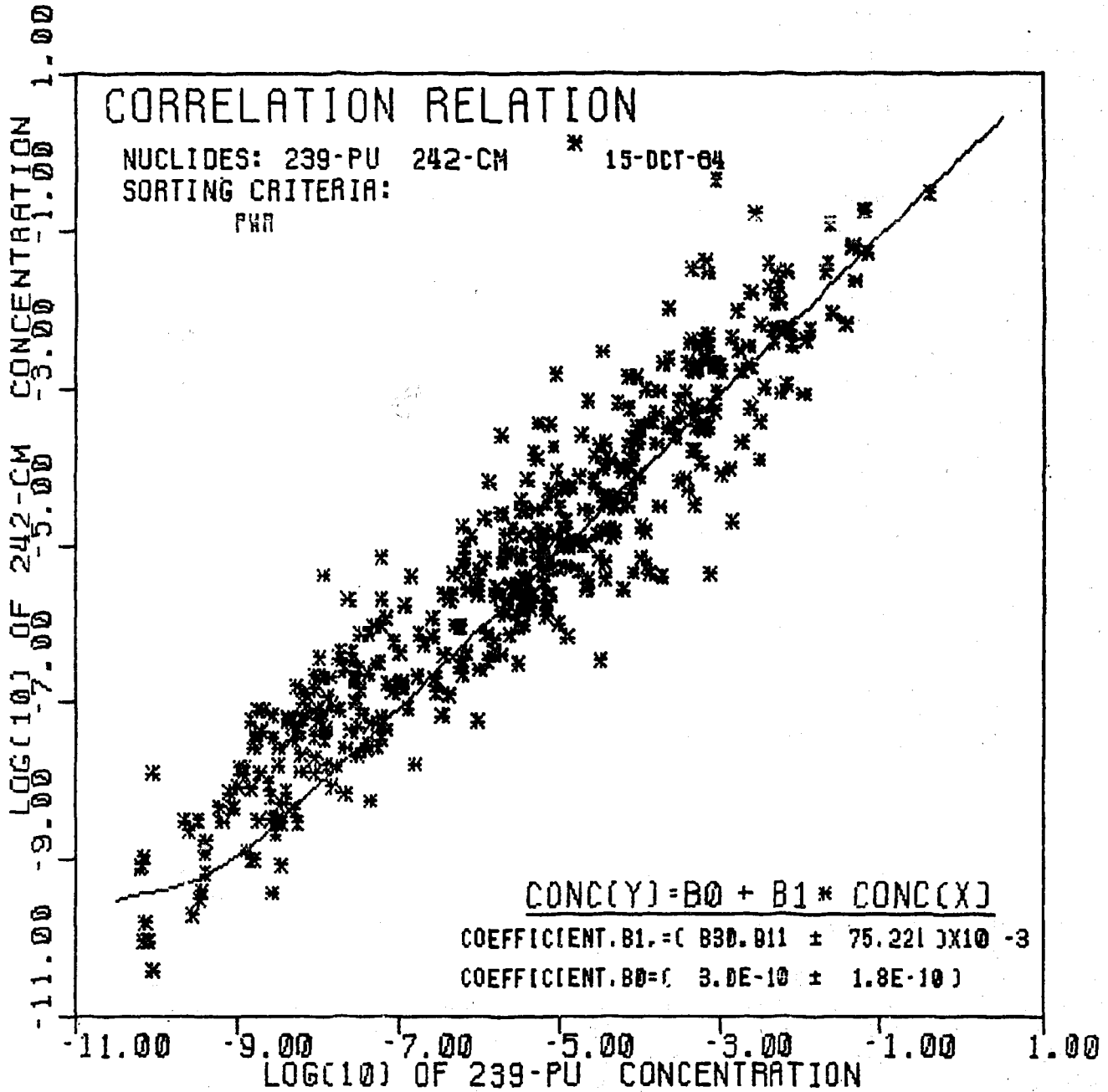
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0. 28100E-04	0. 14050E-05	0. 13600E-04	0. 68000E-06	10144
0. 99300E-04	0. 49650E-05	0. 74000E-04	0. 37000E-05	10145
0. 33600E-05	0. 66000E-06	0. 70700E-05	0. 12000E-05	10146
0. 43100E-08	0. 26000E-09	0. 62700E-07	0. 31350E-08	10121
0. 65300E-06	0. 32650E-07	0. 94000E-05	0. 47000E-06	10072
0. 12000E-07	0. 10000E-08	0. 41300E-05	0. 37000E-06	10079
0. 45500E-03	0. 22750E-04	0. 33000E-01	0. 16500E-02	10074
0. 27600E-02	0. 13800E-03	0. 16300E+00	0. 81500E-02	10075
0. 65800E-03	0. 32900E-04	0. 41200E-01	0. 20600E-02	10077
0. 63500E-07	0. 31750E-08	0. 70500E-05	0. 35250E-06	10078
0. 58800E-03	0. 29400E-04	0. 10800E-03	0. 56000E-05	10108
0. 31500E-05	0. 17000E-06	0. 95600E-06	0. 10000E-06	10109
0. 60200E-05	0. 30100E-06	0. 90900E-05	0. 45450E-06	10110
0. 52100E-05	0. 37000E-06	0. 83500E-05	0. 59000E-06	10111



0. 27300E-06	0. 42000E-07	0. 67800E-06	0. 11000E-06	10112
0. 37000E-05	0. 81000E-06	0. 36300E-05	0. 94000E-06	10113
0. 71300E-03	0. 35650E-04	0. 31800E-03	0. 15900E-04	10114
0. 52100E-02	0. 26050E-03	0. 28100E-01	0. 14050E-02	10115
0. 13600E-04	0. 13000E-05	0. 52900E-04	0. 27000E-05	10116
0. 36600E-05	0. 51000E-06	0. 21800E-05	0. 72000E-06	10117
0. 73100E-05	0. 11000E-05	0. 65400E-05	0. 12000E-05	10118
0. 56200E-06	0. 28100E-07	0. 92200E-06	0. 46100E-07	10138
0. 22600E-05	0. 46000E-06	0. 20800E-05	0. 53000E-06	10139
0. 10400E-03	0. 52000E-05	0. 69300E-05	0. 10000E-05	10140
0. 22422E-07	0. 11354E-08	0. 68840E-08	0. 55866E-09	10137
0. 13000E-07	0. 10000E-08	0. 16000E-07	0. 20000E-08	10149
0. 37000E-08	0. 70000E-09	0. 52000E-08	0. 13000E-08	10150
0. 63000E-07	0. 60000E-08	0. 64000E-07	0. 90000E-08	10153
0. 11000E-06	0. 10000E-07	0. 16000E-06	0. 80000E-07	10155
0. 47000E-07	0. 13000E-07	0. 91000E-06	0. 50000E-06	10156
0. 35300E-02	0. 17650E-03	0. 10000E-02	0. 30000E-03	10159
0. 74000E-05	0. 26000E-05	0. 34000E-03	0. 16000E-03	10161
0. 13000E-08	0. 30000E-09	0. 13000E-08	0. 60000E-09	10169
0. 70000E-10	0. 22000E-10	0. 11000E-08	0. 20000E-09	10171
0. 75000E-10	0. 23000E-10	0. 16000E-09	0. 40000E-10	10174
0. 35000E-06	0. 80000E-07	0. 67000E-07	0. 38000E-07	10175
0. 13000E-06	0. 30000E-07	0. 85000E-07	0. 40000E-07	10176
0. 12000E-04	0. 10000E-05	0. 20000E-04	0. 20000E-05	10178
0. 47000E-07	0. 13000E-07	0. 91000E-06	0. 50000E-06	10156
0. 77008E-04	0. 46205E-05	0. 46612E-04	0. 46612E-05	10207
0. 63565E-04	0. 31783E-05	0. 86202E-04	0. 60341E-05	10208
0. 39523E-03	0. 19761E-04	0. 20643E-02	0. 10322E-03	10209
0. 85807E-07	0. 16722E-07	0. 13769E-06	0. 20899E-07	10206
0. 17599E-07	0. 65116E-08	0. 15070E-07	0. 72959E-08	10205
0. 45666E-05	0. 73066E-06	0. 22674E-05	0. 47615E-06	10212
0. 16686E-04	0. 13349E-05	0. 47189E-05	0. 70784E-06	10213
0. 41281E-07	0. 99074E-08	0. 71716E-06	0. 35858E-07	10248
0. 48362E-04	0. 24181E-05	0. 14497E-04	0. 86985E-06	10246
0. 21039E-04	0. 33662E-05	0. 27081E-05	0. 54162E-06	10247
0. 11617E-03	0. 92939E-05	0. 14982E-04	0. 26967E-05	10231
0. 30430E-05	0. 42602E-06	0. 31000E-06	0. 13640E-06	10232
0. 45056E-03	0. 22528E-04	0. 15937E-03	0. 79686E-05	10233
0. 17160E-03	0. 85800E-05	0. 30684E-04	0. 15342E-05	10234
0. 20570E-04	0. 18513E-05	0. 10985E-04	0. 15379E-05	10235
0. 11122E-01	0. 55610E-03	0. 83564E-03	0. 41782E-04	10237
0. 29856E-02	0. 14928E-03	0. 12183E-03	0. 85281E-05	10238
0. 35658E-05	0. 96277E-06	0. 17425E-05	0. 55759E-06	10225
0. 29699E-06	0. 95037E-07	0. 13941E-06	0. 50187E-07	10273
0. 36600E-03	0. 18300E-04	0. 72100E-04	0. 43260E-05	10274
0. 24002E-07	0. 43204E-08	0. 19600E-05	0. 47040E-06	10285
0. 84859E-03	0. 42430E-04	0. 52200E-03	0. 26100E-04	10286
0. 86772E-03	0. 43386E-04	0. 18200E-02	0. 36400E-03	10287
0. 12243E-05	0. 13467E-06	0. 74000E-06	0. 14800E-06	10289
0. 25330E-09	0. 81056E-10	0. 23711E-08	0. 49793E-09	10307
0. 56464E-08	0. 79050E-09	0. 64925E-07	0. 22674E-07	10308
0. 38291E-04	0. 19146E-05	0. 12516E-03	0. 62580E-05	10311
0. 50552E-04	0. 96050E-05	0. 38544E-04	0. 19272E-05	10312
0. 29090E-05	0. 69817E-06	0. 13608E-05	0. 46268E-06	10313
0. 24345E-05	0. 60863E-06	0. 32085E-05	0. 60962E-06	10314
0. 92536E-04	0. 64775E-05	0. 32300E-03	0. 83980E-04	10293
0. 17648E-04	0. 88240E-06	0. 75900E-04	0. 75900E-05	10295
0. 62949E-06	0. 11331E-06	0. 17200E-04	0. 18920E-05	10296
0. 36464E-06	0. 40110E-07	0. 23500E-05	0. 82250E-06	10297
0. 39737E-02	0. 19869E-03	0. 37600E-01	0. 18800E-02	10298
0. 74600E-05	0. 35062E-05	0. 52800E-04	0. 73920E-05	10299
0. 32800E-05	0. 18040E-05	0. 27400E-04	0. 41100E-05	10300
0. 32848E-04	0. 22994E-05	0. 34600E-06	0. 21798E-06	10399

0. 37806E-04	0. 18903E-05	0. 37196E-05	0. 26037E-06	10400
0. 24533E-08	0. 88320E-09	0. 93057E-08	0. 26056E-08	10460
0. 14677E-08	0. 46967E-09	0. 99162E-09	0. 62472E-09	10462
0. 14989E-05	0. 89931E-07	0. 45423E-06	0. 40880E-07	10466
0. 29145E-06	0. 29145E-07	0. 20111E-06	0. 30167E-07	10467
0. 17602E-06	0. 17602E-07	0. 22174E-06	0. 24391E-07	10468
0. 35537E-08	0. 12631E-08	0. 29398E-08	0. 12845E-08	10457
0. 27176E-08	0. 65177E-09	0. 37818E-09	0. 13236E-09	10458
0. 56589E-08	0. 12919E-08	0. 29812E-08	0. 11987E-08	10459
0. 94726E-05	0. 10420E-05	0. 51623E-05	0. 72272E-06	10476
0. 30044E-07	0. 12318E-07	0. 48841E-07	0. 10745E-07	10275
0. 45400E-07	0. 95340E-08	0. 54900E-07	0. 87840E-08	10276
0. 61502E-07	0. 11685E-07	0. 33000E-07	0. 95700E-08	10277
0. 93230E-06	0. 12120E-06	0. 35200E-05	0. 17600E-06	10278
0. 11797E-01	0. 58985E-03	0. 41200E-02	0. 65920E-03	10281
0. 58205E-02	0. 29103E-03	0. 83900E-03	0. 41950E-04	10282
0. 13434E-03	0. 67170E-05	0. 42500E-05	0. 19125E-05	10290
0. 69211E-01	0. 34606E-02	0. 51020E-01	0. 25510E-02	10304
0. 12934E-05	0. 38801E-06	0. 34669E-06	0. 14561E-06	10305
0. 95896E-06	0. 47948E-07	0. 57494E-07	0. 28747E-08	10303
0. 29425E-05	0. 14713E-06	0. 27151E-05	0. 13576E-06	10306
0. 18264E-05	0. 32876E-06	0. 41559E-06	0. 16623E-06	10301
0. 27059E-06	0. 67648E-07	0. 11383E-05	0. 10244E-06	10302
0. 37089E-01	0. 18545E-02	0. 64630E-02	0. 32315E-03	10406
0. 30106E-03	0. 15053E-04	0. 64857E-04	0. 45400E-05	10387
0. 61265E-06	0. 30633E-07	0. 34500E-06	0. 89700E-07	10329
0. 15818E-03	0. 11073E-04	0. 19419E-03	0. 97095E-05	10330
0. 27524E-04	0. 16515E-05	0. 13558E-03	0. 94907E-05	10335
0. 30726E-03	0. 24581E-04	0. 43515E-03	0. 30461E-04	10336
0. 37529E-06	0. 13135E-06	0. 41080E-06	0. 12324E-06	10350
0. 41481E-06	0. 17007E-06	0. 12833E-06	0. 84696E-07	10351
0. 59158E-04	0. 29579E-05	0. 10274E-03	0. 51371E-05	10353
0. 30833E-04	0. 40083E-05	0. 70527E-05	0. 28916E-05	10359
0. 45174E-03	0. 23039E-03	0. 40422E-02	0. 88927E-03	10391
0. 46852E-01	0. 23426E-02	0. 64719E-01	0. 22005E-01	10392
0. 67387E-02	0. 33694E-03	0. 51783E-02	0. 25892E-03	10393
0. 57706E-03	0. 40394E-04	0. 35899E-03	0. 78977E-04	10394
0. 69386E-03	0. 41632E-04	0. 48636E-02	0. 24318E-03	10395
0. 18767E-02	0. 93835E-04	0. 16169E-02	0. 80845E-04	10396
0. 43100E-04	0. 43100E-05	0. 16000E-04	0. 27200E-05	10397
0. 34783E-05	0. 69567E-06	0. 14786E-05	0. 54708E-06	10436
0. 61936E-05	0. 12387E-05	0. 34650E-05	0. 12474E-05	10437
0. 75488E-02	0. 37744E-03	0. 53716E-02	0. 26858E-03	10438
0. 36303E-04	0. 18152E-05	0. 30800E-04	0. 24640E-05	10439
0. 50773E-05	0. 81236E-06	0. 12385E-03	0. 61925E-05	10440
0. 20999E-05	0. 44097E-06	0. 83579E-05	0. 15044E-05	10441
0. 20225E-05	0. 24270E-06	0. 91606E-05	0. 16489E-05	10443
0. 68388E-05	0. 41033E-06	0. 35521E-04	0. 42625E-05	10444
0. 90991E-04	0. 63694E-05	0. 13709E-02	0. 95961E-04	10445
0. 23334E-02	0. 11667E-03	0. 54490E-03	0. 27245E-04	10446
0. 94083E-03	0. 47041E-04	0. 18470E-02	0. 92350E-04	10447
0. 20532E-05	0. 45171E-06	0. 20207E-05	0. 36372E-06	10448
0. 30998E-04	0. 15499E-05	0. 19237E-03	0. 96187E-05	10556
0. 10392E-07	0. 11152E-08	0. 21727E-06	0. 10383E-07	10501
0. 52584E-08	0. 92706E-09	0. 42959E-08	0. 28359E-09	10503
0. 20035E-08	0. 24042E-09	0. 42054E-07	0. 21027E-08	10520
0. 56482E-08	0. 62130E-09	0. 39802E-07	0. 19901E-08	10521
0. 12380E-07	0. 61902E-09	0. 48047E-07	0. 24024E-08	10522
0. 41818E-08	0. 33454E-09	0. 56935E-07	0. 28468E-08	10523
0. 53302E-08	0. 42642E-09	0. 15940E-06	0. 79700E-08	10524
0. 46385E-06	0. 23193E-07	0. 23623E-05	0. 11811E-06	10525
0. 26100E-04	0. 13050E-05	0. 69900E-04	0. 34950E-05	10526
0. 33240E-08	0. 19944E-09	0. 25997E-07	0. 12999E-08	10527

0. 44452E-05	0. 57788E-06	0. 12644E-04	0. 11379E-05	10528
0. 62649E-03	0. 31325E-04	0. 28977E-03	0. 17398E-04	10529
0. 70030E-04	0. 42018E-05	0. 31044E-04	0. 18626E-05	10530
0. 22206E-04	0. 17765E-05	0. 69116E-03	0. 34558E-04	10531
0. 47441E-02	0. 23721E-03	0. 11798E-01	0. 17696E-02	10532
0. 49366E-02	0. 24683E-03	0. 57368E-02	0. 28684E-03	10533
0. 64114E-05	0. 12823E-05	0. 98024E-05	0. 11763E-05	10534
0. 37684E-05	0. 22610E-06	0. 27624E-04	0. 13812E-05	10551
0. 51649E-05	0. 12396E-05	0. 28299E-04	0. 96218E-05	10552
0. 18672E-07	0. 93362E-09	0. 36649E-06	0. 18325E-07	10557
0. 81600E-10	0. 19600E-10	0. 90300E-10	0. 19900E-10	10559
0. 34533E-09	0. 75973E-10	0. 31844E-09	0. 73242E-10	10561
0. 16889E-08	0. 20267E-09	0. 33290E-07	0. 16645E-08	10564
0. 90900E-10	0. 29100E-10	0. 38900E-10	0. 19900E-10	10565
0. 61100E-09	0. 12200E-09	0. 46300E-08	0. 23150E-09	10567
0. 35200E-04	0. 28200E-05	0. 92000E-04	0. 46000E-04	10569
0. 88300E-03	0. 44200E-04	0. 88000E-03	0. 44000E-04	10570
0. 30500E-03	0. 15250E-04	0. 68700E-03	0. 34350E-04	10571
0. 94700E-04	0. 85200E-05	0. 24000E-03	0. 38400E-04	10572
0. 20475E-05	0. 38902E-06	0. 13537E-05	0. 60918E-06	10574
0. 53000E-05	0. 53000E-06	0. 16200E-04	0. 13000E-05	10575
0. 34000E-05	0. 40800E-06	0. 37000E-05	0. 85100E-06	10577
0. 19626E-04	0. 35326E-05	0. 28598E-04	0. 42896E-05	10578
0. 31393E-02	0. 15697E-03	0. 37714E-03	0. 18857E-04	10604
0. 82576E-04	0. 41288E-05	0. 44713E-05	0. 24592E-05	10605
0. 38764E-07	0. 46516E-08	0. 25652E-07	0. 61566E-08	10596
0. 40651E-04	0. 48781E-05	0. 40914E-04	0. 77736E-05	10681
0. 10238E-03	0. 51188E-05	0. 16997E-04	0. 28895E-05	10682
0. 15915E-05	0. 35013E-06	0. 22645E-05	0. 58878E-06	10683
0. 41480E-04	0. 20740E-05	0. 33345E-04	0. 16672E-05	10684
0. 92298E-05	0. 11999E-05	0. 12729E-04	0. 35642E-05	10331
0. 18000E-08	0. 25200E-09	0. 77000E-07	0. 61600E-08	10332
0. 28200E-09	0. 84800E-10	0. 20000E-09	0. 10600E-09	10333
0. 32200E-08	0. 42000E-09	0. 34500E-08	0. 11700E-08	10334
0. 19056E-04	0. 17151E-05	0. 97700E-05	0. 34195E-05	10338
0. 40800E-09	0. 73200E-10	0. 11900E-08	0. 42800E-09	10339
0. 26059E-05	0. 41694E-06	0. 16622E-04	0. 83110E-06	10553
0. 18716E-05	0. 24330E-06	0. 26342E-04	0. 13171E-05	10554
0. 14967E-07	0. 40412E-08	0. 87124E-08	0. 13940E-08	10555
0. 61138E-08	0. 48911E-09	0. 21894E-07	0. 35031E-08	10645
0. 41363E-09	0. 86863E-10	0. 17168E-08	0. 34376E-09	10646
0. 44440E-04	0. 22220E-05	0. 12863E-04	0. 77179E-06	10647
0. 66258E-01	0. 33129E-02	0. 17554E+00	0. 87768E-02	10672
0. 25471E-03	0. 12735E-04	0. 34670E-03	0. 17335E-04	10758
0. 10222E-06	0. 91995E-08	0. 43507E-06	0. 21754E-07	10759
0. 30078E-07	0. 51133E-08	0. 21403E-07	0. 38526E-08	10760
0. 24373E-01	0. 12186E-02	0. 12075E+00	0. 60374E-02	10761
0. 22508E-02	0. 11254E-03	0. 33317E-02	0. 16659E-03	10762
0. 10093E-08	0. 34637E-09	0. 82937E-08	0. 57686E-09	10727
0. 61797E-04	0. 37078E-05	0. 27162E-05	0. 46175E-06	10729
0. 62420E-06	0. 31210E-07	0. 23765E-06	0. 21388E-07	10730
0. 24265E-05	0. 12132E-06	0. 75027E-06	0. 37514E-07	10731
0. 21769E-04	0. 13061E-05	0. 29366E-05	0. 49923E-06	10732
0. 69675E-07	0. 97545E-08	0. 44469E-07	0. 12896E-07	10808
0. 67313E-05	0. 17501E-05	0. 16100E-05	0. 67620E-06	10809
0. 41224E-05	0. 53591E-06	0. 16078E-05	0. 32155E-06	10810
0. 10515E-05	0. 29441E-06	0. 26311E-06	0. 16576E-06	10811
0. 18819E-05	0. 58340E-06	0. 15304E-05	0. 41322E-06	10812



## CORRELATION RESULTS

Nuclides Tested for Correlation are 239-PU and 238-PU

Test made on 22-OCT-84

Sorting Criteria are :

PWR

Number of entries in the fit is 498

Zero Offset Value, B0, is 5.72679E-11

Correlation Ratio, B1, is 8.40566E-01

Standard Deviation in B0 is 5.78724E-11

Standard Deviation in B1 is 4.57980E-02

F-TEST Value 11042.335

Confidence Level for this Correlation is: 99. %

PWR

0.69000E-02	0.34500E-03	0.11700E-01	0.58500E-03	9928
0.20400E-01	0.10200E-02	0.22300E-01	0.11150E-02	9929
0.26000E-07	0.20000E-08	0.25000E-07	0.20000E-08	7269
0.40400E-09	0.52000E-10	0.18300E-09	0.35000E-10	7267
0.88000E-08	0.60000E-09	0.10700E-07	0.90000E-09	6956
0.32000E-07	0.20000E-08	0.24000E-07	0.20000E-08	7268
0.32000E-07	0.20000E-08	0.27000E-07	0.13500E-08	6955
0.15000E-07	0.20000E-08	0.12000E-07	0.20000E-08	6724
0.67000E-06	0.60000E-07	0.24000E-06	0.20000E-07	6725
0.19000E-07	0.10000E-08	0.15000E-07	0.10000E-08	6728
0.14000E-06	0.10000E-07	0.10000E-06	0.10000E-07	6729
0.27000E-08	0.30000E-09	0.31000E-08	0.30000E-09	6730
0.35000E-07	0.30000E-08	0.76000E-07	0.60000E-08	7140
0.12000E-06	0.20000E-07	0.24000E-06	0.30000E-07	T089
0.18000E-08	0.10000E-09	0.60000E-09	0.60000E-10	6855
0.16000E-06	0.10000E-07	0.74000E-07	0.40000E-08	7164
0.49000E-06	0.24500E-07	0.11700E-05	0.60000E-07	7131
0.92000E-08	0.10000E-08	0.96000E-08	0.10000E-08	7130
0.15000E-08	0.60000E-09	0.18000E-08	0.60000E-09	7050
0.61000E-07	0.40000E-08	0.48000E-07	0.40000E-08	6843
0.62000E-08	0.31000E-09	0.52000E-08	0.30000E-09	7049
0.41000E-08	0.40000E-09	0.18000E-08	0.20000E-09	T098
0.62000E-08	0.70000E-09	0.43000E-08	0.70000E-09	6842
0.56400E-07	0.79000E-08	0.11300E-07	0.34000E-08	7655
0.66200E-08	0.40000E-09	0.11000E-07	0.60000E-09	7897
0.14000E-07	0.70000E-09	0.35200E-07	0.18000E-08	7924
0.33300E-05	0.12000E-05	0.96300E-05	0.33700E-05	7650
0.29400E-07	0.15000E-08	0.17500E-07	0.90000E-09	7896
0.20700E-07	0.10350E-08	0.58400E-07	0.29200E-08	7916
0.10900E-06	0.90000E-08	0.28800E-06	0.22000E-07	7440
0.59300E-06	0.29650E-07	0.14300E-05	0.71500E-07	7567
0.18300E-05	0.91500E-07	0.61500E-05	0.31000E-06	7892
0.14600E-08	0.29000E-09	0.33200E-07	0.75000E-08	7562
0.88300E-07	0.44150E-08	0.12500E-06	0.62500E-08	7888
0.92200E-08	0.46100E-09	0.29700E-07	0.49000E-08	7433
0.50900E-09	0.11000E-09	0.83000E-09	0.13000E-09	7654
0.33300E-08	0.23000E-09	0.33700E-08	0.21000E-09	8025
0.51700E-08	0.26000E-09	0.69400E-08	0.35000E-09	7653
0.95200E-08	0.48000E-08	0.19600E-07	0.10000E-08	7895
0.31800E-07	0.16000E-08	0.46500E-07	0.23250E-08	7917
0.13500E-06	0.13000E-07	0.12600E-06	0.14000E-07	7199
0.87900E-08	0.60000E-09	0.71600E-08	0.60000E-09	7385
0.69600E-07	0.34800E-08	0.54400E-07	0.30000E-08	7386
0.63200E-08	0.32000E-09	0.51300E-08	0.26000E-09	7432
0.90400E-08	0.45000E-09	0.74000E-08	0.37000E-09	7648
0.57900E-07	0.28950E-08	0.36100E-07	0.18050E-08	8026
0.41000E+00	0.20500E-01	0.16400E+00	0.82000E-02	9034
0.60000E-06	0.40000E-07	0.55000E-06	0.40000E-07	9652
0.18000E-05	0.40000E-06	0.67000E-05	0.80000E-06	T500M
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0.26000E-08	0.13000E-08	0.30000E-08	0.15000E-08	8647
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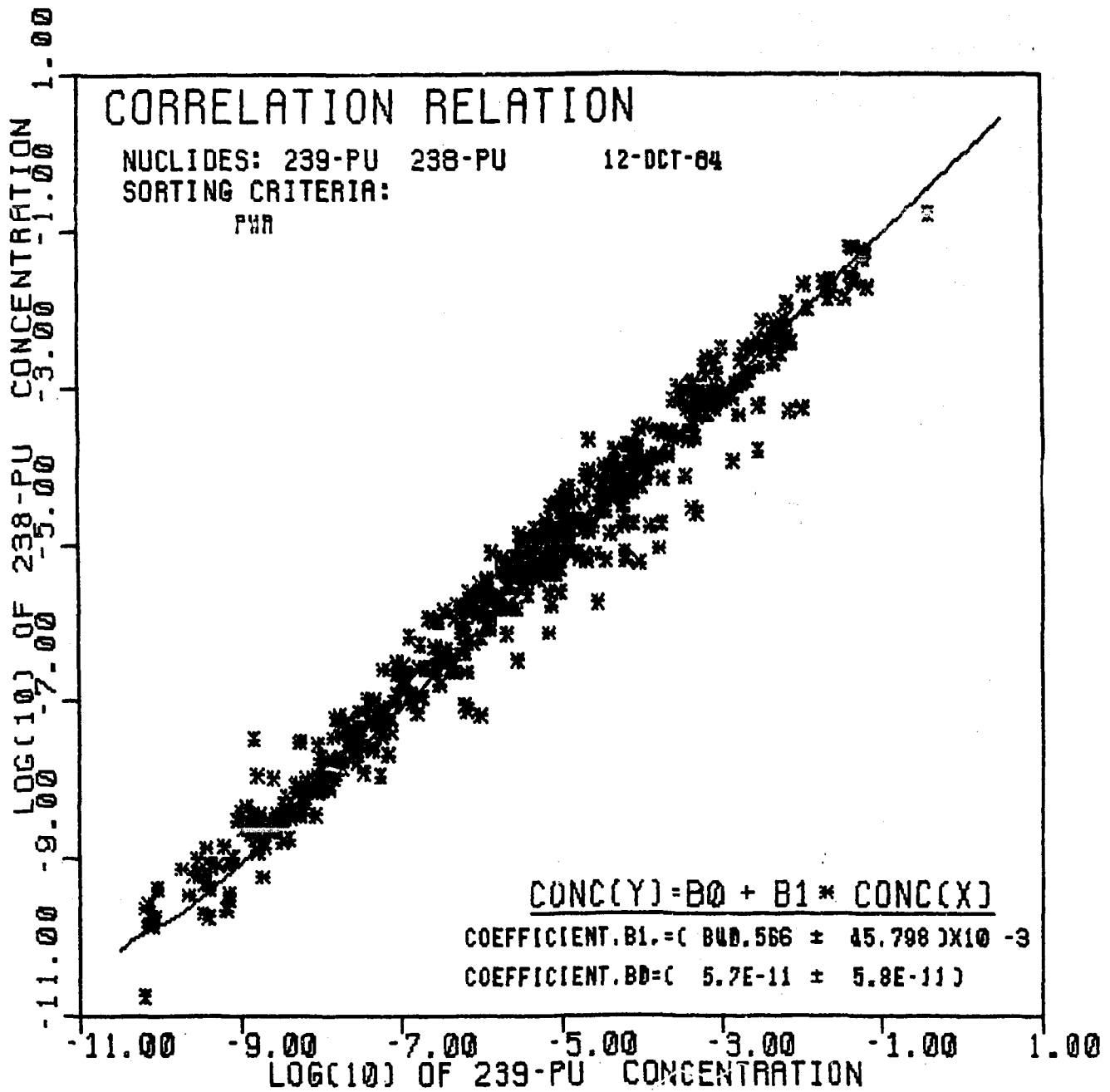
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0. 20100E-03	0. 10050E-04	0. 24500E-03	0. 13000E-04	10066
0. 10400E-04	0. 52000E-06	0. 10700E-04	0. 60000E-06	10013
0. 13000E-04	0. 65000E-06	0. 11600E-04	0. 58000E-06	10014
0. 53000E-05	0. 60000E-06	0. 78000E-05	0. 68000E-06	10015

0. 37200E-05	0. 28000E-06	0. 47400E-05	0. 33000E-06	10016
0. 41000E-07	0. 34000E-08	0. 26000E-07	0. 30000E-08	9992
0. 19000E-05	0. 40000E-06	0. 45000E-05	0. 50000E-06	9993
0. 11500E-08	0. 20000E-09	0. 23000E-08	0. 30000E-09	9994
0. 54700E-08	0. 35000E-09	0. 30300E-07	0. 15150E-08	9995
0. 46200E-01	0. 23100E-02	0. 62400E-01	0. 31200E-02	9974
0. 40600E-02	0. 20300E-03	0. 30200E-02	0. 15100E-03	9973
0. 14800E-03	0. 74000E-05	0. 12300E-03	0. 61500E-05	10026
0. 51000E-03	0. 25500E-04	0. 44100E-03	0. 22050E-04	10027
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0. 73300E-05	0. 36650E-06	0. 16900E-05	0. 84500E-07	9963
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0. 28100E-04	0. 14050E-05	0. 18800E-05	0. 20000E-06	10144
0. 99300E-04	0. 49650E-05	0. 58400E-05	0. 59000E-06	10145
0. 33600E-05	0. 66000E-06	0. 43600E-05	0. 69000E-06	10146
0. 43100E-08	0. 26000E-09	0. 43000E-08	0. 26000E-09	10121
0. 65300E-06	0. 32650E-07	0. 79600E-07	0. 39800E-08	10072
0. 12000E-07	0. 10000E-08	0. 19000E-07	0. 20000E-08	10079
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0. 27600E-02	0. 13800E-03	0. 35800E-02	0. 17900E-03	10075
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0. 63500E-07	0. 31750E-08	0. 83800E-07	0. 41900E-08	10078
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0. 52100E-05	0. 37000E-06	0. 37200E-05	0. 30000E-06	10111
0. 27300E-06	0. 42000E-07	0. 26700E-06	0. 41000E-07	10112
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0. 13600E-04	0. 13000E-05	0. 16000E-04	0. 14000E-05	10116
0. 73100E-05	0. 11000E-05	0. 12400E-04	0. 14000E-05	10118
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0. 22600E-05	0. 46000E-06	0. 28700E-05	0. 52000E-06	10139
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0. 63000E-07	0. 60000E-08	0. 26000E-06	0. 14000E-07	10153
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0. 25000E-08	0. 60000E-09	0. 11000E-07	0. 10000E-08	10170
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0. 75000E-10	0. 23000E-10	0. 18000E-09	0. 30000E-10	10174
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0. 13000E-06	0. 30000E-07	0. 67000E-06	0. 60000E-07	10176
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0. 39523E-03	0. 19761E-04	0. 52964E-03	0. 26482E-04	10209
0. 85807E-07	0. 16722E-07	0. 98922E-07	0. 17792E-07	10206
0. 17599E-07	0. 65116E-08	0. 20742E-07	0. 70522E-08	10205
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0. 48362E-04	0. 24181E-05	0. 10653E-03	0. 53265E-05	10246
0. 21039E-04	0. 33662E-05	0. 71404E-05	0. 19279E-05	10247

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0. 11617E-03	0. 92939E-05	0. 31450E-03	0. 15725E-04	10231
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0. 20570E-04	0. 18513E-05	0. 62702E-05	0. 10659E-05	10235
0. 74185E-05	0. 11870E-05	0. 41603E-05	0. 91528E-06	10236
0. 11122E-01	0. 55610E-03	0. 56364E-03	0. 28182E-04	10237
0. 29856E-02	0. 14928E-03	0. 15674E-03	0. 78370E-05	10238
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0. 35658E-05	0. 96277E-06	0. 47096E-05	0. 11303E-05	10225
0. 29699E-06	0. 95037E-07	0. 10357E-05	0. 17606E-06	10273
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0. 24002E-07	0. 43204E-08	0. 29379E-07	0. 47006E-08	10285
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0. 86772E-03	0. 43386E-04	0. 56286E-03	0. 28143E-04	10287
0. 12243E-05	0. 13467E-06	0. 95094E-06	0. 11411E-06	10289
0. 25330E-09	0. 81056E-10	0. 63325E-09	0. 12665E-09	10307
0. 56464E-08	0. 79050E-07	0. 31649E-07	0. 13817E-07	10308
0. 38291E-04	0. 19146E-05	0. 45469E-04	0. 22735E-05	10311
0. 50552E-04	0. 96050E-05	0. 74249E-04	0. 12622E-04	10312
0. 29090E-05	0. 69817E-06	0. 70587E-05	0. 10588E-05	10313
0. 24345E-05	0. 60863E-06	0. 41844E-05	0. 79503E-06	10314
0. 92536E-04	0. 64775E-05	0. 11445E-03	0. 80114E-05	10293
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0. 36464E-06	0. 40110E-07	0. 34229E-06	0. 37652E-07	10297
0. 39737E-02	0. 19869E-03	0. 44119E-02	0. 22060E-03	10298
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0. 32800E-05	0. 19040E-05	0. 63000E-05	0. 25200E-05	10300
0. 41552E-05	0. 12466E-05	0. 92548E-05	0. 18510E-05	10390
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0. 84642E-08	0. 21534E-08	0. 37070E-08	0. 13780E-08	10375
0. 27424E-06	0. 90501E-07	0. 10896E-05	0. 18523E-06	10377
0. 32848E-04	0. 22994E-05	0. 64712E-04	0. 38827E-05	10399
0. 37806E-04	0. 18903E-05	0. 87200E-04	0. 43600E-05	10400
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0. 30625E-07	0. 64313E-08	0. 45421E-07	0. 77214E-08	10402
0. 38646E-07	0. 54104E-08	0. 11010E-06	0. 88079E-08	10403
0. 19742E-07	0. 41459E-08	0. 40714E-07	0. 61071E-08	10404
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0. 14677E-08	0. 46967E-09	0. 31672E-08	0. 69679E-09	10462
0. 14989E-05	0. 89931E-07	0. 21067E-05	0. 10534E-06	10466
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0. 17602E-06	0. 17602E-07	0. 26403E-06	0. 23762E-07	10468
0. 35537E-08	0. 12631E-08	0. 49824E-08	0. 14711E-08	10457
0. 27176E-08	0. 65177E-09	0. 22736E-08	0. 62250E-09	10458
0. 56589E-08	0. 12919E-08	0. 36846E-08	0. 10489E-08	10459
0. 34248E-09	0. 92471E-10	0. 50714E-09	0. 11664E-09	10472
0. 69682E-09	0. 14633E-09	0. 30436E-09	0. 97394E-10	10473
0. 94726E-05	0. 10420E-05	0. 10768E-04	0. 10768E-05	10476
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0. 61502E-07	0. 11685E-07	0. 70786E-07	0. 12741E-07	10277
0. 93230E-06	0. 12120E-06	0. 12604E-05	0. 15125E-06	10278
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0. 30726E-03	0. 24581E-04	0. 66728E-03	0. 46710E-04	10336
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0. 37529E-06	0. 13135E-06	0. 38666E-06	0. 13146E-06	10350
0. 41481E-06	0. 17007E-06	0. 27654E-06	0. 13827E-06	10351
0. 11176E-04	0. 55881E-06	0. 91881E-05	0. 45941E-06	10352
0. 59158E-04	0. 29579E-05	0. 39709E-04	0. 19855E-05	10353
0. 84823E-05	0. 13572E-05	0. 41881E-05	0. 92139E-06	10354
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0. 66161E-05	0. 11247E-05	0. 45242E-05	0. 90485E-06	10356
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0. 61936E-05	0. 12387E-05	0. 56880E-05	0. 11945E-05	10437
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0. 36303E-04	0. 18152E-05	0. 64664E-05	0. 84063E-06	10439
0. 50773E-05	0. 81236E-06	0. 63466E-05	0. 88852E-06	10440
0. 20999E-05	0. 44097E-06	0. 47066E-05	0. 65892E-06	10441
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0. 68388E-05	0. 41033E-06	0. 88176E-05	0. 52906E-06	10444
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0. 52584E-08	0. 92706E-09	0. 71962E-08	0. 10624E-08	10503
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0. 56482E-08	0. 62130E-09	0. 40389E-08	0. 52506E-09	10521
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0. 41818E-08	0. 33454E-09	0. 33196E-08	0. 26557E-09	10523
0. 53302E-08	0. 42642E-09	0. 76016E-08	0. 53211E-09	10524
0. 46385E-06	0. 23193E-07	0. 24019E-06	0. 12010E-07	10525
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0. 33240E-08	0. 19944E-09	0. 30775E-08	0. 21543E-09	10527
0. 44452E-05	0. 57788E-06	0. 89462E-05	0. 80516E-06	10528

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0. 47441E-02	0. 23721E-03	0. 35723E-02	0. 17862E-03	10532
0. 49366E-02	0. 24683E-03	0. 33600E-02	0. 16800E-03	10533
0. 64114E-05	0. 12823E-05	0. 10371E-04	0. 15557E-05	10534
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0. 16889E-08	0. 20267E-09	0. 35493E-08	0. 31943E-09	10564
0. 90900E-10	0. 29100E-10	0. 42100E-09	0. 63100E-10	10565
0. 61100E-09	0. 12200E-09	0. 14600E-08	0. 19000E-09	10567
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0. 88300E-03	0. 44200E-04	0. 91000E-03	0. 45500E-04	10570
0. 30500E-03	0. 15250E-04	0. 10300E-02	0. 51500E-04	10571
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0. 79000E-06	0. 18200E-06	0. 56000E-06	0. 15100E-06	10573
0. 20475E-05	0. 38902E-06	0. 16032E-05	0. 35270E-06	10574
0. 53000E-05	0. 53000E-06	0. 95100E-05	0. 66600E-06	10575
0. 64100E-04	0. 32100E-05	0. 23000E-04	0. 11500E-05	10576
0. 34000E-05	0. 40800E-06	0. 53700E-05	0. 48300E-06	10577
0. 19626E-04	0. 35326E-05	0. 40258E-04	0. 52335E-05	10578
0. 31393E-02	0. 15697E-03	0. 60987E-03	0. 30494E-04	10604
0. 82576E-04	0. 41288E-05	0. 18807E-04	0. 15045E-05	10605
0. 38764E-07	0. 46516E-08	0. 57321E-07	0. 57321E-08	10596
0. 40651E-04	0. 48781E-05	0. 78479E-04	0. 70632E-05	10681
0. 10238E-03	0. 51188E-05	0. 11932E-03	0. 59660E-05	10682
0. 15915E-05	0. 35013E-06	0. 21543E-05	0. 40932E-06	10683
0. 41480E-04	0. 20740E-05	0. 49877E-04	0. 24938E-05	10684
0. 92298E-05	0. 11999E-05	0. 34834E-04	0. 24384E-05	10331
0. 18000E-08	0. 25200E-09	0. 22000E-08	0. 26400E-09	10332
0. 28200E-09	0. 84800E-10	0. 10100E-08	0. 16100E-09	10333
0. 32200E-08	0. 42000E-09	0. 16500E-08	0. 29800E-09	10334
0. 19056E-04	0. 17151E-05	0. 19975E-04	0. 17978E-05	10338
0. 40800E-09	0. 73200E-10	0. 41800E-09	0. 75000E-10	10339
0. 26059E-05	0. 41694E-06	0. 67033E-05	0. 73736E-06	10553
0. 18716E-05	0. 24330E-06	0. 46280E-05	0. 37024E-06	10554
0. 14967E-07	0. 40412E-08	0. 64388E-07	0. 83705E-08	10555
0. 61138E-08	0. 48911E-09	0. 63180E-08	0. 50544E-09	10645
0. 41363E-09	0. 86863E-10	0. 77671E-09	0. 11651E-09	10646
0. 44440E-04	0. 22220E-05	0. 37415E-04	0. 18707E-05	10647
0. 66258E-01	0. 33129E-02	0. 56820E-01	0. 28410E-02	10672
0. 25471E-03	0. 12735E-04	0. 28690E-03	0. 14345E-04	10758
0. 10222E-06	0. 91995E-08	0. 18719E-06	0. 11232E-07	10759
0. 30078E-07	0. 51133E-08	0. 38433E-07	0. 57650E-08	10760
0. 24373E-01	0. 12186E-02	0. 24668E-01	0. 12334E-02	10761
0. 22508E-02	0. 11254E-03	0. 13050E-02	0. 65250E-04	10762
0. 10093E-08	0. 34637E-09	0. 40517E-08	0. 82469E-09	10727
0. 61797E-04	0. 37078E-05	0. 32446E-04	0. 22712E-05	10729
0. 62420E-06	0. 31210E-07	0. 41747E-06	0. 25048E-07	10730
0. 24265E-05	0. 12132E-06	0. 15357E-05	0. 76783E-07	10731
0. 21769E-04	0. 13061E-05	0. 14185E-04	0. 11348E-05	10732
0. 69675E-07	0. 97545E-08	0. 21114E-07	0. 52784E-08	10808
0. 67313E-05	0. 17501E-05	0. 20542E-04	0. 30813E-05	10809
0. 41224E-05	0. 53591E-06	0. 63790E-05	0. 63790E-06	10810
0. 10515E-05	0. 29441E-06	0. 17524E-05	0. 38554E-06	10811
0. 18819E-05	0. 58340E-06	0. 58810E-05	0. 10586E-05	10812



## CORRELATION RESULTS

Nuclides Tested for Correlation are 239-PU and 241-PU

Test made on 18-OCT-84

Sorting Criteria are :

PWR

Number of entries in the fit is 265

Zero Offset Value, B0, is 6.08922E-08

Correlation Ratio, B1, is 2.96783E+01

Standard Deviation in B0 is 4.66613E-08

Standard Deviation in B1 is 2.94192E+00

F-TEST Value is 164.905

Confidence Level for this Correlation is: 99. %

## PWR

0. 26000E-07	0. 20000E-08	0. 15900E-05	0. 27000E-06	7269
0. 32000E-07	0. 20000E-08	0. 17800E-05	0. 23000E-06	7268
0. 32000E-07	0. 20000E-08	0. 20400E-05	0. 94000E-06	6955
0. 67000E-06	0. 60000E-07	0. 31100E-04	0. 23000E-05	6725
0. 14000E-06	0. 10000E-07	0. 12800E-05	0. 64000E-07	6729
0. 12000E-06	0. 20000E-07	0. 32900E-04	0. 16450E-05	T089
0. 49000E-06	0. 24500E-07	0. 39500E-04	0. 18000E-04	7131
0. 61000E-07	0. 40000E-08	0. 74900E-05	0. 37450E-06	6843
0. 14000E-07	0. 70000E-09	0. 92000E-06	0. 45000E-06	7924
0. 50000E-09	0. 11000E-09	0. 69000E-07	0. 27000E-07	7654
0. 31800E-07	0. 16000E-08	0. 15000E-05	0. 80000E-06	7917
0. 87900E-08	0. 60000E-09	0. 20000E-06	0. 11000E-06	7385
0. 69600E-07	0. 34800E-08	0. 50000E-05	0. 80000E-06	7386
0. 90400E-08	0. 45000E-09	0. 23000E-05	0. 39000E-06	7648
0. 27000E-03	0. 40000E-04	0. 60000E-02	0. 30000E-02	T074
0. 10000E-05	0. 20000E-06	0. 15000E-03	0. 50000E-04	T078
0. 22000E-03	0. 20000E-04	0. 45000E-02	0. 17000E-02	7149
0. 34500E-04	0. 18000E-05	0. 19900E-02	0. 59000E-03	7188
0. 74000E-04	0. 44000E-05	0. 11900E-02	0. 20200E-03	7445
0. 49000E-03	0. 24500E-04	0. 36700E-01	0. 18350E-02	10007
0. 91000E-10	0. 15000E-10	0. 12000E-06	0. 20000E-07	10008
0. 43000E-06	0. 21500E-07	0. 27000E-04	0. 30000E-05	10010
0. 70000E-05	0. 10000E-05	0. 60000E-03	0. 40000E-03	10011
0. 23000E-04	0. 20000E-05	0. 12000E-03	0. 40000E-04	7153
0. 45000E-02	0. 50000E-03	0. 16000E-01	0. 60000E-02	T075
0. 47000E-03	0. 60000E-04	0. 68000E-02	0. 30000E-02	T080
0. 72000E-04	0. 40000E-05	0. 30400E-02	0. 46200E-03	7147
0. 12400E-04	0. 62000E-06	0. 38000E-02	0. 11000E-02	7186
0. 53000E-04	0. 50000E-05	0. 67000E-02	0. 22000E-02	T043
0. 71500E-03	0. 36000E-04	0. 14000E+00	0. 70000E-02	8003
0. 82500E-05	0. 21400E-05	0. 12500E-03	0. 62000E-04	7684
0. 47000E-02	0. 50000E-03	0. 15000E-01	0. 10000E-01	T084
0. 16000E-03	0. 10000E-04	0. 39300E-01	0. 24000E-02	7196
0. 48000E-01	0. 60000E-02	0. 18000E+01	0. 10000E+01	T044
0. 59000E-02	0. 70000E-03	0. 39000E+00	0. 20000E+00	T045
0. 57200E-02	0. 29000E-03	0. 41000E+00	0. 12000E+00	7694
0. 46200E-01	0. 23100E-02	0. 45000E+01	0. 50000E+00	9974
0. 40600E-02	0. 20300E-03	0. 55000E+00	0. 11000E+00	9973
0. 58800E-03	0. 29400E-04	0. 52300E-01	0. 26150E-02	10108
0. 31500E-05	0. 17000E-06	0. 40300E-03	0. 20150E-04	10109
0. 60200E-05	0. 30100E-06	0. 73100E-03	0. 36550E-04	10110
0. 52100E-05	0. 37000E-06	0. 57800E-03	0. 28900E-04	10111
0. 27300E-06	0. 42000E-07	0. 44700E-04	0. 19000E-04	10112
0. 37000E-05	0. 81000E-06	0. 54700E-03	0. 70000E-04	10113
0. 71300E-03	0. 35650E-04	0. 83000E-01	0. 41500E-02	10114
0. 52100E-02	0. 26050E-03	0. 86500E+00	0. 43250E-01	10115
0. 13600E-04	0. 13000E-05	0. 22200E-02	0. 23000E-03	10116
0. 36600E-05	0. 51000E-06	0. 71300E-03	0. 27000E-03	10117
0. 73100E-05	0. 11000E-05	0. 12900E-02	0. 27000E-03	10118
0. 56200E-06	0. 28100E-07	0. 50900E-03	0. 25450E-04	10138
0. 22600E-05	0. 46000E-06	0. 52500E-03	0. 59000E-04	10139
0. 10400E-03	0. 52000E-05	0. 87000E-02	0. 43500E-03	10140
0. 22422E-07	0. 11354E-08	0. 43400E-05	0. 19876E-06	10137
0. 13000E-07	0. 10000E-08	0. 17000E-05	0. 20000E-06	10149
0. 37000E-08	0. 70000E-09	0. 27000E-05	0. 30000E-06	10150
0. 57000E-08	0. 13000E-08	0. 96000E-06	0. 24000E-06	10151
0. 53000E-04	0. 50000E-05	0. 10700E-01	0. 70000E-03	10152
0. 63000E-07	0. 60000E-08	0. 59000E-04	0. 29000E-04	10153
0. 11000E-06	0. 10000E-07	0. 46000E-04	0. 60000E-05	10155
0. 47000E-07	0. 13000E-07	0. 64000E-04	0. 90000E-05	10156
0. 10000E-04	0. 10000E-05	0. 37000E-02	0. 80000E-03	10157

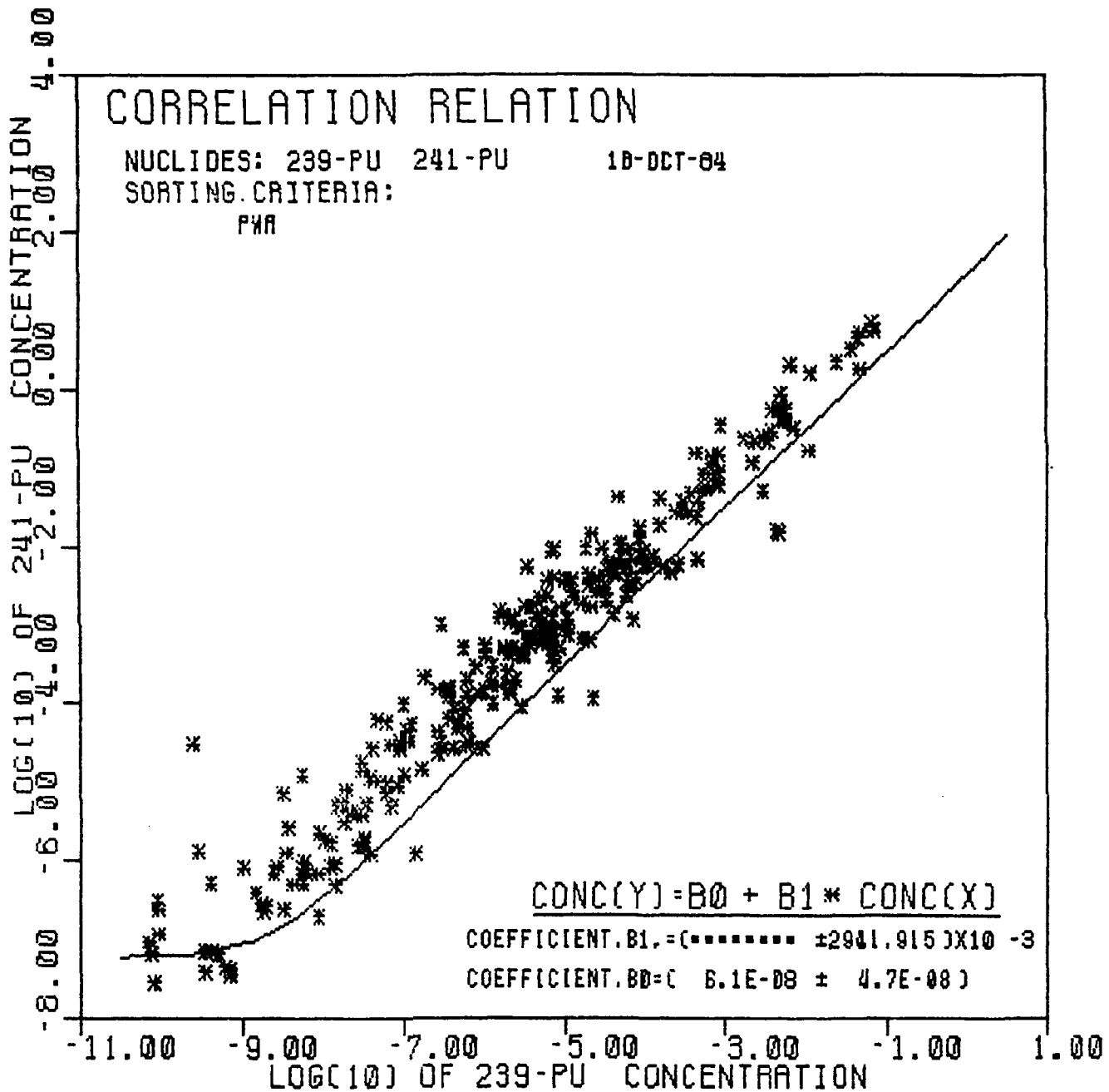


0. 35300E-02	0. 17650E-03	0. 22400E+00	0. 11200E-01	10159
0. 74000E-05	0. 26000E-05	0. 94000E-02	0. 31000E-02	10161
0. 70000E-10	0. 22000E-10	0. 95000E-07	0. 11000E-07	10171
0. 75000E-10	0. 23000E-10	0. 68000E-07	0. 14000E-07	10174
0. 35000E-06	0. 80000E-07	0. 14900E-03	0. 30000E-04	10175
0. 13000E-06	0. 30000E-07	0. 54900E-04	0. 11000E-04	10176
0. 10000E-06	0. 40000E-07	0. 10000E-03	0. 30000E-04	10177
0. 12000E-04	0. 10000E-05	0. 33500E-02	0. 67000E-03	10178
0. 47000E-07	0. 13000E-07	0. 64000E-04	0. 90000E-05	10156
0. 77008E-04	0. 46205E-05	0. 76025E-02	0. 38012E-03	10207
0. 63565E-04	0. 31783E-05	0. 89336E-02	0. 44668E-03	10208
0. 39523E-03	0. 19761E-04	0. 47234E-01	0. 23617E-02	10209
0. 85807E-07	0. 16722E-07	0. 91991E-05	0. 13199E-05	10206
0. 17599E-07	0. 65116E-08	0. 54392E-05	0. 12695E-05	10205
0. 45666E-05	0. 73066E-06	0. 12584E-02	0. 16359E-03	10212
0. 16686E-04	0. 13349E-05	0. 65817E-03	0. 17113E-03	10213
0. 41281E-07	0. 99074E-08	0. 27024E-04	0. 89180E-05	10248
0. 48362E-04	0. 24181E-05	0. 42000E-01	0. 12600E-01	10246
0. 21039E-04	0. 33662E-05	0. 32256E-02	0. 73542E-03	10247
0. 42555E-07	0. 24090E-07	0. 34603E-04	0. 79586E-05	10230
0. 11617E-03	0. 92939E-05	0. 53833E-02	0. 48450E-03	10231
0. 30430E-05	0. 42602E-06	0. 42000E-03	0. 13020E-03	10232
0. 45056E-03	0. 22528E-04	0. 23581E-01	0. 11791E-02	10233
0. 17160E-03	0. 85800E-05	0. 54800E-02	0. 27400E-03	10234
0. 20570E-04	0. 18513E-05	0. 63536E-03	0. 50829E-04	10235
0. 74185E-05	0. 11870E-05	0. 32277E-03	0. 83920E-04	10236
0. 11122E-01	0. 55610E-03	0. 16584E+00	0. 82920E-02	10237
0. 29856E-02	0. 14928E-03	0. 50461E-01	0. 25231E-02	10238
0. 88051E-10	0. 36101E-10	0. 31104E-06	0. 21773E-07	10222
0. 35658E-05	0. 96277E-06	0. 53698E-02	0. 53698E-03	10225
0. 29699E-06	0. 95037E-07	0. 99014E-03	0. 49507E-04	10273
0. 36600E-03	0. 18300E-04	0. 27500E-01	0. 13750E-02	10274
0. 24002E-07	0. 43204E-08	0. 41222E-05	0. 11130E-05	10285
0. 84859E-03	0. 42430E-04	0. 14550E+00	0. 72750E-02	10286
0. 86772E-03	0. 43386E-04	0. 59908E-01	0. 29954E-02	10287
0. 12243E-05	0. 13467E-06	0. 18813E-03	0. 24457E-04	10289
0. 25330E-09	0. 81056E-10	0. 31283E-04	0. 12400E-04	10307
0. 56464E-08	0. 79050E-09	0. 12209E-04	0. 29651E-05	10308
0. 38291E-04	0. 19146E-05	0. 60000E-02	0. 15000E-02	10311
0. 50552E-04	0. 96050E-05	0. 10300E-01	0. 27810E-02	10312
0. 29090E-05	0. 69817E-06	0. 93757E-03	0. 23439E-03	10313
0. 24345E-05	0. 60863E-06	0. 13000E-02	0. 31200E-03	10314
0. 92536E-04	0. 64775E-05	0. 13008E-01	0. 91054E-03	10293
0. 19300E-05	0. 19300E-06	0. 25800E-03	0. 49020E-04	10294
0. 17648E-04	0. 88240E-06	0. 18284E-02	0. 91422E-04	10295
0. 62949E-06	0. 11331E-06	0. 12472E-03	0. 39910E-04	10296
0. 36464E-06	0. 40110E-07	0. 63465E-04	0. 15232E-04	10297
0. 39737E-02	0. 19869E-03	0. 28956E+00	0. 14478E-01	10298
0. 74600E-05	0. 35062E-05	0. 39000E-02	0. 35100E-03	10299
0. 32800E-05	0. 18040E-05	0. 16900E-02	0. 43940E-03	10300
0. 41552E-05	0. 12466E-05	0. 17600E-02	0. 31680E-03	10390
0. 18522E-06	0. 33340E-07	0. 22000E-03	0. 88000E-04	10366
0. 70480E-09	0. 12686E-09	0. 37175E-07	0. 16729E-07	10364
0. 14429E-07	0. 20201E-08	0. 50650E-06	0. 26844E-06	10370
0. 84642E-08	0. 21534E-08	0. 69492E-06	0. 19487E-06	10375
0. 27424E-06	0. 90501E-07	0. 23600E-04	0. 10620E-04	10377
0. 32848E-04	0. 22994E-05	0. 28402E-02	0. 14201E-03	10399
0. 37806E-04	0. 18903E-05	0. 46762E-02	0. 42085E-03	10400
0. 89300E-07	0. 28600E-07	0. 25900E-04	0. 69800E-05	10401
0. 30625E-07	0. 64313E-08	0. 18326E-04	0. 38484E-05	10402
0. 38646E-07	0. 54104E-08	0. 11681E-04	0. 28036E-05	10403
0. 19742E-07	0. 41459E-08	0. 81536E-05	0. 22014E-05	10404
0. 12896E-05	0. 34820E-06	0. 28689E-03	0. 16353E-03	10405

0. 24533E-08	0. 88320E-09	0. 72067E-06	0. 20179E-06	10460
0. 35649E-07	0. 42778E-08	0. 54609E-05	0. 14745E-05	10461
0. 14677E-08	0. 46967E-09	0. 41065E-06	0. 20943E-06	10462
0. 14989E-05	0. 89931E-07	0. 16361E-03	0. 16361E-04	10466
0. 29145E-06	0. 29145E-07	0. 30957E-04	0. 37148E-05	10467
0. 17602E-06	0. 17602E-07	0. 14500E-04	0. 33350E-05	10468
0. 35537E-08	0. 12631E-08	0. 12893E-05	0. 30762E-06	10457
0. 27176E-08	0. 65177E-09	0. 87718E-06	0. 26373E-06	10458
0. 56589E-08	0. 12919E-08	0. 76820E-06	0. 23515E-06	10459
0. 34248E-09	0. 92471E-10	0. 39919E-07	0. 15169E-07	10472
0. 69682E-09	0. 14633E-09	0. 41639E-07	0. 19154E-07	10473
0. 94724E-05	0. 10420E-05	0. 87276E-03	0. 13964E-03	10476
0. 61032E-06	0. 79341E-07	0. 19862E-03	0. 37738E-04	10284
0. 30044E-07	0. 12318E-07	0. 14345E-04	0. 12911E-05	10275
0. 45400E-07	0. 95340E-08	0. 10400E-04	0. 17680E-05	10276
0. 61502E-07	0. 11685E-07	0. 10067E-04	0. 15101E-05	10277
0. 93230E-06	0. 12120E-06	0. 13166E-03	0. 14483E-04	10278
0. 30120E-06	0. 57228E-07	0. 25917E-04	0. 64794E-05	10279
0. 56749E-06	0. 15890E-06	0. 80213E-04	0. 13636E-04	10280
0. 11797E-01	0. 58985E-03	0. 16228E+01	0. 16228E+00	10281
0. 58205E-02	0. 29103E-03	0. 55502E+00	0. 27751E-01	10282
0. 20517E-04	0. 47190E-05	0. 44000E-02	0. 35200E-03	10283
0. 13434E-03	0. 67170E-05	0. 72120E-02	0. 36060E-03	10290
0. 69211E-01	0. 34606E-02	0. 55105E+01	0. 27553E+00	10304
0. 12934E-05	0. 38801E-06	0. 98682E-04	0. 28618E-04	10305
0. 95896E-06	0. 47948E-07	0. 27016E-04	0. 24314E-05	10303
0. 29425E-05	0. 14713E-06	0. 92470E-04	0. 83223E-05	10306
0. 18264E-05	0. 32876E-06	0. 13233E-02	0. 17203E-03	10301
0. 27059E-06	0. 67648E-07	0. 15173E-03	0. 28828E-04	10302
0. 37089E-01	0. 18545E-02	0. 33061E+01	0. 16531E+00	10406
0. 30106E-03	0. 15053E-04	0. 29846E-01	0. 14923E-02	10387
0. 61265E-06	0. 30633E-07	0. 28290E-04	0. 28290E-05	10329
0. 15818E-03	0. 11073E-04	0. 19038E-01	0. 95190E-03	10330
0. 27524E-04	0. 16515E-05	0. 40337E-02	0. 60506E-03	10335
0. 30726E-03	0. 24581E-04	0. 28205E-01	0. 31026E-02	10336
0. 10201E-05	0. 14281E-06	0. 55441E-03	0. 83162E-04	10337
0. 16518E-05	0. 44600E-06	0. 14538E-02	0. 13084E-03	10340
0. 37828E-06	0. 87004E-07	0. 12004E-03	0. 37214E-04	10349
0. 37529E-06	0. 13135E-06	0. 16291E-03	0. 32583E-04	10350
0. 41481E-06	0. 17007E-06	0. 85491E-04	0. 27357E-04	10351
0. 11176E-04	0. 55881E-06	0. 11553E-02	0. 57765E-04	10352
0. 59158E-04	0. 29579E-05	0. 61172E-02	0. 30586E-03	10353
0. 84823E-05	0. 13572E-05	0. 49971E-03	0. 14491E-03	10354
0. 11260E-04	0. 19141E-05	0. 74600E-03	0. 29840E-03	10355
0. 66161E-05	0. 11247E-05	0. 82482E-03	0. 27219E-03	10356
0. 12725E-04	0. 41992E-05	0. 25771E-02	0. 15978E-02	10357
0. 26700E-05	0. 74760E-06	0. 40800E-03	0. 14688E-03	10358
0. 30833E-04	0. 40083E-05	0. 92113E-02	0. 15659E-02	10359
0. 69413E-05	0. 41648E-05	0. 85896E-02	0. 17179E-02	10360
0. 61914E-04	0. 11764E-04	0. 23007E-02	0. 13804E-02	10363
0. 45174E-03	0. 23039E-03	0. 15504E+00	0. 43410E-01	10391
0. 46852E-01	0. 23426E-02	0. 53069E+01	0. 47762E+00	10392
0. 67387E-02	0. 33694E-03	0. 19879E+01	0. 99396E-01	10393
0. 57706E-03	0. 40394E-04	0. 84194E-01	0. 75774E-02	10394
0. 69386E-03	0. 41632E-04	0. 11400E+00	0. 10260E-01	10395
0. 18767E-02	0. 93835E-04	0. 23728E+00	0. 11864E-01	10396
0. 43100E-04	0. 43100E-05	0. 14000E-02	0. 37800E-03	10397
0. 63236E-05	0. 17706E-05	0. 36387E-02	0. 61858E-03	10398
0. 71000E-05	0. 16330E-05	0. 40000E-03	0. 14800E-03	10435
0. 34783E-05	0. 69567E-06	0. 67700E-03	0. 27757E-03	10436
0. 61936E-05	0. 12387E-05	0. 22900E-02	0. 18320E-03	10437
0. 75488E-02	0. 37744E-03	0. 31163E+00	0. 56093E-01	10438
0. 36303E-04	0. 18152E-05	0. 66482E-02	0. 73130E-03	10439

0. 50773E-05	0. 81236E-06	0. 22522E-02	0. 36035E-03	10440
0. 20999E-05	0. 44097E-06	0. 10536E-02	0. 24232E-03	10441
0. 20225E-05	0. 24270E-06	0. 41400E-03	0. 78660E-04	10443
0. 68388E-05	0. 41033E-06	0. 79059E-03	0. 39530E-04	10444
0. 90991E-04	0. 63694E-05	0. 17318E-01	0. 86590E-03	10445
0. 23334E-02	0. 11667E-03	0. 21791E+00	0. 21791E-01	10446
0. 94083E-03	0. 47041E-04	0. 34744E+00	0. 17372E-01	10447
0. 20532E-05	0. 45171E-06	0. 15530E-03	0. 45037E-04	10448
0. 30798E-04	0. 15499E-05	0. 30138E-02	0. 15069E-03	10556
0. 10392E-07	0. 11152E-08	0. 18643E-05	0. 27738E-06	10501
0. 52584E-08	0. 92706E-09	0. 71083E-06	0. 21674E-06	10503
0. 20035E-08	0. 24042E-09	0. 26975E-06	0. 35067E-07	10520
0. 56482E-08	0. 62130E-09	0. 52193E-06	0. 57412E-07	10521
0. 12380E-07	0. 61902E-09	0. 84007E-06	0. 92408E-07	10522
0. 41818E-08	0. 33454E-09	0. 51486E-06	0. 97824E-07	10523
0. 53302E-08	0. 42642E-09	0. 84707E-06	0. 84707E-07	10524
0. 46385E-06	0. 23193E-07	0. 49747E-04	0. 39798E-05	10525
0. 26100E-04	0. 13050E-05	0. 26200E-02	0. 23580E-03	10526
0. 33240E-08	0. 19944E-09	0. 25100E-06	0. 52710E-07	10527
0. 44452E-05	0. 57788E-06	0. 79269E-03	0. 11098E-03	10528
0. 62649E-03	0. 31325E-04	0. 56535E-01	0. 28268E-02	10529
0. 70030E-04	0. 42018E-05	0. 66935E-02	0. 10040E-02	10530
0. 22206E-04	0. 17765E-05	0. 14308E-01	0. 71541E-02	10531
0. 47441E-02	0. 23721E-03	0. 54081E+00	0. 27041E-01	10532
0. 49366E-02	0. 24683E-03	0. 53103E+00	0. 26552E-01	10533
0. 64114E-05	0. 12823E-05	0. 84536E-03	0. 24515E-03	10534
0. 37684E-05	0. 22610E-06	0. 67607E-03	0. 74367E-04	10551
0. 51649E-05	0. 12396E-05	0. 13925E-02	0. 27850E-03	10552
0. 18672E-07	0. 93362E-09	0. 32234E-05	0. 32234E-06	10557
0. 81600E-10	0. 19600E-10	0. 28800E-07	0. 12400E-07	10559
0. 34533E-09	0. 75973E-10	0. 73447E-07	0. 20565E-07	10561
0. 16889E-08	0. 20267E-09	0. 29719E-06	0. 47550E-07	10564
0. 90900E-10	0. 29100E-10	0. 23800E-06	0. 38100E-07	10565
0. 61100E-09	0. 12200E-09	0. 46600E-07	0. 19100E-07	10567
0. 35200E-04	0. 28200E-05	0. 49000E-02	0. 83300E-03	10569
0. 88300E-03	0. 44200E-04	0. 89000E-01	0. 97900E-02	10570
0. 30500E-03	0. 15250E-04	0. 36700E-01	0. 18350E-02	10571
0. 94700E-04	0. 85200E-05	0. 72700E-02	0. 36400E-03	10572
0. 79000E-06	0. 18200E-06	0. 30000E-03	0. 69000E-04	10573
0. 20475E-05	0. 38902E-06	0. 13275E-03	0. 42481E-04	10574
0. 53000E-05	0. 53000E-06	0. 10000E-02	0. 21000E-03	10575
0. 64100E-04	0. 32100E-05	0. 37000E-02	0. 77700E-03	10576
0. 34000E-05	0. 40800E-06	0. 58000E-03	0. 12800E-03	10577
0. 31393E-02	0. 15697E-03	0. 25100E+00	0. 52710E-01	10604
0. 82576E-04	0. 41288E-05	0. 39345E-02	0. 59018E-03	10605
0. 38764E-07	0. 46516E-08	0. 12264E-05	0. 66227E-06	10596
0. 40651E-04	0. 48781E-05	0. 49318E-02	0. 93703E-03	10681
0. 10238E-03	0. 51188E-05	0. 60437E-02	0. 10879E-02	10682
0. 15915E-05	0. 35013E-06	0. 12144E-02	0. 24289E-03	10683
0. 41480E-04	0. 20740E-05	0. 42941E-02	0. 47235E-03	10684
0. 92298E-05	0. 11999E-05	0. 16589E-02	0. 29859E-03	10331
0. 18000E-08	0. 25200E-09	0. 23400E-06	0. 42120E-07	10332
0. 28200E-09	0. 84800E-10	0. 13100E-05	0. 39200E-06	10333
0. 32200E-08	0. 42000E-09	0. 74500E-05	0. 12600E-05	10334
0. 19056E-04	0. 17151E-05	0. 94164E-02	0. 47082E-03	10338
0. 40800E-09	0. 73200E-10	0. 52500E-06	0. 36800E-07	10339
0. 26059E-05	0. 41694E-06	0. 93000E-03	0. 18600E-03	10553
0. 18716E-05	0. 24330E-06	0. 52500E-03	0. 10500E-03	10554
0. 14967E-07	0. 40412E-08	0. 51057E-05	0. 14296E-05	10555
0. 61138E-08	0. 48911E-09	0. 72000E-06	0. 15120E-06	10645
0. 41363E-09	0. 86863E-10	0. 70440E-07	0. 35220E-07	10646
0. 44440E-04	0. 22220E-05	0. 46325E-02	0. 50957E-03	10647
0. 66258E-01	0. 33129E-02	0. 67669E+01	0. 33834E+00	10672

0. 25471E-03	0. 12735E-04	0. 28188E-01	0. 14094E-02	10758
0. 10222E-06	0. 91995E-08	0. 12300E-04	0. 28290E-05	10759
0. 30078E-07	0. 51133E-08	0. 38220E-05	0. 11466E-05	10760
0. 24373E-01	0. 12186E-02	0. 22172E+01	0. 11086E+00	10761
0. 22508E-02	0. 11254E-03	0. 12043E+00	0. 60217E-02	10762
0. 10093E-08	0. 34637E-09	0. 84473E-06	0. 33750E-06	10727
0. 61797E-04	0. 37078E-05	0. 53608E-02	0. 58969E-03	10729
0. 62420E-06	0. 31210E-07	0. 48304E-04	0. 67625E-05	10730
0. 24265E-05	0. 12132E-06	0. 19932E-03	0. 19932E-04	10731
0. 21769E-04	0. 13061E-05	0. 16494E-02	0. 31338E-03	10732
0. 69675E-07	0. 97545E-08	0. 30157E-04	0. 75392E-05	10808
0. 67313E-05	0. 17501E-05	0. 73732E-03	0. 38341E-03	10809
0. 41224E-05	0. 53591E-06	0. 68100E-03	0. 14982E-03	10810
0. 10515E-05	0. 29441E-06	0. 39610E-03	0. 15844E-03	10811
0. 18819E-05	0. 58340E-06	0. 48385E-03	0. 19838E-03	10812



## CORRELATION RESULTS

Nuclides Tested for Correlation are 239-PU and 244-CM

Test made on 22-OCT-84

Sorting Criteria are :

PWR

Number of entries in the fit is 446

Zero Offset Value, B0, is 9.81549E-11

Correlation Ratio, B1, is 5.31883E-01

Standard Deviation in B0 is 5.23813E-11

Standard Deviation in B1 is 3.68910E-02

F-TEST Value is 388.741

Confidence Level for this Correlation is: 99. %

## PWR

0. 69000E-02	0. 34500E-03	0. 75100E-02	0. 37550E-03	9928
0. 20400E-01	0. 10200E-02	0. 84500E-02	0. 42250E-03	9929
0. 26000E-07	0. 20000E-08	0. 21000E-07	0. 20000E-08	7269
0. 40400E-09	0. 52000E-10	0. 14000E-09	0. 40000E-10	7267
0. 88000E-08	0. 60000E-09	0. 31000E-08	0. 70000E-09	6956
0. 32000E-07	0. 20000E-08	0. 80000E-07	0. 80000E-08	7268
0. 32000E-07	0. 20000E-08	0. 10000E-07	0. 20000E-08	6955
0. 15000E-07	0. 20000E-08	0. 57000E-08	0. 70000E-09	6724
0. 67000E-06	0. 60000E-07	0. 37000E-07	0. 40000E-08	6725
0. 19000E-07	0. 10000E-08	0. 99000E-08	0. 90000E-09	6728
0. 14000E-06	0. 10000E-07	0. 12000E-06	0. 10000E-07	6729
0. 27000E-08	0. 30000E-09	0. 30000E-08	0. 50000E-09	6730
0. 35000E-07	0. 30000E-08	0. 12000E-07	0. 60000E-08	7140
0. 12000E-06	0. 20000E-07	0. 59000E-07	0. 70000E-08	T089
0. 18000E-08	0. 10000E-09	0. 64000E-10	0. 20000E-10	6855
0. 16000E-06	0. 10000E-07	0. 95000E-08	0. 10000E-08	7164
0. 49000E-06	0. 24500E-07	0. 72000E-07	0. 35000E-07	7131
0. 92000E-08	0. 10000E-08	0. 13000E-08	0. 20000E-09	7130
0. 15000E-08	0. 60000E-09	0. 36000E-09	0. 12000E-09	7050
0. 61000E-07	0. 40000E-08	0. 49000E-07	0. 40000E-08	6843
0. 62000E-08	0. 31000E-09	0. 56000E-08	0. 15000E-08	7049
0. 41000E-08	0. 40000E-09	0. 44000E-09	0. 60000E-10	T098
0. 62000E-08	0. 70000E-09	0. 62000E-09	0. 60000E-10	6842
0. 56400E-07	0. 79000E-08	0. 20000E-07	0. 34000E-08	7655
0. 66200E-08	0. 40000E-09	0. 55200E-08	0. 61000E-09	7897
0. 14000E-07	0. 70000E-09	0. 13900E-07	0. 70000E-09	7924
0. 29400E-07	0. 15000E-08	0. 61500E-08	0. 31000E-09	7896
0. 20700E-07	0. 10350E-08	0. 26500E-07	0. 13250E-08	7916
0. 10900E-06	0. 90000E-08	0. 15300E-07	0. 42000E-08	7440
0. 59300E-06	0. 29650E-07	0. 13900E-06	0. 10000E-07	7567
0. 14600E-08	0. 29000E-09	0. 10200E-07	0. 21000E-08	7562
0. 88300E-07	0. 44150E-08	0. 54900E-07	0. 27450E-08	7888
0. 92200E-08	0. 46100E-09	0. 12000E-08	0. 15000E-09	7433
0. 50000E-09	0. 11000E-09	0. 37000E-09	0. 89000E-10	7654
0. 33300E-08	0. 23000E-09	0. 18400E-08	0. 29000E-09	8025
0. 95200E-08	0. 48000E-08	0. 39900E-08	0. 28000E-09	7895
0. 31800E-07	0. 16000E-08	0. 99900E-08	0. 80000E-09	7917
0. 87900E-08	0. 60000E-09	0. 10300E-07	0. 90000E-09	7385
0. 69600E-07	0. 34800E-08	0. 74000E-07	0. 60000E-08	7386
0. 63200E-08	0. 32000E-09	0. 45200E-08	0. 23000E-09	7432
0. 90400E-08	0. 45000E-09	0. 59800E-08	0. 11800E-08	7648
0. 57900E-07	0. 28950E-08	0. 92800E-08	0. 10200E-08	8026
0. 41000E+00	0. 20500E-01	0. 14300E-01	0. 71500E-03	9034
0. 60000E-06	0. 40000E-07	0. 69000E-07	0. 14000E-07	9652
0. 18000E-05	0. 40000E-06	0. 29000E-04	0. 20000E-05	T500M
0. 35000E-05	0. 11000E-05	0. 48000E-06	0. 10000E-06	8331
0. 16400E-08	0. 82000E-10	0. 80000E-09	0. 11000E-09	9760
0. 22500E-09	0. 17000E-10	0. 17000E-09	0. 50000E-10	9759
0. 33900E-09	0. 24000E-10	0. 13000E-09	0. 30000E-10	9761
0. 66000E-09	0. 33000E-10	0. 15000E-09	0. 60000E-10	9762
0. 68000E-08	0. 33000E-08	0. 19000E-07	0. 90000E-08	8646
0. 26000E-08	0. 13000E-08	0. 66000E-09	0. 33000E-09	8647
0. 74000E-07	0. 37000E-07	0. 72000E-07	0. 36000E-07	8648
0. 12100E-03	0. 60500E-05	0. 83000E-05	0. 41500E-06	8649
0. 31000E-02	0. 20000E-03	0. 21000E-02	0. 10500E-03	8656
0. 48000E-03	0. 24000E-04	0. 55000E-03	0. 40000E-04	9501
0. 45000E-03	0. 22500E-04	0. 31000E-03	0. 60000E-04	9502
0. 82000E-09	0. 41000E-10	0. 15900E-08	0. 80000E-10	9503
0. 57200E-08	0. 30017E-09	0. 52300E-08	0. 30150E-09	9505
0. 71000E-04	0. 40000E-05	0. 51000E-04	0. 30000E-05	9507
0. 25600E-07	0. 13000E-08	0. 35000E-07	0. 20000E-08	9509

0. 34000E-04	0. 20000E-05	0. 14000E-04	0. 90000E-06	9510
0. 98000E-05	0. 21000E-05	0. 12000E-05	0. 40000E-06	8316
0. 16000E-05	0. 20000E-06	0. 32000E-05	0. 60000E-06	9122
0. 94000E-09	0. 80000E-10	0. 30000E-08	0. 20000E-09	9805
0. 70000E-05	0. 35000E-06	0. 42000E-07	0. 60000E-08	9213
0. 40000E-03	0. 30000E-04	0. 49000E-04	0. 15000E-04	6859
0. 13000E-03	0. 20000E-04	0. 22000E-04	0. 40000E-05	T096
0. 27000E-03	0. 40000E-04	0. 32000E-04	0. 50000E-05	T074
0. 72000E-02	0. 40000E-03	0. 76000E-03	0. 40000E-04	8470
0. 37000E-04	0. 18500E-05	0. 92000E-05	0. 90000E-06	8472
0. 11900E-04	0. 13000E-05	0. 32000E-05	0. 50000E-06	8473
0. 93000E-08	0. 50000E-09	0. 17000E-07	0. 10000E-08	9604
0. 12200E-07	0. 61000E-09	0. 76000E-08	0. 40000E-09	9605
0. 29500E-08	0. 17000E-09	0. 18300E-08	0. 15000E-09	9606
0. 43000E-07	0. 21500E-08	0. 80000E-07	0. 40000E-08	9608
0. 28000E-08	0. 14000E-09	0. 74000E-08	0. 40000E-09	9609
0. 26000E-08	0. 13000E-09	0. 15500E-08	0. 80000E-10	9610
0. 41000E-09	0. 60000E-10	0. 55000E-09	0. 60000E-10	9611
0. 53000E-07	0. 30000E-08	0. 45000E-07	0. 22500E-08	9471
0. 49000E-08	0. 30000E-09	0. 93000E-08	0. 50000E-09	9472
0. 12400E-07	0. 62000E-09	0. 68000E-08	0. 40000E-09	9473
0. 29000E-07	0. 20000E-08	0. 38000E-07	0. 20000E-08	9474
0. 51000E-08	0. 30000E-09	0. 15000E-07	0. 10000E-08	9475
0. 11100E-07	0. 55500E-09	0. 17000E-07	0. 10000E-08	9476
0. 10900E-07	0. 60000E-09	0. 32000E-07	0. 20000E-08	9477
0. 13500E-07	0. 70000E-09	0. 21000E-07	0. 10500E-08	9478
0. 20900E-06	0. 10450E-07	0. 35000E-06	0. 20000E-07	9479
0. 60000E-07	0. 30000E-08	0. 75000E-07	0. 40000E-08	9480
0. 28000E-07	0. 14000E-08	0. 29000E-07	0. 20000E-08	9481
0. 18600E-07	0. 93000E-09	0. 21700E-07	0. 11000E-08	9482
0. 17000E-08	0. 20000E-09	0. 28000E-08	0. 20000E-09	9483
0. 10200E-07	0. 51000E-09	0. 26000E-07	0. 20000E-08	9484
0. 46000E-07	0. 23000E-08	0. 92000E-08	0. 19000E-08	9485
0. 22000E-07	0. 11000E-08	0. 51000E-07	0. 30000E-08	9767
0. 37000E-09	0. 80000E-10	0. 20000E-09	0. 12000E-09	9768
0. 16000E-08	0. 40000E-09	0. 90000E-09	0. 40000E-09	9770
0. 16000E-07	0. 10000E-08	0. 13000E-07	0. 80000E-08	9771
0. 34000E-08	0. 30000E-09	0. 23000E-09	0. 12000E-09	9772
0. 17700E-06	0. 90000E-08	0. 61000E-06	0. 30500E-07	9773
0. 92000E-09	0. 10000E-09	0. 11000E-08	0. 20000E-09	9774
0. 12000E-08	0. 20000E-09	0. 46000E-08	0. 20000E-08	9775
0. 18000E-09	0. 60000E-10	0. 14000E-07	0. 60000E-08	9776
0. 22000E-07	0. 20000E-08	0. 25000E-07	0. 12500E-08	9778
0. 12300E-08	0. 80000E-10	0. 36000E-08	0. 20000E-09	9779
0. 14000E-02	0. 70000E-04	0. 13800E-04	0. 17000E-05	9245
0. 55800E-03	0. 89000E-04	0. 26800E-03	0. 89000E-04	6848
0. 40000E-04	0. 10000E-04	0. 27000E-05	0. 50000E-06	6958
0. 10000E-05	0. 20000E-06	0. 36000E-06	0. 12000E-06	T078
0. 38000E-05	0. 15000E-05	0. 14000E-06	0. 80000E-07	6960
0. 49700E-06	0. 79000E-07	0. 43000E-06	0. 90000E-07	7288
0. 10600E-02	0. 22000E-03	0. 36700E-04	0. 48000E-05	7285
0. 15000E-04	0. 50000E-05	0. 13000E-04	0. 40000E-05	6957
0. 15000E-05	0. 40000E-06	0. 24000E-06	0. 12000E-06	6961
0. 22000E-03	0. 40000E-04	0. 41000E-03	0. 80000E-04	6738
0. 23200E-02	0. 15000E-03	0. 14000E-02	0. 20000E-03	7066
0. 92000E-04	0. 15000E-04	0. 31000E-04	0. 50000E-05	T077
0. 13300E-05	0. 24000E-06	0. 34000E-05	0. 15000E-05	7402
0. 22000E-03	0. 20000E-04	0. 12000E-04	0. 20000E-05	7149
0. 30000E-05	0. 15000E-06	0. 26000E-05	0. 40000E-06	T095
0. 22000E-04	0. 30000E-05	0. 43000E-04	0. 10000E-04	T040
0. 78000E-03	0. 40000E-04	0. 21000E-03	0. 10000E-03	7162
0. 52000E-03	0. 20000E-03	0. 61000E-04	0. 30000E-04	7163
0. 48000E-04	0. 91000E-05	0. 94000E-05	0. 86000E-06	7689



0. 79700E-05	0. 56000E-06	0. 46900E-05	0. 28000E-06	8014
0. 72100E-03	0. 36050E-04	0. 19900E-03	0. 20000E-04	7921
0. 97000E-03	0. 89000E-04	0. 27300E-03	0. 33000E-04	7919
0. 68700E-04	0. 49000E-05	0. 79900E-04	0. 93000E-05	7399
0. 34500E-04	0. 18000E-05	0. 53700E-05	0. 27000E-06	7188
0. 24700E-05	0. 16000E-06	0. 13300E-05	0. 80000E-07	8021
0. 13000E-01	0. 65000E-03	0. 43200E-02	0. 22000E-03	7451
0. 56300E-02	0. 28150E-03	0. 31400E-02	0. 25000E-03	7595
0. 74000E-04	0. 44000E-05	0. 24200E-03	0. 12100E-04	7445
0. 49000E-03	0. 24500E-04	0. 60000E-04	0. 90000E-05	10007
0. 91000E-10	0. 15000E-10	0. 90000E-09	0. 10000E-09	10008
0. 43000E-06	0. 21500E-07	0. 25000E-06	0. 12500E-07	10010
0. 70000E-05	0. 10000E-05	0. 40000E-05	0. 10000E-05	10011
0. 23000E-04	0. 20000E-05	0. 28000E-05	0. 18000E-05	7153
0. 42000E-03	0. 40000E-04	0. 22000E-03	0. 30000E-04	6841
0. 16400E-02	0. 82000E-04	0. 80000E-03	0. 60000E-04	7077
0. 10000E-03	0. 20000E-04	0. 22000E-04	0. 40000E-05	T042
0. 63000E-01	0. 70000E-02	0. 41000E-01	0. 50000E-02	T079
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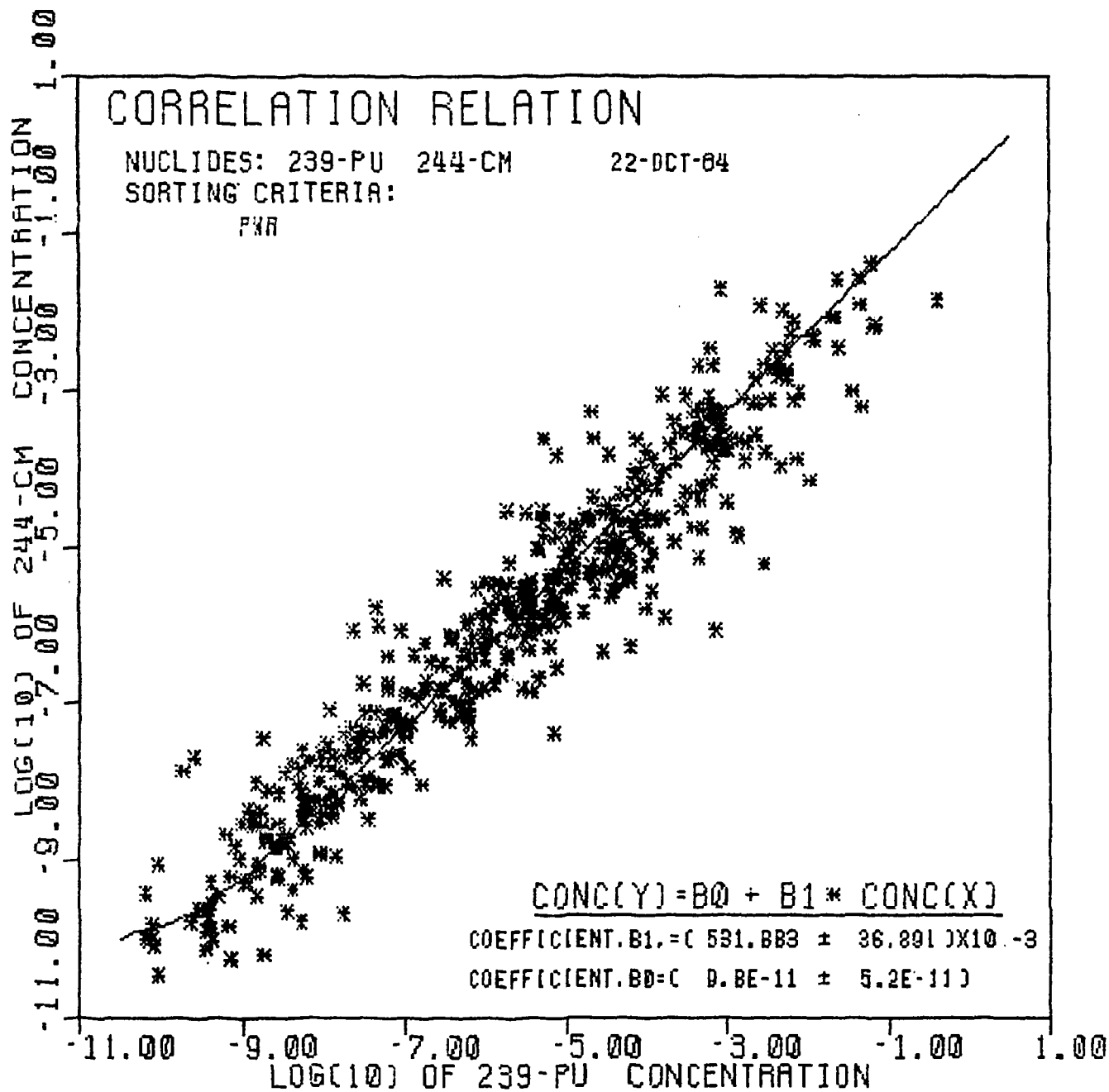
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13. ABSTRACT (200 words or less)  <p>The 10 CFR Part 61 waste classification system includes several nuclides which are difficult to assay without expensive radiochemical methods. In order for waste generators to classify wastes practically, NRC Staff has recommended the use of correlation factors to scale the difficult-to-measure nuclides with nuclides which can be measured more easily (i.e., gamma emitters such as <sup>60</sup>Co or <sup>137</sup>Cs). In this study, Science Applications International Corporation (SAIC) performed complete radiochemical assays for all the 10 CFR Part 61 waste classification nuclides on over 100 samples. These data, along with almost 800 other samples in the SAIC data base, were used to assess the validity of correlation factors suggested for use for nuclear power plant wastes. Specific generic correlation factors are recommended with other approaches to correlate nuclides for which generic scaling factors are not defensible.</p>			
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