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RE-P-79-043

FISSION PRODUCT INVENTORIES IN TESTS IRRADIATED IN PBF

MAY 1979

EG&G Idaho, Inc.

IDAHO NATIONAL ENGINEERING LABORATORY

DEPARTMENT OF ENERGY

IDAHO OPERATIONS OFFICE UNDER CONTRACT EY-76-C-07-1570

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FISSION PRODUCT INVENTORIES IN TESTS IRRADIATED IN PBF

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MAY 1979

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ABSTRACT

Computed fission product inventories for five tests that have been irradiated in the Power Burst Facility (PBF) reactor are required for use in the evaluation of Fission Product Detection System (FPDS) measurements. These inventories have been calculated using the ORIGEN code. The bulk of this report is an extensive listing of these fission product inventories as a function of time. Calculations were made with the input flux spectrum and the cross sections for the fissionable isotopes adjusted to reflect the spectrum in the PBF in-pile tube. Details of these changes are described.

SUMMARY

A Fission Product Detection System (FPDS) has been designed and is being tested in the Power Burst Facility (PBF) reactor for the Thermal Fuels Behavior Program of EG&G. The FPDS detects and analyzes fission products in the test coolant stream. Five tests, irradiated in the PBF reactor with the FPDS in operation, are considered here. These arethe PCM-1, RIA ST-1, RIA ST-2, RIA ST-4 and RIA 1-1 tests. All the tests were irradiated under conditions that led to cladding failure.

The purpose of the present study is to calculate the fission product inventories in the test rods at the time of cladding failure and at subsequent times. Comparison of these inventories with data from the FPDS will permit evaluation of the FPDS and investigation of the mobility of the fission products.

The fission product inventories were calculated using the ORIGEN code. Actual power vs time histories were approximated by power-time histograms. Since the flux spectrum in the PBF in-pile tube shows a very large thermal fraction due to the flux-trap effect, the spectrum parameters and the cross sections for the fissionable isotopes were developed to reflect that spectrum before being input to ORIGEN.

In addition to the fission product inventories the study provided an evaluation of the methods used. Conclusions are: (1) ORIGEN has the capability to handle the short time steps involved here. (2) For the low exposures with fission dominated by a single isotope as it is here (all except pre-irradiated RIA 1-1), the spectrum has very little effect on fission product inventories. This is because the over-riding effect is fission product production which is directly proportional to power. (3) In contrast, the actinide concentrations are spectrum-dependent.

1.0 INTRODUCTION

A Fission Product Detection System (FPDS) has been designed and is being tested[1,2] in the Power Burst Facility (PBF) reactor for the Thermal Fuels Behavior Program of EG&G. The FPDS taps the test loop and carries a continuous stream of coolant past a series of detectors. One of these detectors is part of a gamma spectrometer system that is used to identify fission products and follow their concentrations vs time. The FPDS has been used to collect data for five different tests that have undergone irradiation in PBF leading to cladding failure. The five tests are PCM-1, RIA ST-1, RIA ST-2, RIA ST-4 and RIA 1-1. All these tests were composed of single unirradiated rods except for the RIA 1-1 test, which consisted of two pre-irradiated and two unirradiated rods.

A necessary part of the evaluation of the FPDS is a calculated inventory of the fission products produced in each test. These data, in combination with the gamma spectrometric data and quantitative analysis of the test loop water, can yield information on the relative and absolute fission product release and mobility rates.

The purpose of this study was to provide calculated fission product inventories for each of the five tests listed above. Descriptions of the test pins and test procedures are included in Table I.

2.0 METHODS

The fission product inventories were calculated using the ORIGEN code[3,4]. Actual power histories of the test irradiations were approximated by power vs time histograms that preserved the power-time integrals for the test. For example, the RIA ST-2 test exposure consisted of a single highly peaked burst that deposited 344.6 kW-sec of energy in the test pin. This was represented in the code by a one second exposure at 344.6 kW.

The ORIGEN code uses a 3-group energy structure, with THERM, RES and FAST as input parameters that describe the neutron flux spectrum. When a

power level is input to ORIGEN, these spectrum parameters, together with the concentrations and cross sections for the fissionable materials, are used to calculate the corresponding flux levels.

A three-group light water reactor (LWR) cross section library is available with the ORIGEN code[5]. The exact spectrum to which these cross sections correspond is not known; however, the spectrum within the in-pile tube of the PBF reactor is considerably softer than a typical LWR spectrum due to the flux trap effect. Because of this difference, spectra and ^{235}U, ^{238}U, and ^{10}B cross sections that reflect the actual test conditions in PBF were developed for use in ORIGEN. Details of this updating of the cross section library and spectrum parameters are described in Section 2.1. With these changes the fission product production is calculated with fluxes and cross sections that represent the actual test conditions. In contrast, the transmutation of nuclides other than ^{235}U and ^{238}U by neutron absorption has not been fully corrected since the distribution of flux between groups has been adjusted but the cross sections have not been changed to reflect intragroup spectrum changes. However, this was felt to be a second order effect for the fission product isotopes and low neutron flux exposures considered here. Subsequent calculations have shown this to be generally correct for the fission products. For higher exposures and for materials other than the fission products the inaccuracies will be larger.

An exception to the treatment described above was made for the fission product calculation for the pre-irradiated fuel in the RIA 1-1 test. The available ORIGEN LWR library and spectrum were used for that case. This was done on the basis of the experience with the use of ORIGEN in calculating actinide concentrations after considerable exposure in LWR spectra[6]. This experience shows that an extensive updating of the actinide library must be made along with the flux updating or the resulting actinide concentrations calculated will be in greater error than those calculated by using the ORIGEN supplied library and flux spectrum. Since the pre-irradiated rods were exposed in a fairly typical LWR spectrum in Saxton, using the ORIGEN LWR spectrum and cross sections was a reasonable choice. Subsequently, a

comparison was made between this usage and a more detailed depletion calculation for the same rods[7] during an exposure in Saxton which was 13% larger than the total exposure here. A comparison of the $^{239}Pu/^{235}U$ ratios at that exposure shows a value of 0.031 for the ORIGEN calculation vs 0.035 for the depletion calculation of Reference 7. The difference in these ratios, averaged over the actual exposure, will be appreciably less. This difference affects the fission product inventories only through the different fission product yield curves of the two isotopes; thus the effect of the difference between these two calculations on the fission product inventories is negligible. The buildup of fission products in the preirradiated rods during PBF exposure was also calculated using the LWR spectrum. As explained in Section 4, this introduces a negligible error in the fission product inventory since the short-time exposures are not very spectrum dependent.

Most of the calculations were made with the IBM 360/75 computer. The ORIGEN code has recently been converted to the CDC-7600 machine. One of the problems was run on both machines yielding identical results except for the last significant figure of some numbers differing by one. This is due to differences in machine representation of real numbers. A complete sample ORIGEN deck for the IBM and the control cards for running ORIGEN on the CDC-7600 are included as Appendix A. Input documentation is included as Appendix D.

2.1 Cross Section and Spectrum Development

Cross sections and neutron spectra were developed for actual test conditions. To do this the tests were represented in a radial S_n transport model of the PBF reactor using the 32-group cross section library saved on tape under Historical Number H00125IB. The reactor model is described in Table II. The transport calculations were made using the SCRABL code with the generalized coalescing option[8] which was used to provide microscopic cross sections for ^{235}U, ^{238}U, and a 1/v absorber (^{10}B). The latter is used to calculate the ORIGEN spectrum parameter THERM. To be consistent with the

available ORIGEN library, which appears to be based on a homogenized cell spectrum, an appropriate test fuel cell was defined within the IPT with the correct water to fuel ratio. The microscopic cross sections were then coalesced over the spectrum for the homogenized cell. Additional output from the transport calculation which was used in ORIGEN was the 3-group cell spectrum. The details of modifying this data to the form used by ORIGEN are included as Appendix B. Appendix C describes the ORIGEN input changes, which are not in the ORIGEN manual, which permit insertion of these cross sections into the ORIGEN library. Also included in Appendix C are ORIGEN input changes to control output edits.

3.0 RESULTS

Calculations have been made to determine the fission product inventories for each of the five tests as requested in Reference 2. A listing of these tests and the requested inventory listing times from that document are included as Table I. The requested fission product inventories are included as Tables III through VIII. The fission product inventories for the RIA 1-1 test are divided into two tables, one for the pre-irradiated fuel and one for the fresh fuel.

Most of the calculations were made on the basis of an energy yield of 200 MeV/fission, which is the value assumed by ORIGEN. An exception to this was the PCM-1 test which was recalculated using 180 MeV/fission. RIA 1-1 was also recalculated, using 200 MeV/fission for the irradiation period in Saxton and 180 MeV/fission for the exposure in PBF.

If a calculation were made assuming 200 MeV/fission, and 185 MeV/fission would have been a better choice (since the irradiation period was short and the test rods were isolated), the fission product inventories should be multiplied by 200/185 before using, since the fission rate for a given test power would be correspondingly higher.

4.0 CONCLUSIONS

A number of sensitivity tests of ORIGEN and its use have been made and will be discussed here. These are:

1) For the low exposures with fission dominated by a single isotope as it is here (except for the pre-irradiated case), the spectral shape has very little effect upon fission product inventories. This is because the overriding process is the production of fission products. This depends directly on the power-time integral, i.e., for a given power-time exposure and a single fissioning isotope the amount of a given fission product produced is independent of spectral shape. This was seen by comparing results using the ORIGEN LWR library and spectral shape with those using the considerably different updated spectral shape and library. The differences in fission product inventories are negligible, i.e., even at the fringes of the yield curves they agree to within about 1%, with the values near the yield peaks agreeing to within 0.2% or less. Part of this latter error may be due to the printing of only three significant figures by ORIGEN.

2) In contract to the above, the actinide concentrations are quite dependent on the neutron spectrum since they don't depend directly on the fission rate except for those whose depletion is due to fission. Other transmutation processes are very energy dependent; for example, resonance absorption of neutrons in the (n,γ) transformation and the $(n,2n)$ reaction. The distributions of neutrons between the groups has been adjusted to reflect the large thermal fraction due to the flux trap effect, but most actinide cross sections haven't been changed to reflect the spectrum changes within the groups. Therefore, the accuracy of the calculated actinide concentrations is questionable without additional cross section updating.

3) ORIGEN appears to be able to handle the short time periods used here. This was shown by entering exposures as a single step and as multiple steps. No appreciable differences in the results were noted. The only indication of any problem with short time steps was an error message indicating numerical problems with Pd-109. Changing the time step sizes did not remove the error messages, but comparing the results for different time-step sizes showed that the error does not propagate to other nuclide chains (basically variations occur only in the A=109 nuclides). Fortunately, these isotopes are not of major interest.

On the basis of the above it is felt that the fission product inventories should be quite accurate for the low-exposure tests (all except the pre-irradiated fuel), since the basic dependence is on the ^{235}U fission product yields, which are well-known. The comparison of ORIGEN calculated actinides with those obtained in previous work, as described in Section 2.0, lends confidence to the accuracy of the results obtained for the pre-irradiated RIA 1-1 fuel.

5.0 REFERENCES

1. T. D. Appelhans and P. D. Randolph, Preliminary Report on the Results of the Fission Product Detection System Performance During Test PCM-1, TFBP-TR-274 (June 1978)
2. D. J. Osetek ltr to A. J. Scott, "Request for Information", DJO-3-79
3. M. J. Bell, ORIGEN - The ORNL Isotope Generation and Depletion Code, ORNL-4628 (1973)
4. B. G. Schnitzler, "Availability of ORIGEN - The ORNL Isotope Generation and Depletion Code," BGS-2-78 (October 1978)
5. ORYX-E, ORIGEN Yields and Cross Sections - Nuclear Transmutation and Decay Data from ENDF/B, DLC-38, (1975)
6. B. G. Schnitzler, ORIGEN and CINDER Calculations of Transuranic Buildup in Low Enrichment High Exposure PWR Fuel, RE-P-79-030 (1979)
7. A. J. Scott, Physics Calculations for the RIA 1-1 and RIA 1-3 Tests in PBF, RE-P-77-091 (1977)
8. G. E. Putnam and D. Tomasko, "SCRABL Input Data Description," Attachment to "SCRABL Code Input," Tom-2-78; the module used is saved as H00399IB

TABLE I

TEST DESCRIPTIONS AND REQUESTED FISSION PRODUCT INVENTORIES

	PCM-1	RIA-ST-1 RIA-ST-2	RIA-ST-4	RIA-1-1 Pre-Irr. (MAPI)	Fresh
Pellet OD (mm)	9.30	8.23	9.30	8.59	8.53
Pellet Density	93% TD	94% TD	93% TD	94% TD	94.5% TD
Cladding OD (mm)	10.72	9.70	10.73	9.99	9.93
Cladding Thickness (mm)	0.61	0.64	0.61	0.572	0.533
Enrichment (wt.%)	20	5.8	20	5.70	5.78

(For all cases the fuel stack is 0.914 m long, the cladding is Zr-4, and the fuel material is UO_2. All dimensions are cold.)

TABLE I (cont'd)

TEST	ROD	MASS gm UO_2	ENRICHMENT WT % U^{235}	IRRADIATION	INVENTORY LISTING TIMES
PCM-1	NA	628.9	20 (111 gm U^{235})	PreConditioning Power Calibration PCM	250 sec pre-scram scram 120 sec post scram 1220 sec post scram 17720 sec post scram
RIA-ST-1	800-1	494.6	5.8 (25.2 gm U^{235})	PreConditioning Power Calibration Burst @ 176.7 cal/gm Burst @ 228.7 cal/gm	120 seconds post burst 1000 seconds post burst 2000 seconds post burst 5000 seconds post burst 10000 seconds post burst
RIA-ST-2	800-2	494.7	5.8 (25.2 gm U^{235})	Burst @ 224.7 cal/gm	Same Times as RIA-ST-1
RIA-ST-4	800-4	624.0	20 (110 gm U^{235})	Power Calibration Burst @ 511.7 cal/gm	Same Times as RIA-ST-1
RIA 1-1	801-1	537.4	5.70 (27.0 gm U^{235})	Preirradiation to 4600 MWd/t[1] Power Calibration & PreConditioning Burst @ 223.0 cal/gm	Same Times as RIA-ST-1
	801-2	537.4	5.70 (27.0 gm U^{235})	Preirradiation to 4650 MWd/t[1] Power Calibration & PreCondition Burst @ 223.0 cal/gm	Same Time as RIA-ST-1
	801-3	525.3	5.78 (26.8 gm U^{235})	Power Calibration & PreConditioning Burst @ 230.0 cal/gm	Same Times as RIA-ST-1
	801-5	531.85	5.78	Burst only @ 230 cal/gm	Same Times as RIA-ST-1

[1] Both rods were discharged in May 1972.

TABLE II

SCRABL MODEL OF THE PBF REACTOR AND TEST SPACE WITH
SINGLE CENTRALLY LOCATED TEST PIN

REGION DATA

REGION NUMBER	MATERIAL NUMBER		NUMBER OF INTERVALS	INNER RADIUS	OUTER RADIUS	REGION WIDTH	MESH SPACING
1	16		3	0.	9.30000000E-02	9.30000000E-02	3.10000000E-02
2	16		3	9.30000000E-02	1.86000000E-01	9.30000000E-02	3.10000000E-02
3	16	Test Pin Fuel	3	1.86000000E-01	2.79000000E-01	9.30000000E-02	3.10000000E-02
4	16		3	2.79000000E-01	3.72000000E-01	9.30000000E-02	3.10000000E-02
5	16		3	3.72000000E-01	4.65000000E-01	9.30000000E-02	3.10000000E-02
6	17	Cladding	2	4.65000000E-01	5.35000000E-01	7.00000000E-02	3.50000000E-02
7	12	Water	5	5.35000000E-01	8.15000000E-01	2.80000000E-01	5.60000000E-02
8	14	Shroud-Zirc	3	8.15000000E-01	1.13000000E+00	3.15000000E-01	1.05000000E-01
9	12	Water	15	1.13000000E+00	6.03500000E+00	4.90500000E+00	3.27000000E-01
10	11	Flow-DividerZirc	3	6.03500000E+00	6.35000000E+00	3.15000000E-01	1.05000000E-01
11	13	H2O	5	6.35000000E+00	7.75000000E+00	1.40000000E+00	2.80000000E-01
12	3	Inconel IPT	10	7.75000000E+00	1.00042500E+01	2.25425000E+00	2.25425000E-01
13	2	Void	1	1.00042500E+01	1.04792300E+01	4.74980000E-01	4.74980000E-01
14	4	Al Filler	4	1.04792300E+01	1.36647900E+01	3.18556000E+00	7.96390000E-01
15	5	Homog Side Plate	2	1.36647900E+01	1.46890000E+01	1.02421000E+00	5.12105000E-01
16	1	PBF Fuel	15	1.46890000E+01	1.99032800E+01	5.21428000E+00	3.47618670E-01
17	5	Homog Side Plate	1	1.99032800E+01	2.05912800E+01	6.88000000E-01	6.88000000E-01
18	1	PBF Fuel	6	2.05912800E+01	2.45838700E+01	3.99259000E+00	6.65431670E-01
19	5	Homog Side Plate	1	2.45838700E+01	2.52230400E+01	6.39170000E-01	6.39170000E-01
20	16	Fuel+SS Dummies	4	2.52230400E+01	2.86656050E+01	3.44256500E+00	8.60641250E-01
21	6	T.R. Annulus	2	2.86656050E+01	3.11510900E+01	2.48548500E+00	1.24274250E+00
22	16	Fuel+SS Dummies	5	3.11510900E+01	3.71838300E+01	6.03274000E+00	1.20654800E+00
23	5	Homog Side Plate	1	3.71838300E+01	3.80498500E+01	8.66020000E-01	8.66020000E-01
24	16	Fuel+SS Dummies	5	3.80498500E+01	4.32474500E+01	5.19760000E+00	1.03952000E+00
25	5	Homog. Side Plate	1	4.32474500E+01	4.38574500E+01	6.10000000E-01	6.10000000E-01
26	1	PBF Fuel	4	4.38574500E+01	4.74686500E+01	3.61120000E+00	9.02800000E-01
27	7	C.R. Annulus	3	4.74686500E+01	5.18166800E+01	4.34803000E+00	1.44934333E+00
28	1	PBF Fuel	6	5.18166800E+01	5.69340500E+01	5.11737000E+00	8.52895000E-01
29	5	Homog Side Plate	1	5.69340500E+01	5.76672500E+01	7.53200000E-01	7.53200000E-01
30	1	PBF Fuel	5	5.76672500E+01	6.21173500E+01	4.45010000E+00	8.90020000E-01
31	5	Homog. Side Plate	1	6.21173500E+01	6.28726500E+01	7.55300000E-01	3.77650000E-01
32	1	PBF Fuel	7	6.28726500E+01	6.61086500E+01	3.23600000E+00	4.62288571E-01
33	9	SS Dummies	5	6.61086500E+01	6.85579500E+01	2.44930000E+00	4.89860000E-01
34	8	Al+H2O	10	6.85579500E+01	7.46744500E+01	6.11650000E+00	6.11650000E-01
35	15	Reflector	25	7.46744500E+01	9.46744500E+01	2.00000000E+01	8.00000000E-01

TABLE III

PCM-1 FISSION PRODUCT INVENTORIES

The first column is for 250 sec. before scram. The second column lists the inventory at scram. The following columns are for times post-scram. An energy deposition rate in the test of 180 MeV/fission was assumed.

TABLE III (cont'd)

PCM-1-20PC SPEC-DECAY

POWER= .01MW, BURNUP= 0.MWD, FLUX= 3.45E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = PCM-1 ROD(628.9 GRAMS UO2-;

		250 sec before [illegible]am	ISCHARGE	120.SEC	1220.SEC	17720.SEC
H	3	1.68E-[illegible]	1.71E-15	1.71E-15	1.71E-15	1.71E-15
CO	72	1.40E-04	1.40E-04	0.	0.	0.
CO	73	8.33E-06	8.33E-06	0.	0.	0.
CO	74	2.06E-05	2.06E-05	0.	0.	0.
CO	75	3.5CE-06	3.50E-06	0.	0.	0.
NI	72	4.83E-03	4.83E-03	5.65E-18	0.	0.
NI	73	2.36E-03	2.36E-03	0.	0.	0.
NI	74	6.58E-03	6.58E-03	0.	0.	0.
NI	75	3.53E-03	3.53E-03	0.	0.	0.
NI	76	1.19E-03	1.19E-03	0.	0.	0.
NI	77	1.58E-04	1.58E-04	0.	0.	0.
NI	78	2.17E-05	2.17E-05	0.	0.	0.
CU	72	1.07E-02	1.07E-02	1.33E-08	0.	0.
CU	73	2.19E-02	2.19E-02	1.57E-11	0.	0.
CU	74	6.72E-02	6.72E-02	0.	0.	0.
CU	75	9.81E-02	9.81E-02	0.	0.	0.
CU	76	1.00E-01	1.00E-01	0.	0.	0.
CU	77	4.12E-02	4.12E-02	0.	0.	0.
CU	78	1.85E-02	1.85E-02	0.	0.	0.
CU	79	2.24E-03	2.24E-03	0.	0.	0.
CU	80	3.28E-04	3.28E-04	0.	0.	0.
CU	81	1.78E-05	1.78E-05	0.	0.	0.
ZN	72	8.25E-04	8.37E-04	8.37E-04	8.33E-04	7.78E-04
ZN	73	4.90E-02	4.90E-02	1.55E-03	1.26E-17	0.
ZN	74	1.58E-01	1.60E-01	6.87E-02	2.87E-05	0.
ZN	75	4.74E-01	4.74E-01	4.68E-05	0.	0.
ZN	76	1.20E+00	1.20E+00	2.46E-07	0.	0.
ZN	77	1.32E+00	1.32E+00	0.	0.	0.
ZN	78	1.77E+00	1.77E+00	2.38E-15	0.	0.
ZN	79	7.11E-01	7.11E-01	0.	0.	0.
ZN	80	3.46E-01	3.46E-01	0.	0.	0.
ZN	81	6.14E-02	6.14E-02	0.	0.	0.
ZN	82	6.24E-03	6.24E-03	0.	0.	0.
ZN	83	4.86E-04	4.86E-04	0.	0.	0.
GA	72	4.83E-04	4.84E-04	4.85E-04	4.90E-04	5.53E-04
GA	73	7.38E-03	7.80E-03	7.83E-03	7.50E-03	3.91E-03
GA	74	1.19E-01	1.33E-01	1.29E-01	3.10E-02	2.48E-12
GA	75	5.12E-01	5.19E-01	2.70E-01	3.37E-04	0.
GA	76	1.68E+00	1.64E+00	9.01E-02	5.44E-14	0.
GA	77	3.46E+00	3.46E+00	6.02E-03	0.	0.
GA	78	7.73E+00	7.73E+00	4.02E-07	0.	0.
GA	79	7.25E+00	7.25E+00	1.72E-12	0.	0.
GA	80	1.01E+01	1.01E+01	5.85E-21	0.	0.
GA	81	5.43E+00	5.43E+00	0.	0.	0.
GA	82	1.81E+00	1.81E+00	0.	0.	0.
GA	83	4.51E-01	4.51E-01	0.	0.	0.
GA	84	2.25E-02	2.25E-02	0.	0.	0.
GA	85	0.	0.	0.	0.	0.
GE	72	0.	0.	0.	0.	0.
GE	73	0.	0.	0.	0.	0.
GE	73M	7.38E-03	7.80E-03	7.83E-03	7.50E-03	3.91E-03
GE	74	0.	0.	0.	0.	0.

TABLE III (cont'd)

PCM-1-20PC SPEC-DECAY

POWER= .01MW, BURNUP= 0.MWD, FLUX= 3.45E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = PCM-1 ROD(628.9 GRAMS UO2-2

		250 sec before scram	DISCHARGE	120.SEC	1220.SEC	17720.SEC
GE	75	1.13E-01	1.28E-01	1.32E-01	1.19E-01	1.19E-02
GE	75M	2.1CE-02	2.17E-02	1.57E-02	2.36E-05	0.
GE	76	0.	0.	0.	0.	0.
GE	77	2.CCE-01	2.05E-01	2.06E-01	2.02E-01	1.53E-01
GE	77M	3.07E+00	3.C4E+00	8.71E-01	6.96E-07	0.
GE	78	1.74E+00	1.94E+00	1.92E+00	1.66E+00	1.85E-01
GE	79	1.91E+01	1.91E+01	2.84E+00	5.65E-08	0.
GE	80	5.13E+01	5.14E+01	1.63E+00	2.60E-14	0.
GE	81	6.75E+01	6.75E+01	1.80E-02	0.	0.
GE	82	6.40E+01	6.40E+01	6.98E-07	0.	0.
GE	83	4.67E+01	4.67E+01	4.54E-18	0.	0.
GE	84	7.8CE+00	7.80E+00	0.	0.	0.
GE	85	3.CCE+00	3.00E+00	0.	0.	0.
GE	86	5.5CE-01	5.50E-01	0.	0.	0.
GE	87	9.52E-02	9.52E-02	0.	0.	0.
GE	88	9.64E-04	9.64E-04	0.	0.	0.
AS	75	0.	0.	0.	0.	0.
AS	76	6.58E-06	6.68E-06	6.68E-06	6.63E-06	5.87E-06
AS	77	2.76E-01	2.79E-01	2.80E-01	2.79E-01	2.71E-01
AS	78	4.88E-01	5.33E-01	5.54E-01	7.14E-01	4.95E-01
AS	78M	0.	0.	0.	0.	0.
AS	79	1.79E+01	1.96E+01	1.80E+01	4.45E+00	2.82E-09
AS	80	5.83E+01	5.85E+01	4.51E+00	8.32E-14	0.
AS	81	9.57E+01	9.19E+01	9.15E+00	4.11E-10	0.
AS	82	1.C3E+02	1.03E+02	1.55E+00	5.80E-18	0.
AS	82M	3.93E+01	3.93E+01	7.55E-02	0.	0.
AS	83	2.C1E+02	2.C1E+02	4.41E-01	0.	0.
AS	84	1.46E+02	1.46E+02	8.75E-05	0.	0.
AS	85	9.77E+01	9.77E+01	1.57E-16	0.	0.
AS	86	5.51E+01	5.51E+01	0.	0.	0.
AS	87	3.36E+01	3.36E+01	0.	0.	0.
AS	88	1.19E+00	1.19E+00	0.	0.	0.
AS	89	9.54E-02	9.54E-02	0.	0.	0.
AS	90	0.	0.	0.	0.	0.
SE	76	0.	0.	0.	0.	0.
SE	77	0.	0.	0.	0.	0.
SE	77M	8.28E-04	8.37E-04	8.38E-04	8.38E-04	8.14E-04
SE	78	0.	0.	0.	0.	0.
SE	79	1.74E-07	1.75E-07	1.76E-07	1.80E-07	1.82E-07
SE	79M	1.51E+01	1.71E+01	1.77E+01	7.29E+00	4.97E-09
SE	80	0.	0.	0.	0.	0.
SE	81	5.62E+01	6.25E+01	6.12E+01	3.15E+01	5.07E-02
SE	81M	1.08E+00	1.20E+00	1.17E+00	9.36E-01	3.36E-02
SE	82	0.	0.	0.	0.	0.
SE	83	5.02E+01	5.54E+01	5.28E+01	3.00E+01	6.28E-03
SE	83M	1.51E+02	1.51E+02	5.57E+01	1.04E-03	0.
SE	84	4.20E+02	4.39E+02	2.91E+02	6.19E+00	0.
SE	85	3.16E+02	3.16E+02	3.61E+01	1.23E-07	0.
SE	85M	2.19E+02	2.19E+02	2.76E+00	1.03E-17	0.
SE	86	6.23E+02	6.23E+02	4.18E+00	4.71E-20	0.
SE	87	4.82E+02	4.82E+02	1.72E-04	0.	0.
SE	88	1.63E+02	1.63E+02	0.	0.	0.

TABLE III (cont'd)

PCM-1-20PC SPEC-DECAY

POWER= .01MW, BURNUP= 0.MWD, FLUX= 3.45E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = PCM-1 ROD(628.9 GRAMS UO2-

		250 sec before scram	DISCHARGE	120.SEC	1220.SEC	17720.SEC
SE	89	4.26E+01	4.26E+01	0.	0.	0.
SE	90	1.62E+01	1.62E+01	0.	0.	0.
SE	91	1.66E+00	1.66E+00	0.	0.	0.
SE	92	2.35E-02	2.35E-02	0.	0.	0.
SE	93	0.	0.	0.	0.	0.
BR	79	0.	0.	0.	0.	0.
BR	79M	6.86E-07	6.86E-07	2.53E-14	0.	0.
BR	80	1.38E-04	1.51E-04	1.41E-04	7.97E-05	1.14E-05
BR	80M	2.18E-05	2.31E-05	2.30E-05	2.19E-05	1.07E-05
BR	81	0.	0.	0.	0.	0.
BR	82	4.91E-03	4.97E-03	4.99E-03	5.02E-03	4.60E-03
BR	82M	2.85E-02	3.07E-02	2.44E-02	3.04E-03	8.17E-17
BR	83	3.35E+01	3.71E+01	3.82E+01	3.68E+01	1.18E+01
BR	84	1.79E+02	2.02E+02	2.09E+02	1.62E+02	4.05E-01
BR	84M	7.69E+00	8.27E+00	6.56E+00	7.89E-01	1.26E-14
BR	85	5.72E+02	5.96E+02	4.31E+02	5.28E+00	0.
BR	86	4.31E+02	4.28E+02	1.23E+02	1.18E-04	0.
BR	86M	4.57E+02	4.57E+02	2.86E+00	3.23E-20	0.
BR	87	1.04E+03	1.04E+03	2.46E+02	2.66E-04	0.
BR	88	1.20E+03	1.20E+03	6.53E+00	9.74E-21	0.
BR	89	9.31E+02	9.31E+02	8.78E-06	0.	0.
KR	90	6.42E+02	6.42E+02	0.	0.	0.
KR	91	2.03E+02	2.03E+02	0.	0.	0.
KR	92	8.90E+00	8.90E+00	0.	0.	0.
KR	93	2.47E+00	2.47E+00	0.	0.	0.
KR	94	1.56E-01	1.56E-01	0.	0.	0.
KR	95	3.16E-03	3.16E-03	0.	0.	0.
KR	96	1.73E-04	1.73E-04	0.	0.	0.
KR	80	0.	0.	0.	0.	0.
KR	81	1.94E-15	1.96E-15	1.97E-15	1.97E-15	1.97E-15
KR	81M	4.39E-07	4.39E-07	8.44E-10	0.	0.
KR	82	0.	0.	0.	0.	0.
KR	83	0.	0.	0.	0.	0.
KR	83M	1.95E+01	1.99E+01	2.02E+01	2.22E+01	2.08E+01
KR	84	0.	0.	0.	0.	0.
KR	85	5.02E-03	5.03E-03	5.03E-03	5.08E-03	5.56E-03
KR	85M	8.56E+01	9.12E+01	9.34E+01	9.36E+01	4.61E+01
KR	86	0.	0.	0.	0.	0.
KR	87	2.89E+02	3.23E+02	3.28E+02	2.80E+02	2.28E+01
KR	88	2.62E+02	2.87E+02	2.87E+02	2.66E+02	8.55E+01
KR	89	2.08E+03	2.17E+03	1.41E+03	2.53E+01	0.
KR	90	2.27E+03	2.26E+03	1.75E+02	9.77E-09	0.
KR	91	1.66E+03	1.68E+03	1.20E-01	0.	0.
KR	92	7.42E+02	7.42E+02	1.73E-17	0.	0.
KR	93	2.58E+02	2.58E+02	0.	0.	0.
KR	94	1.13E+02	1.13E+02	0.	0.	0.
KR	95	4.02E+00	4.02E+00	0.	0.	0.
KR	96	7.78E-01	7.78E-01	0.	0.	0.
KR	97	1.36E-02	1.36E-02	0.	0.	0.
KR	98	2.32E-03	2.32E-03	0.	0.	0.
RB	85	0.	0.	0.	0.	0.
RB	86	3.27E-04	3.31E-04	3.32E-04	3.32E-04	3.30E-04

PCM-1-20PC SPEC-DECAY

POWER= .01MW, BURNUP= 0.MWD, FLUX= 3.45E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = PCM-1 RUD(628.9 GRAMS UO2-2

		250 sec before scram	DISCHARGE	120.SEC	1220.SEC	17720.SEC
RB	86M	2.70E-02	2.71E-02	6.93E-03	2.63E-08	0.
RB	87	1.14E-11	1.15E-11	1.15E-11	1.17E-11	1.24E-11
RB	88	1.82E+02	1.98E+02	2.05E+02	2.41E+02	9.55E+01
RB	89	1.28E+03	1.44E+03	1.47E+03	7.91E+02	2.85E-03
RB	90	2.04E+03	2.19E+03	1.57E+03	1.69E+01	1.33E-19
RB	90M	4.93E+02	5.30E+02	4.18E+02	2.17E+01	9.85E-19
RB	91	2.69E+03	2.68E+03	7.14E+02	1.46E-03	0.
RB	92	2.31E+03	2.31E+03	2.99E-05	0.	0.
RB	93	1.72E+03	1.72E+03	1.06E-03	0.	0.
RB	94	8.26E+02	8.26E+02	2.92E-10	0.	0.
RB	95	4.34E+02	4.34E+02	0.	0.	0.
RB	96	9.29E+01	9.29E+01	0.	0.	0.
RB	97	1.65E+01	1.65E+01	0.	0.	0.
RB	98	2.54E+00	2.54E+00	0.	0.	0.
RB	99	2.07E-01	2.07E-01	0.	0.	0.
RB	100	9.18E-03	9.18E-03	0.	0.	0.
RB	101	0.	0.	0.	0.	0.
SR	86	0.	0.	0.	0.	0.
SR	87	0.	0.	0.	0.	0.
SR	87M	7.41E-05	8.10E-05	8.03E-05	7.45E-05	2.41E-05
SR	88	0.	0.	0.	0.	0.
SR	89	7.33E+00	7.38E+00	7.41E+00	7.61E+00	7.75E+00
SR	90	4.74E-02	4.79E-02	4.81E-02	4.85E-02	4.85E-02
SR	91	4.15E+02	4.27E+02	4.30E+02	4.22E+02	3.02E+02
SR	92	4.42E+02	4.84E+02	4.81E+02	4.45E+02	1.38E+02
SR	93	2.36E+03	2.56E+03	2.15E+03	3.95E+02	3.62E-09
SR	94	2.87E+03	2.68E+03	9.70E+02	4.04E-02	0.
SR	95	2.62E+03	2.62E+03	1.07E+02	1.97E-11	0.
SR	96	1.80E+03	1.80E+03	1.69E-06	0.	0.
SR	97	9.17E+02	9.17E+02	0.	0.	0.
SR	98	3.34E+02	3.34E+02	0.	0.	0.
SR	99	7.46E+01	7.46E+01	0.	0.	0.
SR	100	1.14E+01	1.14E+01	0.	0.	0.
SR	101	1.45E+00	1.45E+00	0.	0.	0.
SR	102	1.01E-01	1.01E-01	0.	0.	0.
SR	103	2.59E-03	2.59E-03	0.	0.	0.
SR	104	5.04E-05	5.04E-05	0.	0.	0.
Y	89	0.	0.	0.	0.	0.
Y	89M	1.39E-04	1.39E-04	6.96E-07	5.64E-28	0.
Y	90	1.42E-02	1.43E-02	1.44E-02	1.45E-02	1.61E-02
Y	90M	9.10E-04	9.69E-04	9.81E-04	9.17E-04	3.29E-04
Y	91	5.43E+00	5.44E+00	5.45E+00	5.50E+00	6.32E+00
Y	91M	2.12E+02	2.13E+02	2.14E+02	2.21E+02	1.89E+02
Y	92	3.44E+02	3.46E+02	3.47E+02	3.54E+02	2.86E+02
Y	93	4.21E+02	4.31E+02	4.35E+02	4.48E+02	3.31E+02
Y	93M	0.	0.	0.	0.	0.
Y	94	1.70E+03	1.69E+03	1.88E+03	9.99E+02	4.39E-02
Y	95	2.18E+03	2.39E+03	2.19E+03	6.55E+02	8.55E-06
Y	96	2.77E+03	2.84E+03	1.58E+03	6.30E+00	0.
Y	97	2.42E+03	2.42E+03	0.	0.	0.
Y	98	1.72E+03	1.72E+03	0.	0.	0.
Y	99	9.65E+02	9.65E+02	0.	0.	0.

TABLE III (cont'd)

PCM-1-20PC SPEC-DECAY

POWER= .01MW, BURNUP= 0.MWD, FLUX= 3.45E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = PCM-1 ROD(628.9 GRAMS UO2-

	250 sec before scram	DISCHARGE	120.SEC	1220.SEC	17720.SEC
Y100	4.18E+02	4.18E+02	0.	0.	0.
Y101	1.29E+02	1.29E+02	0.	0.	0.
Y102	2.62E+01	2.62E+01	0.	0.	0.
Y103	2.67E+00	2.67E+00	0.	0.	0.
Y104	1.32E-01	1.32E-01	0.	0.	0.
Y105	4.13E-03	4.13E-03	0.	0.	0.
Y106	0.	0.	0.	0.	0.
Y107	1.64E-05	1.64E-05	0.	0.	0.
ZR 90	0.	0.	0.	0.	0.
ZR 90M	4.13E-06	4.45E-06	3.93E-06	3.67E- 6	1.32E-06
ZR 91	0.	0.	0.	0.	0.
ZR 92	0.	0.	0.	0.	0.
ZR 93	9.78E-07	9.81E-07	9.82E-07	9.93E-07	1.14E-06
ZR 94	0.	0.	0.	0.	0.
ZR 95	7.90E+00	7.98E+00	8.01E+00	8.18E+00	8.24E+00
ZR 96	0.	0.	0.	0.	0.
ZR 97	3.63E+02	3.70E+02	3.69E+02	3.65E+02	3.02E+02
ZR 98	2.72E+03	2.72E+03	1.88E+02	3.91E-09	0.
ZR 99	2.79E+03	2.79E+03	2.93E-12	0.	0.
ZR100	2.55E+03	2.55E+03	2.12E-02	0.	0.
ZR101	1.65E+03	1.62E+03	1.92E-08	0.	0.
ZR102	8.52E+02	8.52E+02	4.66E+01	1.25E-10	0.
ZR103	2.57E+02	2.57E+02	1.00E-18	0.	0.
ZR104	3.92E+01	3.92E+01	1.11E-08	0.	0.
ZR105	3.17E+00	3.17E+00	0.	0.	0.
ZR106	1.11E+00	1.11E+00	0.	0.	0.
ZR107	4.93E-02	4.93E-02	0.	0.	0.
ZR108	1.03E-03	1.03E-03	0.	0.	0.
ZR109	3.59E-05	3.59E-05	0.	0.	0.
NB 93	0.	0.	0.	0.	0.
NB 93M	2.68E-10	2.71E-10	2.71E-10	2.73E-10	3.04E-10
NB 94	1.02E-11	1.03E-11	1.04E-11	1.05E-11	1.05E-11
NB 94M	1.8CE-04	1.94E-04	1.56E-04	2.04E-05	1.22E-18
NB 95	1.17E-01	1.18E-01	1.18E-01	1.20E-01	1.50E-01
NB 95M	1.57E-02	1.58E-02	1.58E-02	1.60E-02	1.90E-02
NB 96	3.12E-02	3.17E-02	3.16E-02	3.14E-02	2.74E-02
NB 97	3.36E+02	3.37E+02	3.38E+02	3.42E+02	3.21E+02
NB 97M	3.13E+02	3.19E+02	3.19E+02	3.15E+02	2.61E+02
NB 98	2.28E+01	2.28E+01	2.86E-12	0.	0.
NB 98M	8.84E+02	9.86E+02	9.85E+02	7.70E+02	1.83E+01
NB 99	2.85E+03	2.85E+03	9.21E+00	0.	0.
NB 99M	7.01E+01	7.20E+01	4.14E+01	2.56E-01	0.
NB100	1.5CE+03	1.50E+03	1.60E-02	0.	0.
NB100M	1.50E+03	1.50E+03	1.61E-02	0.	0.
NB101	2.36E+03	2.36E+03	2.07E-02	0.	0.
NB102	1.82E+03	1.82E+03	5.20E+01	1.40E-10	0.
NB103	1.06E+03	1.06E+03	5.42E+00	4.00E-21	0.
NB104	3.86E+02	3.86E+02	1.51E-08	0.	0.
NB105	8.99E+01	8.99E+01	7.80E-19	0.	0.
NB106	3.28E+01	3.28E+01	0.	0.	0.
NB107	4.41E+00	4.41E+00	0.	0.	0.
NB108	3.0CE-01	3.00E-01	0.	0.	0.

TABLE III (cont'd)

PCM-1-20PC SPEC-DECAY

POWER= .01MW, BURNUP= 0.MWD, FLUX= 3.45E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = PCM-1 ROD(628.9 GRAMS UO2-2

	250 sec before scram	DISCHARGE	120.SEC	1220.SEC	17720.SEC
NB109	1.44E-02	1.44E-02	0.	0.	0.
NB110	6.17E-04	6.17E-04	0.	0.	0.
NB111	3.36E-05	3.36E-05	0.	0.	0.
NB112	0.	0.	0.	0.	0.
MO 95	0.	0.	0.	0.	0.
MO 96	0.	0.	0.	0.	0.
MO 97	0.	0.	0.	0.	0.
MO 98	0.	0.	0.	0.	0.
MO 99	1.54E+02	1.56E+02	1.56E+02	1.56E+02	1.49E+02
MO100	0.	0.	0.	0.	0.
MO101	1.56E+03	1.71E+03	1.58E+03	6.62E+02	1.42E-03
MO102	1.41E+03	1.55E+03	1.41E+03	4.49E+02	1.57E-05
MO103	1.43E+03	1.42E+03	4.50E+02	1.37E-03	0.
MO104	8.35E+02	8.47E+02	3.59E+02	1.27E-01	0.
MO105	4.39E+02	4.40E+02	9.49E+01	7.00E-05	0.
MO106	1.67E+02	1.67E+02	1.64E-02	0.	0.
MO107	5.50E+01	5.50E+01	1.24E-04	0.	0.
MO108	1.22E+01	1.22E+01	0.	0.	0.
MO109	1.27E+00	1.27E+00	0.	0.	0.
MO110	2.13E-01	2.13E-01	1.72E-20	0.	0.
MO111	1.77E-02	1.77E-02	0.	0.	0.
MO112	1.28E-03	1.28E-03	0.	0.	0.
MO113	1.46E-04	1.46E-04	0.	0.	0.
MO114	6.91E-06	6.91E-06	0.	0.	0.
MO115	2.98E-07	2.98E-07	0.	0.	0.
TC 99	7.52E-07	7.56E-07	7.57E-07	7.72E-07	1.00E-06
TC 99M	1.09E+02	1.09E+02	1.09E+02	1.10E+02	1.19E+02
TC100	1.38E-02	1.39E-02	7.66E-05	1.54E-25	0.
TC101	1.01E+03	1.13E+03	1.18E+03	1.07E+03	1.75E-02
TC102	1.42E+03	1.56E+03	1.42E+03	4.53E+02	1.58E-05
TC102M	5.22E-01	5.63E-01	4.08E-01	2.12E-02	1.19E-21
TC103	1.44E+03	1.47E+03	9.03E+02	7.78E-03	0.
TC104	4.88E+02	5.45E+02	5.47E+02	2.87E+02	7.23E-03
TC105	3.69E+02	4.06E+02	3.77E+02	7.94E+01	3.56E-09
TC106	1.83E+02	1.81E+02	2.49E+01	2.80E-08	0.
TC107	7.79E+01	7.57E+01	5.20E+00	1.99E-11	0.
TC108	3.00E+01	3.00E+01	3.95E-06	0.	0.
TC109	7.88E+00	7.89E+00	1.50E+00	3.58E-07	0.
TC110	3.14E+00	3.14E+00	3.07E-20	0.	0.
TC111	8.90E-01	8.90E-01	0.	0.	0.
TC112	1.57E-01	1.57E-01	0.	0.	0.
TC113	4.22E-02	4.22E-02	0.	0.	0.
TC114	5.10E-03	5.10E-03	0.	0.	0.
TC115	5.16E-04	5.16E-04	0.	0.	0.
TC116	3.03E-05	3.03E-05	0.	0.	0.
TC117	4.02E-06	4.02E-06	0.	0.	0.
TC118	0.	0.	0.	0.	0.
RU 99	0.	0.	0.	0.	0.
RU100	0.	0.	0.	0.	0.
RU101	0.	0.	0.	0.	0.
RU102	0.	0.	0.	0.	0.
RU103	6.49E+00	6.57E+00	6.60E+00	6.62E+00	6.60E+00

TABLE III (cont'd)

PCM-1-20PC SPEC-DECAY

POWER= .01MW, BURNUP= 0.MWD, FLUX= 3.45E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = PCM-1 ROD(62E.9 GRAMS UO2-2

	2.0 sec before scram	DISCHARGE	120.SEC	1220.SEC	17720.SEC
RU104	0.	0.	0.	0.	0.
RU105	6.15E+01	6.50E+01	6.67E+01	7.26E+01	3.67E+01
RU106	8.95E-02	9.09E-02	9.08E-02	9.08E-02	9.08E-02
RU107	6.74E+01	7.36E+01	6.08E+01	2.98E+00	5.81E-20
RU108	3.05E+01	3.25E+01	2.43E+01	1.44E+00	5.78E-19
RU109	1.45E+01	1.44E+01	3.89E+00	1.19E-06	0.
RU110	1.02E+01	1.02E+01	5.72E-02	1.15E-22	0.
RU111	7.34E+00	7.34E+00	3.37E-02	1.13E-23	0.
RU112	3.17E+00	3.17E+00	0.	0.	0.
RU113	1.73E+00	1.73E+00	1.52E-13	0.	0.
RU114	6.27E-01	6.27E-01	4.45E-08	0.	0.
RU115	1.42E-01	1.42E-01	0.	0.	0.
RU116	2.50E-02	2.50E-02	0.	0.	0.
RU117	1.49E-02	1.49E-02	0.	0.	0.
RU118	3.76E-03	3.76E-03	0.	0.	0.
RU119	0.	0.	0.	0.	0.
RU120	1.56E-06	1.56E-06	0.	0.	0.
RH103	0.	0.	0.	0.	0.
RH103M	6.08E+00	6.10E+00	6.12E+00	6.22E+00	6.59E+00
RH104	1.16E-03	1.17E-03	2.28E-04	4.38E-06	4.08E-25
RH104M	8.85E-05	9.40E-05	6.84E-05	3.68E-06	3.43E-25
RH105	3.70E+01	3.70E+01	3.71E+01	3.73E+01	3.86E+01
RH105M	1.57E+01	1.66E+01	1.70E+01	1.86E+01	9.49E+00
RH106	1.96E+00	1.96E+00	2.07E-01	9.08E-02	9.08E-02
RH106M	1.39E-01	1.54E-01	1.52E-01	1.38E-01	3.22E-02
RH107	3.60E+01	4.04E+01	4.22E+01	3.10E+01	4.86E-03
RH108	3.12E+01	3.35E+01	2.59E+01	1.54E+00	6.17E-19
RH108M	1.66E-02	1.78E-02	1.41E-02	1.64E-03	1.52E-17
RH109	1.46E+01	1.46E+01	1.15E+01	5.43E-03	0.
RH109M	6.88E+00	7.32E+00	4.19E+00	9.78E-06	0.
RH110	1.05E+01	9.59E+00	1.20E+00	4.84E-12	0.
RH110M	3.33E-01	3.33E-01	3.03E-13	0.	0.
RH111	8.97E+00	8.93E+00	3.02E+00	1.68E-05	0.
RH112	5.79E+00	5.79E+00	1.31E-07	0.	0.
RH113	4.91E+00	4.91E+00	2.25E-13	0.	0.
RH114	3.30E+00	3.30E+00	6.70E-08	0.	0.
RH115	1.70E+00	1.70E+00	1.73E-06	0.	0.
RH116	7.77E-01	7.77E-01	0.	0.	0.
RH117	1.82E+00	1.82E+00	0.	0.	0.
RH118	7.71E-02	7.71E-02	0.	0.	0.
RH119	1.23E-02	1.23E-02	0.	0.	0.
RH120	1.74E-03	1.74E-03	0.	0.	0.
RH121	2.28E-04	2.28E-04	0.	0.	0.
RH122	2.84E-05	2.84E-05	0.	0.	0.
RH123	3.05E-06	3.05E-06	0.	0.	0.
PD104	0.	0.	0.	0.	0.
PD105	0.	0.	0.	0.	0.
PD106	0.	0.	0.	0.	0.
PD107	5.55E-09	5.55E-09	5.60E-09	5.74E-09	5.94E-09
PD107M	6.79E-07	6.85E-07	1.38E-08	3.92E-24	0.
PD108	0.	0.	0.	0.	0.
PD109	1.96E+00	2.01E+00	2.02E+00	2.07E+00	1.64E+00

TABLE III (cont'd)

PCM-1-20PC SPEC-DECAY

POWER= .01MW, BURNUP= 0.MWD, FLUX= 3.45E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = PCM-1 ROD(628.9 GRAMS UO2-2

	250 sec before scram	DISCHARGE	120.SEC	1220.SEC	17720.SEC
PD109M	6.37E+00	6.79E+00	6.76E+00	7.49E-01	1.68E-18
PD110	0.	0.	0.	0.	0.
PD111	4.93E+00	5.51E+00	5.53E+00	3.19E+00	5.75E-03
PD111M	1.25E-02	1.31E-02	1.32E-02	1.27E-02	7.13E-03
PD112	7.20E-01	7.33E-01	7.32E-01	7.25E-01	6.19E-01
PD113	5.86E+00	5.90E+00	2.38E+00	4.99E-04	0.
PD114	5.15E+00	5.29E+00	3.00E+00	1.51E-02	0.
PD115	4.58E+00	4.57E+00	5.48E-01	1.06E-09	0.
PD116	4.38E+00	4.38E+00	1.16E-02	0.	0.
PD117	4.95E+00	4.95E+00	3.25E-07	0.	0.
PD118	1.76E+00	1.76E+00	3.94E-12	0.	0.
PD119	1.01E+00	1.01E+00	8.03E-22	0.	0.
PD120	3.46E-01	3.46E-01	1.21E-09	0.	0.
PD121	1.02E-01	1.02E-01	0.	0.	0.
PD122	2.71E-02	2.71E-02	0.	0.	0.
PD123	6.26E-03	6.26E-03	0.	0.	0.
PD124	1.32E-03	1.32E-03	0.	0.	0.
PD125	0.	0.	0.	0.	0.
PD126	2.15E-05	2.15E-05	0.	0.	0.
AG107	0.	0.	0.	0.	0.
AG108	2.30E-11	2.36E-11	1.33E-11	7.27E-14	1.95E-18
AG108M	2.43E-17	2.53E-17	2.53E-17	2.53E-17	2.53E-17
AG109	0.	0.	0.	0.	0.
AG109M	1.95E+00	2.00E+00	2.02E+00	2.07E+00	1.64E+00
AG110	1.03E-07	1.07E-07	1.07E-07	1.07E-07	1.07E-07
AG110M	2.01E-05	2.02E-05	6.86E-07	2.37E-20	0.
AG111	1.97E-01	1.98E-01	1.99E-01	2.04E-01	2.07E-01
AG111M	4.68E+00	5.27E+00	5.44E+00	3.33E+00	7.55E-03
AG112	6.84E-01	6.85E-01	6.85E-01	6.88E-01	6.71E-01
AG113	7.72E-01	8.12E-01	8.25E-01	8.02E-01	4.41E-01
AG113M	5.82E-01	5.95E-01	4.24E-01	1.82E-04	0.
AG114	5.23E+00	5.39E+00	3.10E+00	1.56E-02	0.
AG115	1.94E+00	2.15E+00	2.10E+00	1.16E+00	1.32E-04
AG115M	1.36E+00	1.36E+00	2.60E-01	5.18E-10	0.
AG116	2.40E+00	2.48E+00	1.61E+00	1.40E-02	0.
AG116M	2.54E+00	2.54E+00	1.56E-02	0.	0.
AG117	2.53E+00	2.53E+00	8.77E-01	2.63E-05	0.
AG117M	2.59E+00	2.59E+00	4.62E-06	0.	0.
AG118	4.38E+00	4.38E+00	2.22E-09	0.	0.
AG118M	1.88E+00	1.88E+00	4.59E-09	0.	0.
AG119	3.88E+00	3.88E+00	4.09E-06	0.	0.
AG120	2.71E+00	2.71E+00	1.74E-09	0.	0.
AG121	1.67E+00	1.67E+00	1.54E-12	0.	0.
AG122	9.11E-01	9.11E-01	0.	0.	0.
AG123	4.62E-01	4.62E-01	0.	0.	0.
AG124	2.21E-01	2.21E-01	0.	0.	0.
AG125	4.74E-02	4.74E-02	0.	0.	0.
AG126	2.10E-02	2.10E-02	0.	0.	0.
AG127	0.	0.	0.	0.	0.
AG128	8.99E-04	8.99E-04	0.	0.	0.
CD108	0.	0.	0.	0.	0.
CD109	1.80E-19	1.80E-19	1.80E-19	1.80E-19	1.80E-19

TABLE III (cont'd)

PCM-1-20PC SPEC-DECAY

POWER= .01MW, BURNUP= 0.MWD, FLUX= 3.45E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = PCM-1 ROD(28.9 GRAMS UO2-2

	250 sec before scram	DISCHARGE	120.SEC	1220.SEC	17720.SEC
CD110	0.	0.	0.	0.	0.
CD111	0.	0.	0.	0.	0.
CD111M	2.41E-09	2.68E-09	2.60E-09	2.01E-09	4.00E-11
CD112	0.	0.	0.	0.	0.
CD113	0.	0.	0.	0.	0.
CD113M	3.87E-06	3.90E-06	3.91E-06	3.93E-06	4.13E-06
CD114	0.	0.	0.	0.	0.
CD115	2.57E-01	2.60E-01	2.61E-01	2.65E-01	2.57E-01
CD115M	2.54E-03	2.57E-03	2.58E-03	2.60E-03	2.63E-03
CD116	0.	0.	0.	0.	0.
CD117	5.16E-01	5.68E-01	5.76E-01	5.36E-01	1.58E-01
CD117M	2.65E-01	2.67E-01	2.88E-01	2.72E-01	1.07E-01
CD118	1.94E+00	2.15E+00	2.10E+00	1.63E+00	3.69E-02
CD119	2.00E+00	2.17E+00	1.89E+00	4.90E-01	7.65E-10
CD119M	2.47E+00	2.58E+00	1.72E+00	3.24E-02	0.
CD120	5.50E+00	5.49E+00	1.09E+00	3.30E-07	0.
CD121	5.58E+00	5.58E+00	9.18E-03	0.	0.
CD122	5.42E+00	5.42E+00	1.47E-06	0.	0.
CD123	5.03E+00	5.03E+00	2.55E-04	0.	0.
CD124	5.31E+00	5.31E+00	4.19E-02	2.17E-21	0.
CD125	2.55E+00	2.55E+00	0.	0.	0.
CD126	3.21E+00	3.21E+00	8.22E-10	0.	0.
CD127	1.65E+00	1.65E+00	0.	0.	0.
CD128	8.19E-01	8.19E-01	0.	0.	0.
CD129	1.62E-01	1.62E-01	0.	0.	0.
CD130	4.00E-01	4.00E-01	0.	0.	0.
CD131	4.19E-02	4.19E-02	0.	0.	0.
CD132	3.84E-03	3.84E-03	0.	0.	0.
IN113	0.	0.	0.	0.	0.
IN113M	7.11E-15	7.98E-15	7.98E-15	6.96E-15	1.13E-15
IN114	6.66E-09	6.68E-09	2.12E-09	2.21E-11	2.20E-11
IN114M	2.26E-11	2.29E-11	2.29E-11	2.29E-11	2.28E-11
IN115	5.63E-19	5.65E-19	5.67E-19	5.78E-19	7.50E-19
IN115M	2.34E-01	2.34E-01	2.34E-01	2.36E-01	2.50E-01
IN116	2.46E-05	2.47E-05	7.06E-08	0.	0.
IN116M	2.24E-05	2.50E-05	2.44E-05	1.93E-05	5.73E-07
IN117	2.73E-01	2.79E-01	2.82E-01	3.04E-01	2.64E-01
IN117M	3.48E-01	3.54E-01	3.58E-01	3.87E-01	3.28E-01
IN118	1.66E+00	1.85E+00	1.93E+00	1.77E+00	4.04E-02
IN118M	1.31E-03	1.31E-03	7.81E-11	0.	0.
IN119	1.22E+00	1.34E+00	1.26E+00	1.47E-01	3.20E-06
IN119M	1.87E+00	2.10E+00	2.17E+00	1.65E+00	5.50E-05
IN120	2.80E+00	2.81E+00	1.41E+00	2.22E-06	0.
IN120M	2.81E+00	2.82E+00	5.77E-01	1.75E-07	0.
IN121	4.78E+00	4.43E+00	4.37E-01	6.61E-13	0.
IN121M	1.26E+00	1.32E+00	9.16E-01	1.95E-02	0.
IN122	5.88E+00	5.88E+00	5.89E-03	0.	0.
IN122M	4.62E-01	4.62E-01	0.	0.	0.
IN123	4.84E+00	4.84E+00	6.79E-04	0.	0.
IN123M	2.05E+00	2.04E+00	4.04E-01	5.10E-08	0.
IN124	9.87E+00	9.87E+00	5.15E-02	2.67E-21	0.
IN125	4.21E+00	4.21E+00	2.61E-15	0.	0.

TABLE III (cont'd)

PCM-1-20PC SPEC-DECAY

POWER= .01MW, BURNUP= 0.MWD, FLUX= 3.45E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = PCM-1 ROD(628.9 GRAMS UO2-?

	250 sec before scram	DISCHARGE	120.SEC	1220.SEC	17720.SEC
IN125M	3.19E+00	3.19E+00	3.23E-03	0.	0.
IN126	1.92E+01	1.92E+01	1.38E-09	0.	0.
IN127	1.08E+01	1.08E+01	9.75E-18	0.	0.
IN127M	1.68E+01	1.68E+01	1.31E-09	0.	0.
IN128	2.74E+01	2.74E+01	4.60E-09	0.	0.
IN129	1.86E+01	1.86E+01	0.	0.	0.
IN130	3.38E+01	3.38E+01	0.	0.	0.
IN131	1.12E+01	1.12E+01	0.	0.	0.
IN132	3.37E+00	3.37E+00	0.	0.	0.
IN133	2.11E-01	2.11E-01	0.	0.	0.
IN134	4.59E-03	4.59E-03	0.	0.	0.
SN114	0.	0.	0.	0.	0.
SN115	0.	0.	0.	0.	0.
SN116	0.	0.	0.	0.	0.
SN117	0.	0.	0.	0.	0.
SN117M	5.98E-14	6.18E-14	6.18E-14	6.18E-14	6.12E-14
SN118	0.	0.	0.	0.	0.
SN119	0.	0.	0.	0.	0.
SN119M	5.38E-05	5.44E-05	5.46E-05	5.56E-05	5.58E-05
SN120	0.	0.	0.	0.	0.
SN121	6.19E-01	6.29E-01	6.31E-01	6.28E-01	6.58E-01
SN121M	2.71E-08	2.74E-08	2.74E-08	2.74E-08	2.74E-08
SN122	0.	0.	0.	0.	0.
SN123	5.75E-03	5.82E-03	5.82E-03	5.82E-03	5.82E-03
SN123M	1.36E+00	1.52E+00	1.50E+00	1.09E+00	9.31E-03
SN124	0.	0.	0.	0.	0.
SN125	1.10E-01	1.11E-01	1.11E-01	1.11E-01	1.10E-01
SN125M	5.77E+00	6.29E+00	5.51E+00	1.45E+00	2.92E-09
SN126	1.29E-07	1.31E-07	1.31E-07	1.31E-07	1.31E-07
SN127	6.91E+00	7.65E+00	7.58E+00	6.86E+00	1.53E+00
SN127M	1.79E+01	1.89E+01	1.35E+01	6.25E-01	5.86E-21
SN128	4.74E+01	5.27E+01	5.15E+01	4.15E+01	1.64E+00
SN129	7.75E+01	8.40E+01	6.98E+01	1.28E+01	1.18E-10
SN129M	1.61E+02	1.66E+02	9.52E+01	5.91E-01	0.
SN130	3.91E+02	4.10E+02	2.82E+02	9.10E+00	0.
SN131	4.49E+02	4.50E+02	1.20E+02	6.67E-04	0.
SN132	2.81E+02	2.81E+02	3.52E+01	1.85E-07	0.
SN133	8.22E+01	8.22E+01	0.	0.	0.
SN134	5.36E+00	5.36E+00	0.	0.	0.
SN135	6.60E-01	6.60E-01	0.	0.	0.
SN136	3.30E-02	3.30E-02	0.	0.	0.
SP121	0.	0.	0.	0.	0.
SB122	1.32E-06	1.35E-06	1.35E-06	1.35E-06	1.29E-06
SB122M	1.08E-05	1.14E-05	8.21E-06	3.98E-07	7.76E-27
SB123	0.	0.	0.	0.	0.
SB124	8.44E-06	8.54E-06	8.55E-06	8.56E-06	8.54E-06
SB124M	1.39E-03	1.40E-03	5.90E-04	2.10E-07	0.
SB125	1.38E-03	1.40E-03	1.40E-03	1.43E-03	1.46E-03
SB126	5.69E-03	5.75E-03	5.75E-03	5.76E-03	5.70E-03
SB126M	9.38E-02	1.03E-01	9.59E-02	4.91E-02	2.29E-06
SB127	2.36E+00	2.37E+00	2.38E+00	2.40E+00	2.44E+00
SB128	7.82E-01	8.06E-01	8.04E-01	7.85E-01	5.52E-01

TABLE III (cont'd)

PCM-1-20PC SPEC-DECAY

POWER= .01MW, BURNUP= 0.MWD, FLUX= 3.45E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = PCM-1 ROD(628.9 GRAMS UO2-2

	250 sec before scram	DISCHARGE	120.SEC	1220.SEC	17720.SEC
SB128M	3.50E+01	3.95E+01	4.10E+01	4.41E+01	1.99E+00
SB129	4.14E+01	4.41E+01	4.49E+01	4.52E+01	2.19E+01
SB130	1.10E+02	1.20E+02	1.04E+02	1.92E+01	5.84E-12
SB130M	1.93E+02	2.16E+02	2.20E+02	1.75E+02	1.02E+00
SB131	6.38E+02	7.06E+02	6.79E+02	3.94E+02	9.91E-02
SB132	7.65E+02	7.82E+02	4.55E+02	1.11E+00	0.
SB132M	4.52E+02	4.77E+02	3.40E+02	1.53E+01	9.67E-20
SB133	1.04E+03	1.07E+03	5.99E+02	3.00E+00	0.
SB134	1.16E+02	1.16E+02	0.	0.	0.
SB134M	1.11E+02	1.11E+02	4.67E-02	0.	0.
SB135	9.63E+01	9.63E+01	5.43E-20	0.	0.
SB136	1.49E+01	1.49E+01	0.	0.	0.
SB137	1.10E+00	1.10E+00	0.	0.	0.
SB138	8.10E-02	8.10E-02	0.	0.	0.
SB139	4.42E-03	4.42E-03	0.	0.	0.
TE122	0.	0.	0.	0.	0.
TE123	9.24E-25	9.34E-25	9.34E-25	9.35E-25	9.36E-25
TE123M	3.48E-11	3.52E-11	3.52E-11	3.52E-11	3.51E-11
TE124	0.	0.	0.	0.	0.
TE125	0.	0.	0.	0.	0.
TE125M	2.89E-06	2.91E-06	2.91E-06	2.96E-06	3.71E-06
TE126	0.	0.	0.	0.	0.
TE127	1.36E+00	1.37E+00	1.37E+00	1.38E+00	1.57E+00
TE127M	1.84E-03	1.85E-03	1.85E-03	1.88E-03	2.35E-03
TE128	0.	0.	0.	0.	0.
TE129	2.55E+01	2.60E+01	2.62E+01	2.76E+01	2.17E+01
TE129M	3.46E-01	3.47E-01	3.47E-01	3.50E-01	3.80E-01
TE130	0.	0.	0.	0.	0.
TE131	3.17E+02	3.57E+02	3.73E+02	4.16E+02	3.92E+00
TE131M	1.58E+01	1.60E+01	1.61E+01	1.62E+01	1.49E+01
TE132	9.21E+01	9.33E+01	9.36E+01	9.38E+01	9.01E+01
TE133	1.09E+03	1.21E+03	1.17E+03	5.09E+02	2.11E+00
TE133M	4.54E+02	5.05E+02	4.93E+02	3.92E+02	1.26E+01
TE134	1.23E+03	1.36E+03	1.32E+03	9.72E+02	1.04E+01
TE135	1.57E+03	1.57E+03	1.56E+01	6.24E-18	0.
TE136	9.11E+02	9.12E+02	1.74E+01	2.96E-15	0.
TE137	2.00E+02	2.00E+02	9.55E-09	0.	0.
TE138	4.24E+01	4.24E+01	0.	0.	0.
TE139	6.73E+00	6.73E+00	0.	0.	0.
TE140	6.62E-01	6.62E-01	0.	0.	0.
TE141	2.48E-02	2.48E-02	0.	0.	0.
TE142	7.79E-04	7.79E-04	0.	0.	0.
I127	0.	0.	0.	0.	0.
I128	3.25E-03	3.59E-03	3.39E-03	2.04E-03	9.96E-07
I129	5.87E-09	5.88E-09	5.89E-09	5.93E-09	6.55E-09
I130	1.56E-02	1.59E-02	1.59E-02	1.59E-02	1.23E-02
I130M	2.69E-02	2.92E-02	2.50E-02	6.00E-03	3.00E-12
I131	2.34E+01	2.34E+01	2.35E+01	2.39E+01	2.54E+01
I132	8.68E+01	8.71E+01	8.71E+01	8.77E+01	9.06E+01
I133	3.52E+02	3.55E+02	3.57E+02	3.65E+02	3.33E+02
I133M	6.15E+01	6.15E+01	5.95E-03	0.	0.
I134	4.68E+02	5.34E+02	5.59E+02	6.68E+02	8.00E+01

TABLE III (cont'd)

PCM-1-20PC SPEC-DECAY

POWER= .01MW, BURNUP= 0.MWD, FLUX= 3.45E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = PCM-1 ROD(626.9 GRAMS UO2-2

	250 sec before scram	DISCHARGE	120.SEC	1220.SEC	17720.SEC
I134M	1.87E+02	1.96E+02	1.33E+02	3.90E+00	0.
I135	4.55E+02	4.73E+02	4.73E+02	4.56E+02	2.83E+02
I136	1.38E+03	1.38E+03	6.15E+02	6.36E-02	0.
I136M	9.48E+02	9.49E+02	1.68E+02	2.12E-05	0.
I137	1.56E+03	1.56E+03	5.43E+01	1.86E-12	0.
I138	7.90E+02	7.90E+02	2.23E-03	0.	0.
I139	3.64E+02	3.64E+02	3.24E-13	0.	0.
I140	1.09E+02	1.09E+02	0.	0.	0.
I141	1.61E+01	1.61E+01	0.	0.	0.
I142	1.16E+00	1.16E+00	0.	0.	0.
I143	5.06E-02	5.06E-02	0.	0.	0.
I144	2.29E-03	2.29E-03	0.	0.	0.
I145	0.	0.	0.	0.	0.
XE128	0.	0.	0.	0.	0.
XE129	0.	0.	0.	0.	0.
XE129M	5.04E-08	5.10E-08	5.10E-08	5.09E-08	5.01E-08
XE130	0.	0.	0.	0.	0.
XE131	0.	0.	0.	0.	0.
XE131M	7.21E-03	7.24E-03	7.25E-03	7.37E-03	9.24E-03
XE132	0.	0.	0.	0.	0.
XE133	3.65E+01	3.66E+01	3.66E+01	3.71E+01	4.41E+01
XE133M	1.27E+01	1.27E+01	1.27E+01	1.29E+01	1.50E+01
XE134	0.	0.	0.	0.	0.
XE134M	1.13E+01	1.13E+01	0.	0.	0.
XE135	3.90E+02	3.87E+02	3.87E+02	3.90E+02	3.81E+02
XE135M	1.07E+02	1.14E+02	1.10E+02	8.65E+01	4.32E+01
XE136	0.	0.	0.	0.	0.
XE137	2.61E+03	2.76E+03	2.05E+03	7.51E+01	2.08E-20
XE138	1.97E+03	2.16E+03	1.96E+03	8.61E+02	1.19E-03
XE139	2.46E+03	2.46E+03	3.17E+02	2.02E-06	0.
XE140	1.78E+03	1.78E+03	3.94E+00	0.	0.
XE141	5.87E+02	5.87E+02	5.89E-19	0.	0.
XE142	1.81E+02	1.81E+02	0.	0.	0.
XE143	6.50E+01	2.50E+01	0.	0.	0.
XE144	3.08E+00	3.08E+00	0.	0.	0.
XE145	6.95E-02	6.95E-02	0.	0.	0.
XE146	7.92E-03	7.92E-03	0.	0.	0.
XE147	3.40E-04	3.40E-04	0.	0.	0.
CS133	0.	0.	0.	0.	0.
CS134	3.72E-06	3.74E-06	3.74E-06	3.76E-06	3.96E-06
CS134M	1.87E-03	2.04E-03	2.03E-03	1.88E-03	6.29E-04
CS135	2.63E-07	2.64E-07	2.64E-07	2.68E-07	3.30E-07
CS135M	9.28E-02	1.03E-01	1.01E-01	7.91E-02	2.17E-03
CS136	3.26E-02	3.30E-02	3.30E-02	3.30E-02	3.27E-02
CS137	4.68E-02	4.74E-02	4.78E-02	4.80E-02	4.81E-02
CS138	9.04E+02	1.02E+03	1.06E+03	1.13E+03	4.72E+00
CS138M	1.14E+02	1.18E+02	7.29E+01	9.12E-01	0.
CS139	2.25E+03	2.47E+03	2.27E+03	5.85E+02	7.34E-07
CS140	2.72E+03	2.71E+03	8.67E+02	5.60E-03	0.
CS141	2.11E+03	2.12E+03	7.75E+01	4.41E-12	0.
CS142	1.35E+03	1.39E+03	1.02E-18	0.	0.
CS143	7.43E+02	7.43E+02	4.21E-19	0.	0.

TABLE III (cont'd)

PCM-1-20PC SPEC-DECAY

POWER= .01MW, BURNUP= 0.MWD, FLUX= 3.45E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = PCM-1 ROD(628.9 GRAMS UO2-2

	250 sec before scram	DISCHARGE	120.SEC	1220.SEC	17720.SEC
CS144	1.4CE+02	1.40E+02	0.	0.	0.
CS145	3.32E+01	3.32E+01	0.	0.	0.
CS146	3.72E+00	3.72E+00	0.	0.	0.
CS147	3.44E-01	3.44E-01	0.	0.	0.
CS148	1.25E-02	1.25E-02	0.	0.	0.
CS149	C.	0.	0.	0.	0.
CS150	6.22E-06	6.22E-06	0.	0.	0.
BA134	C.	0.	0.	0.	0.
BA135	0.	0.	0.	0.	0.
BA135M	1.09E-05	1.11E-05	1.11E-05	1.10E-05	9.83E-06
BA136	C.	0.	0.	0.	0.
BA136M	5.22E-03	5.29E-03	5.29E-03	5.28E-03	5.23E-03
BA137	C.	0.	0.	0.	0.
BA137M	1.59E-01	1.62E-01	1.13E-01	4.59E-02	4.55E-02
BA138	C.	0.	0.	0.	0.
BA139	5.01E+02	5.66E+02	5.96E+02	6.85E+02	7.70E+01
BA140	3.93E+01	3.98E+01	3.99E+01	4.00E+01	3.96E+01
BA141	1.65E+03	1.81E+03	1.73E+03	8.62E+02	2.58E-02
BA142	2.01E+03	2.19E+03	1.93E+03	5.88E+02	1.08E-05
BA143	2.54E+03	2.54E+03	5.84E+00	0.	0.
BA144	2.04E+03	2.04E+03	1.07E+00	0.	0.
BA145	9.47E+02	9.47E+02	1.42E-03	0.	0.
BA146	3.19E+02	3.19E+02	1.21E-14	0.	0.
BA147	6.28E+01	6.28E+01	3.78E-15	0.	0.
BA148	7.58E+00	7.58E+00	5.73E-06	0.	0.
BA149	5.05E-01	5.05E-01	0.	0.	0.
BA150	2.59E-02	2.59E-02	2.05E-22	0.	0.
BA151	C.	0.	0.	0.	0.
BA152	2.94E-05	2.94E-05	0.	0.	0.
LA138	1.37E-16	1.39E-16	1.39E-16	1.39E-16	1.39E-16
LA139	0.	0.	0.	0.	0.
LA140	1.05E+01	1.05E+01	1.05E+01	1.07E+01	1.29E+01
LA141	3.01E+02	3.19E+02	3.28E+02	3.77E+02	1.98E+02
LA142	4.18E+02	4.71E+02	4.95E+02	5.74E+02	8.28E+01
LA143	1.86E+03	2.03E+03	1.88E+03	7.59E+02	9.28E-04
LA144	2.48E+03	2.45E+03	4.04E+02	2.13E-06	0.
LA145	1.77E+03	1.73E+03	1.13E+02	4.32E-10	0.
LA146	1.10E+03	1.10E+03	5.39E-02	0.	0.
LA147	5.11E+02	5.11E+02	1.29E-01	0.	0.
LA148	1.71E+02	1.71E+02	7.35E-06	0.	0.
LA149	3.44E+01	3.44E+01	8.45E-12	0.	0.
LA150	4.94E+00	4.94E+00	3.20E-22	0.	0.
LA151	4.42E-01	4.42E-01	0.	0.	0.
LA152	2.98E-02	2.98E-02	0.	0.	0.
LA153	1.57E-03	1.57E-03	0.	0.	0.
LA154	5.81E-05	5.81E-05	0.	0.	0.
LA155	0.	0.	0.	0.	0.
CE140	C.	0.	0.	0.	0.
CE141	1.29E+01	1.29E+01	1.29E+01	1.30E+01	1.42E+01
CE142	1.19E-11	1.19E-11	1.19E-11	1.21E-11	1.30E-11
CE143	2.41E+02	2.43E+02	2.44E+02	2.51E+02	2.33E+02
CE144	1.59E+00	1.61E+00	1.61E+00	1.61E+00	1.61E+00

TABLE III (cont'd)

PCM-1-20PC SPEC-DECAY

POWER= .01MW, BURNUP= 0.4WD, FLUX= 3.45E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = PCM-1 ROD(628.9 GRAMS U02-

	250 sec before scram	DISCHARGE	120.SEC	1220.SEC	17720.SEC
CE145	1.64E+03	1.78E+03	1.38E+03	2.97E+01	0.
CE146	9.34E+02	1.02E+03	9.39E+02	3.64E+02	5.68E-04
CE147	1.04E+03	1.04E+03	3.43E+02	6.37E-03	0.
CE148	7.28E+02	7.28E+02	1.06E+02	2.11E-06	0.
CE149	3.74E+02	3.74E+02	3.30E-11	0.	0.
CE150	1.41E+02	1.41E+02	7.22E-22	0.	0.
CE151	3.58E+01	3.58E+01	0.	0.	0.
CE152	6.56E+00	6.56E+00	1.75E-02	0.	0.
CE153	6.92E-01	6.92E-01	7.93E-22	0.	0.
CE154	5.13E-02	5.13E-02	4.47E-12	0.	0.
CE155	3.43E-03	3.43E-03	0.	0.	0.
CE156	2.28E-04	2.28E-04	0.	0.	0.
CE157	1.64E-05	1.64E-05	0.	0.	0.
PR141	0.	0.	0.	0.	0.
PR142	7.10E-06	7.38E-06	7.38E-06	7.37E-06	6.28E-06
PR142M	8.96E-06	9.81E-06	8.93E-06	3.74E-06	7.99E-12
PR143	1.06E+01	1.07E+01	1.07E+01	1.08E+01	1.31E+01
PR144	1.56E+00	1.58E+00	1.58E+00	1.60E+00	1.61E+00
PR144M	3.19E-02	3.32E-02	3.08E-02	2.13E-02	1.93E-02
PR145	2.66E+02	2.78E+02	2.63E+02	2.85E+02	1.66E+02
PR146	4.75E+02	5.33E+02	5.58E+02	5.74E+02	4.24E-01
PR147	7.15E+02	7.95E+02	7.79E+02	2.83E+02	3.57E-05
PR148	7.79E+02	8.00E+02	5.46E+02	1.05E+00	0.
PR149	4.95E+02	5.06E+02	2.79E+02	1.11E+00	0.
PR150	2.84E+02	2.84E+02	3.62E-01	0.	0.
PR151	1.42E+02	1.42E+02	1.44E-07	0.	0.
PR152	5.75E+01	5.75E+01	4.55E-02	0.	0.
PR153	1.53E+01	1.53E+01	3.35E-04	0.	0.
PR154	2.74E+00	2.74E+00	7.03E-12	0.	0.
PR155	3.54E-01	3.54E-01	2.81E-20	0.	0.
PR156	3.30E-02	3.30E-02	0.	0.	0.
PR157	3.25E-03	3.25E-03	0.	0.	0.
PR158	2.37E-04	2.37E-04	0.	0.	0.
PR159	8.76E-06	8.76E-06	0.	0.	0.
ND142	0.	0.	0.	0.	0.
ND143	0.	0.	0.	0.	0.
ND144	1.18E-18	1.18E-18	1.18E-18	1.20E-18	1.48E-18
ND145	0.	0.	0.	0.	0.
ND146	0.	0.	0.	0.	0.
ND147	1.58E+01	1.60E+01	1.60E+01	1.64E+01	1.64E+01
ND148	0.	0.	0.	0.	0.
ND149	9.30E+01	1.04E+02	1.08E+02	1.01E+02	1.61E+01
ND150	0.	0.	0.	0.	0.
ND151	1.38E+02	1.51E+02	1.36E+02	4.87E+01	1.03E-05
ND152	8.88E+01	9.70E+01	8.67E+01	2.87E+01	1.82E-06
ND153	6.96E+01	6.97E+01	2.09E+01	2.62E-04	0.
ND154	5.62E-01	5.69E-01	5.69E-01	5.68E-01	5.59E-01
ND155	8.11E+00	8.10E+00	3.34E-01	6.57E-14	0.
ND156	1.66E+00	1.66E+00	4.02E-01	8.76E-07	0.
ND157	2.75E-01	2.75E-01	5.42E-10	0.	0.
ND158	3.58E-02	3.58E-02	9.45E-07	0.	0.
ND159	2.58E-03	2.58E-03	0.	0.	0.

TABLE III (cont'd)

PCM-1-20PC SPEC-DECAY

POWER= .01MW, BURNUP= 0.MWD, FLUX= 3.45E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = PCM-1 ROD(628.9 GRAMS UO2-2

	250 sec before scram	DISCHARGE	120.SEC	1220.SEC	17720.SEC
ND160	4.75E-04	4.75E-04	4.42E-21	0.	0.
ND161	1.36E-05	1.36E-05	0.	0.	0.
PM147	8.94E-03	8.98E-03	8.99E-03	9.14E-03	1.14E-02
PM148	1.12E-04	1.15E-04	1.15E-04	1.15E-04	1.12E-04
PM148M	5.36E-06	5.54E-06	5.54E-06	5.54E-06	5.52E-06
PM149	3.04E+01	3.04E+01	3.05E+01	3.08E+01	3.16E+01
PM150	6.21E-02	6.62E-02	6.76E-02	6.25E-02	1.91E-02
PM151	1.88E+01	1.90E+01	1.91E+01	1.96E+01	1.78E+01
PM152	7.76E+01	8.67E+01	8.82E+01	4.25E+01	2.83E-06
PM152M	1.40E+00	1.51E+00	1.26E+00	2.31E-01	2.12E-12
PM153	6.36E+01	6.95E+01	6.29E+01	6.50E+00	3.04E-15
PM154	5.11E+00	5.29E+00	3.56E+00	6.04E-01	5.59E-01
PM154M	4.31E+00	4.36E+00	2.02E+00	1.74E-03	0.
PM155	1.40E+01	1.48E+01	2.77E+00	3.15E-09	0.
PM156	5.14E+00	5.16E+00	5.23E-01	1.13E-06	0.
PM157	1.68E+00	1.68E+00	5.00E-01	6.77E-06	0.
PM158	4.64E-01	4.64E-01	1.82E-06	0.	0.
PM159	6.82E-02	6.82E-02	2.00E-10	0.	0.
PM160	1.96E-02	1.96E-02	8.34E-21	0.	0.
PM161	6.45E-04	6.45E-04	0.	0.	0.
PM162	2.30E-05	2.30E-05	0.	0.	0.
SM147	7.56E-17	7.61E-17	7.63E-17	7.84E-17	1.13E-16
SM148	1.86E-23	1.87E-23	1.87E-23	1.91E-23	2.45E-23
SM149	4.43E-18	4.45E-18	4.45E-18	4.53E-18	5.67E-18
SM150	0.	0.	0.	0.	0.
SM151	3.47E-04	3.48E-04	3.49E-04	3.54E-04	4.27E-04
SM152	0.	0.	0.	0.	0.
SM153	5.27E+00	5.33E+00	5.36E+00	5.46E+00	5.11E+00
SM154	0.	0.	0.	0.	0.
SM155	8.80E+00	9.65E+00	9.53E+00	5.42E+00	1.01E-03
SM156	9.65E-01	9.94E-01	9.95E-01	9.74E-01	6.92E-01
SM157	2.24E+00	2.57E+00	2.31E+00	4.89E-01	2.19E-11
SM158	5.36E-01	5.95E-01	5.77E-01	4.32E-01	5.67E-03
SM159	3.95E-01	4.07E-01	2.45E-01	2.23E-03	0.
SM160	1.23E-01	1.32E-01	1.04E-01	1.17E-02	6.92E-17
SM161	1.50E-02	1.50E-02	2.37E-05	0.	0.
SM162	1.86E-03	1.86E-03	2.66E-05	3.32E-22	0.
SM163	1.52E-04	1.52E-04	1.23E-18	0.	0.
SM164	8.19E-06	8.19E-06	2.56E-14	0.	0.
SM165	4.78E-07	4.78E-07	0.	0.	0.
EU151	0.	0.	0.	0.	0.
EU152	7.06E-10	7.22E-10	7.22E-10	7.22E-10	7.22E-10
EU152M	2.16E-06	2.25E-06	2.25E-06	2.20E-06	1.56E-06
EU153	0.	0.	0.	0.	0.
EU154	7.37E-08	7.54E-08	7.54E-08	7.54E-08	7.54E-08
EU155	1.50E-03	1.52E-03	1.52E-03	1.56E-03	1.61E-03
EU156	4.91E-02	4.92E-02	4.93E-02	4.98E-02	5.65E-02
EU157	3.96E-01	4.02E-01	4.05E-01	4.16E-01	3.41E-01
EU158	2.00E-01	2.28E-01	2.38E-01	3.01E-01	3.06E-02
EU159	2.71E-01	3.04E-01	3.05E-01	1.72E-01	4.60E-06
EU160	1.54E-01	1.65E-01	1.24E-01	1.37E-02	8.11E-17
EU161	3.67E-02	3.65E-02	5.96E-03	8.00E-11	0.

TABLE III (cont'd)

PCM-1-20PC SPEC-DECAY

POWER= .01MW, BURNUP= 0.MWD, FLUX= 3.45E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = PCM-1 ROD(628.9 GRAMS UO2-2

	250 sec before scram	DISCHARGE	120.SEC	1220.SEC	17720.SEC
EU162	7.87E-03	8.37E-03	6.25E-03	3.70E-04	1.44E-22
EU163	1.70E-03	1.70E-03	6.36E-06	0.	0.
EU164	2.08E-04	2.08E-04	5.23E-14	0.	0.
EU165	3.20E-05	3.20E-05	2.15E-19	0.	0.
GD152	2.13E-23	2.14E-23	2.14E-23	2.18E-23	2.65E-23
GD153	3.24E-12	3.28E-12	3.28E-12	3.28E-12	3.28E-12
GD154	0.	0.	0.	0.	0.
GD155	0.	0.	0.	0.	0.
GD156	0.	0.	0.	0.	0.
GD157	0.	0.	0.	0.	0.
GD158	0.	0.	0.	0.	0.
GD159	5.74E-02	5.80E-02	5.63E-02	6.04E-02	5.33E-02
GD160	0.	0.	0.	0.	0.
GD161	3.94E-02	4.20E-02	3.41E-02	1.14E-03	0.
GD162	9.17E-03	1.02E-02	9.86E-03	3.90E-03	2.21E-11
GD163	4.54E-03	4.57E-03	2.00E-03	5.39E-07	0.
GD164	6.47E-04	7.42E-04	6.66E-04	3.72E-04	5.65E-08
GD165	4.26E-04	4.31E-04	1.88E-04	9.32E-08	0.
TB159	0.	0.	0.	0.	0.
TB160	4.18E-08	4.24E-08	4.24E-08	4.24E-08	4.23E-08
TB161	1.01E-03	1.02E-03	1.03E-03	1.04E-03	1.02E-03
TB162	7.01E-03	7.85E-03	8.19E-03	6.25E-03	8.56E-11
TB162M	4.40E-05	4.88E-05	5.03E-05	5.60E-05	1.55E-05
TB163	2.64E-03	2.95E-03	2.97E-03	1.64E-03	9.30E-08
TB163M	7.30E-14	8.17E-14	6.56E-14	1.14E-14	1.70E-26
TB164	7.64E-04	8.39E-04	7.83E-04	4.32E-04	6.56E-08
TB165	6.61E-04	6.49E-04	2.80E-04	1.39E-07	0.
DY160	0.	0.	0.	0.	0.
DY161	0.	0.	0.	0.	0.
DY162	0.	0.	0.	0.	0.
DY163	0.	0.	0.	0.	0.
DY164	0.	0.	0.	0.	0.
DY165	1.02E-04	1.13E-04	1.17E-04	1.12E-04	2.90E-05
DY165M	3.11E-04	3.33E-04	2.46E-04	2.67E-07	0.
DY166	1.35E-06	1.37E-06	1.37E-06	1.37E-06	1.32E-06
HO165	0.	0.	0.	0.	0.
HO166	5.33E-07	5.35E-07	5.36E-07	5.42E-07	6.32E-07
HO166M	7.06E-14	7.15E-14	7.15E-14	7.15E-14	7.15E-14
ER166	0.	0.	0.	0.	0.
ER167	0.	0.	0.	0.	0.
ER167M	1.88E-09	1.88E-09	3.71E-25	0.	0.
TOTAL	1.57E+05	1.62E+05	6.25E+04	2.53E+04	1.25E+03

TABLE IV

FISSION PRODUCT INVENTORY FOR RIA ST-1

The column headed by DISCHARGE lists the inventory immediately after the final burst. The other listed times are times since the final burst. The calculation assumed an energy deposit of 200 MeV/fission.

TABLE IV (cont'd)

DECAY FOLLOWING BURST RIA-ST-1 5.8PC

POWER= 0.00MW, BURNUP= 4. MWD, FLUX= 2.32E 12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-1 (494.6 GRAMS UO2-5.8%

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
H 3	0.0	1.69E-10	1.69E-10	1.69E-10	1.69E-10	1.68E-10	1.67E-10
CO 72	0.0	8.40E-04	0.0	0.0	0.0	0.0	0.0
CO 73	0.0	4.94E-05	0.0	0.0	0.0	0.0	0.0
CO 74	0.0	1.22E-04	0.0	0.0	0.0	0.0	0.0
CO 75	0.0	2.09E-05	0.0	0.0	0.0	0.0	0.0
NI 72	0.0	3.02E-02	0.0	0.0	0.0	0.0	0.0
NI 73	0.0	1.40E-02	0.0	0.0	0.0	0.0	0.0
NI 74	0.0	3.89E-02	0.0	0.0	0.0	0.0	0.0
NI 75	0.0	2.08E-02	0.0	0.0	0.0	0.0	0.0
NI 76	0.0	7.00E-03	0.0	0.0	0.0	0.0	0.0
NI 77	0.0	9.46E-04	0.0	0.0	0.0	0.0	0.0
NI 78	0.0	1.30E-04	0.0	0.0	0.0	0.0	0.0
CU 72	0.0	7.24E-02	0.0	0.0	0.0	0.0	0.0
CU 73	0.0	1.33E-01	0.0	0.0	0.0	0.0	0.0
CU 74	0.0	4.05E-01	0.0	0.0	0.0	0.0	0.0
CU 75	0.0	5.83E-01	0.0	0.0	0.0	0.0	0.0
CU 76	0.0	5.93E-01	0.0	0.0	0.0	0.0	0.0
CU 77	0.0	2.43E-01	0.0	0.0	0.0	0.0	0.0
CU 78	0.0	1.09E-01	0.0	0.0	0.0	0.0	0.0
CU 79	0.0	1.33E-02	0.0	0.0	0.0	0.0	0.0
CU 80	0.0	1.98E-03	0.0	0.0	0.0	0.0	0.0
CU 81	0.0	1.11E-04	0.0	0.0	0.0	0.0	0.0
ZN 72	0.0	1.73E-04	1.37E-04	2.21E-05	2.78E-06	5.51E-09	1.72E-13
ZN 73	0.0	3.17E-01	0.0	0.0	0.0	0.0	0.0
ZN 74	0.0	9.82E-01	0.0	0.0	0.0	0.0	0.0
ZN 75	0.0	2.90E 00	0.0	0.0	0.0	0.0	0.0
ZN 76	0.0	7.17E 00	0.0	0.0	0.0	0.0	0.0
ZN 77	0.0	7.89E 00	0.0	0.0	0.0	0.0	0.0
ZN 78	0.0	1.05E 01	0.0	0.0	0.0	0.0	0.0
ZN 79	0.0	4.20E 00	0.0	0.0	0.0	0.0	0.0
ZN 80	0.0	2.05E 00	0.0	0.0	0.0	0.0	0.0
ZN 81	0.0	3.66E-01	0.0	0.0	0.0	0.0	0.0
ZN 82	0.0	3.77E-02	0.0	0.0	0.0	0.0	0.0
ZN 83	0.0	2.95E-03	0.0	0.0	0.0	0.0	0.0
GA 72	0.0	2.11E-06	8.68E-05	3.15E-05	3.99E-06	7.91E-09	2.47E-13
GA 73	0.0	5.98E-03	6.01E-04	1.68E-11	4.38E-20	0.0	0.0
GA 74	0.0	4.14E-01	0.0	0.0	0.0	0.0	0.0
GA 75	0.0	3.09E 00	0.0	0.0	0.0	0.0	0.0
GA 76	0.0	1.02E 01	0.0	0.0	0.0	0.0	0.0
GA 77	0.0	2.10E 01	0.0	0.0	0.0	0.0	0.0
GA 78	0.0	4.64E 01	0.0	0.0	0.0	0.0	0.0
GA 79	0.0	4.33E 01	0.0	0.0	0.0	0.0	0.0
GA 80	0.0	6.00E 01	0.0	0.0	0.0	0.0	0.0
GA 81	0.0	3.21E 01	0.0	0.0	0.0	0.0	0.0
GA 82	0.0	1.07E 01	0.0	0.0	0.0	0.0	0.0
GA 83	0.0	2.67E 00	0.0	0.0	0.0	0.0	0.0
GA 84	0.0	1.38E-01	0.0	0.0	0.0	0.0	0.0
GA 85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GE 72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GE 73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GE 73M	0.0	6.12E-03	6.01E-04	1.68E-11	4.38E-20	0.0	0.0
GE 74	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE IV (cont'd)

DECAY FOLLOWING BURST RIA-ST-1 5.8PC

POWER= 0.00Mw, BURNUP= 4.MWD, FLUX= 2.32E 12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-1 1494.6 GRAMS UC2-5.0

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
GE 75	0.0	1.51E-01	5.24E-05	0.0	0.0	0.0	0.0
GE 75M	0.0	1.31E-01	0.0	0.0	0.0	0.0	0.0
GE 76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GE 77	0.0	6.53E-02	2.61E-02	1.43E-05	2.80E-09	2.11E-20	6.14E-39
GE 77M	0.0	1.90E 01	0.0	0.0	0.0	0.0	0.0
GE 78	0.0	3.09E 00	1.07E-03	0.0	0.0	0.0	0.0
GE 79	0.0	1.19E 02	0.0	0.0	0.0	0.0	0.0
GE 80	0.0	3.11E 02	0.0	0.0	0.0	0.0	0.0
GE 81	0.0	4.04E 02	0.0	0.0	0.0	0.0	0.0
GE 82	0.0	3.79E 02	0.0	0.0	0.0	0.0	0.0
GE 83	0.0	2.75E 02	0.0	0.0	0.0	0.0	0.0
GE 84	0.0	4.66E 01	0.0	0.0	0.0	0.0	0.0
GE 85	0.0	1.77E 01	0.0	0.0	0.0	0.0	0.0
GE 86	0.0	3.25E 00	0.0	0.0	0.0	0.0	0.0
GE 87	0.0	5.61E-01	0.0	0.0	0.0	0.0	0.0
GE 88	0.0	5.98E-03	0.0	0.0	0.0	0.0	0.0
AS 75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AS 76	0.0	3.53E-05	2.28E-05	9.02E-07	2.30E-08	3.83E-13	4.16E-21
AS 77	0.0	3.13E-02	4.01E-02	5.69E-03	4.74E-04	2.74E-07	1.10E-12
AS 78	0.0	1.43E-01	9.81E-03	0.0	0.0	0.0	0.0
AS 78M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AS 79	0.0	6.31E 01	0.0	0.0	0.0	0.0	0.0
AS 80	0.0	3.59E 02	0.0	0.0	0.0	0.0	0.0
AS 81	0.0	5.85E 02	0.0	0.0	0.0	0.0	0.0
AS 82	0.0	6.17E 02	0.0	0.0	0.0	0.0	0.0
AS 82M	0.0	2.38E 02	0.0	0.0	0.0	0.0	0.0
AS 83	0.0	1.19E 03	0.0	0.0	0.0	0.0	0.0
AS 84	0.0	8.67E 02	0.0	0.0	0.0	0.0	0.0
AS 85	0.0	5.76E 02	0.0	0.0	0.0	0.0	0.0
AS 86	0.0	3.24E 02	0.0	0.0	0.0	0.0	0.0
AS 87	0.0	1.97E 02	0.0	0.0	0.0	0.0	0.0
AS 88	0.0	7.12E 00	0.0	0.0	0.0	0.0	0.0
AS 89	0.0	5.73E-01	0.0	0.0	0.0	0.0	0.0
AS 90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE 76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE 77M	0.0	1.51E-04	1.20E-04	1.71E-05	1.42E-06	8.21E-10	3.29E-15
SE 78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE 79	0.0	5.40E-05	5.40E-05	5.40E-05	5.40E-05	5.40E-05	5.40E-05
SE 79M	0.0	3.26E 01	0.0	0.0	0.0	0.0	0.0
SE 80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE 81	0.0	1.41E 02	1.64E-05	0.0	0.0	0.0	0.0
SE 81M	0.0	2.04E 00	1.11E-05	0.0	0.0	0.0	0.0
SE 82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE 83	0.0	1.23E 02	5.02E-12	0.0	0.0	0.0	0.0
SE 83M	0.0	9.14E 02	0.0	0.0	0.0	0.0	0.0
SE 84	0.0	2.23E 03	0.0	0.0	0.0	0.0	0.0
SE 85	0.0	1.89E 03	0.0	0.0	0.0	0.0	0.0
SE 86	0.0	1.31E 03	0.0	0.0	0.0	0.0	0.0
SE 87	0.0	3.69E 03	0.0	0.0	0.0	0.0	0.0
SE 87	0.0	1.87E 03	0.0	0.0	0.0	0.0	0.0
SE 88	0.0	4.68E 02	0.0	0.0	0.0	0.0	0.0

TABLE IV (cont'd)

DECAY FOLLOWING BURST RIA-ST-1 5.8PC

POWER= 0.00MW, BURNUP= 4.MWD, FLUX= 2.32E 12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-1 (494.6 GRAMS UO2-5.8%

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
SE 89	0.0	2.52E 02	0.0	0.0	0.0	0.0	0.0
SE 90	0.0	9.54E 01	0.0	0.0	0.0	0.0	0.0
SE 91	0.0	9.80E 00	0.0	0.0	0.0	0.0	0.0
SE 92	0.0	1.48E-01	0.0	0.0	0.0	0.0	0.0
SE 93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BR 79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BR 79M	0.0	2.66E-05	0.0	0.0	0.0	0.0	0.0
BR 80	0.0	4.27E-04	2.64E-06	1.20E-14	3.98E-24	0.0	0.0
BR 80M	0.0	3.38E-05	2.46E-06	1.12E-14	3.72E-24	0.0	0.0
BR 81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BR 82	0.0	3.73E-03	4.86E-03	4.41E-04	2.89E-05	8.12E-09	9.78E-15
BR 82M	0.0	1.07E 00	0.0	0.0	0.0	0.0	0.0
BR 83	0.0	3.18E 01	5.16E-01	2.25E-16	7.87E-34	0.0	0.0
BR 84	0.0	2.49E 02	1.67E-07	0.0	0.0	0.0	0.0
BR 84M	0.0	3.70E 01	0.0	0.0	0.0	0.0	0.0
BR 85	0.0	2.96E 03	0.0	0.0	0.0	0.0	0.0
BR 86	0.0	2.60E 03	0.0	0.0	0.0	0.0	0.0
BR 86M	0.0	2.72E 03	0.0	0.0	0.0	0.0	0.0
BR 87	0.0	6.21E 03	0.0	0.0	0.0	0.0	0.0
BR 88	0.0	7.15E 03	0.0	0.0	0.0	0.0	0.0
BR 89	0.0	5.49E 03	0.0	0.0	0.0	0.0	0.0
BR 90	0.0	3.77E 03	0.0	0.0	0.0	0.0	0.0
BR 91	0.0	1.20E 03	0.0	0.0	0.0	0.0	0.0
BR 92	0.0	5.37E 01	0.0	0.0	0.0	0.0	0.0
BR 93	0.0	1.47E 01	0.0	0.0	0.0	0.0	0.0
BR 94	0.0	9.41E-01	0.0	0.0	0.0	0.0	0.0
BR 95	0.0	2.05E-02	0.0	0.0	0.0	0.0	0.0
BR 96	0.0	1.15E-03	0.0	0.0	0.0	0.0	0.0
KR 80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KR 81	0.0	7.17E-12	7.17E-12	7.17E-12	7.17E-12	7.17E-12	7.17E-12
KR 81M	0.0	6.56E-05	0.0	0.0	0.0	0.0	0.0
KR 82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KR 83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KR 83M	0.0	6.77E-01	1.73E 00	9.99E-16	3.50E-33	0.0	0.0
KR 84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KR 85	0.0	1.15E 00	1.15E 00	1.15E 00	1.14E 00	1.14E 00	1.14E 00
KR 85M	0.0	4.20E 01	6.05E 00	3.58E-08	1.60E-17	0.0	0.0
KR 86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KR 87	0.0	4.53E 02	5.73E-02	0.0	0.0	0.0	0.0
KR 88	0.0	3.32E 02	5.51E 00	3.75E-13	4.10E-28	0.0	0.0
KR 89	0.0	1.11E 04	0.0	0.0	0.0	0.0	0.0
KR 90	0.0	1.35E 04	0.0	0.0	0.0	0.0	0.0
KR 91	0.0	9.99E 03	0.0	0.0	0.0	0.0	0.0
KR 92	0.0	4.41E 03	0.0	0.0	0.0	0.0	0.0
KR 93	0.0	1.53E 03	0.0	0.0	0.0	0.0	0.0
KR 94	0.0	6.68E 02	0.0	0.0	0.0	0.0	0.0
KR 95	0.0	2.46E 01	0.0	0.0	0.0	0.0	0.0
KR 96	0.0	4.75E 00	0.0	0.0	0.0	0.0	0.0
KR 97	0.0	8.63E-02	0.0	0.0	0.0	0.0	0.0
KR 98	0.0	1.55E-02	0.0	0.0	0.0	0.0	0.0
RB 85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RB 86	0.0	3.53E-04	2.97E-04	2.46E-04	1.98E-04	1.04E-04	3.53E-05

TABLE IV (cont'd)

DECAY FOLLOWING BURST RIA-ST-1 5.8PC

POWER= 0.00MW, BURNUP= 4.MWD, FLUX= 2.32E 12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-1 (494.6 GRAMS UO2-5.6w

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
RB 86M	0.0	3.21E-01	0.0	0.0	0.0	0.0	0.0
RB 87	0.0	3.70E-09	3.70E-09	3.70E-09	3.70E-09	3.70E-09	3.70E-09
RB 88	0.0	7.55E 01	6.16E 00	4.20E-13	4.58E-28	0.0	0.0
RB 89	0.0	2.50E 03	7.78E-17	0.0	0.0	0.0	0.0
RB 90	0.0	1.09E 04	0.0	0.0	0.0	0.0	0.0
RB 90M	0.0	2.37E 03	0.0	0.0	0.0	0.0	0.0
RB 91	0.0	1.62E 04	0.0	0.0	0.0	0.0	0.0
RB 92	0.0	1.38E 04	0.0	0.0	0.0	0.0	0.0
RB 93	0.0	1.03E 04	0.0	0.0	0.0	0.0	0.0
RB 94	0.0	4.94E 03	0.0	0.0	0.0	0.0	0.0
RB 95	0.0	2.58E 03	0.0	0.0	0.0	0.0	0.0
RB 96	0.0	5.57E 02	0.0	0.0	0.0	0.0	0.0
RB 97	0.0	9.82E 01	0.0	0.0	0.0	0.0	0.0
RB 98	0.0	1.55E 01	0.0	0.0	0.0	0.0	0.0
RB 99	0.0	1.27E 00	0.0	0.0	0.0	0.0	0.0
RB100	0.0	6.10E-02	0.0	0.0	0.0	0.0	0.0
RB101	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SR 86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SR 87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SR 87M	0.0	1.79E-04	2.91E-06	2.23E-19	2.79E-34	0.0	0.0
SR 88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SR 89	0.0	7.73E-02	1.05E 00	9.79E-01	9.06E-01	7.18E-01	4.88E-01
SR 90	0.0	1.21E 01	1.21E 01	1.21E 01	1.21E 01	1.21E 01	1.21E 01
SR 91	0.0	1.40E 02	5.02E 01	6.49E-03	2.47E-07	1.37E-20	0.0
SR 92	0.0	5.86E 02	8.28E 00	2.06E-13	7.17E-29	0.0	0.0
SR 93	0.0	9.58E 03	0.0	0.0	0.0	0.0	0.0
SR 94	0.0	1.73E 04	0.0	0.0	0.0	0.0	0.0
SR 95	0.0	1.58E 04	0.0	0.0	0.0	0.0	0.0
SR 96	0.0	1.08E 04	0.0	0.0	0.0	0.0	0.0
SR 97	0.0	5.51E 03	0.0	0.0	0.0	0.0	0.0
SR 98	0.0	2.00E 03	0.0	0.0	0.0	0.0	0.0
SR 99	0.0	4.49E 02	0.0	0.0	0.0	0.0	0.0
SR100	0.0	6.95E 01	0.0	0.0	0.0	0.0	0.0
SR101	0.0	8.88E 00	0.0	0.0	0.0	0.0	0.0
SR102	0.0	6.30E-01	0.0	0.0	0.0	0.0	0.0
SR103	0.0	1.64E-02	0.0	0.0	0.0	0.0	0.0
SR104	0.0	3.48E-04	0.0	0.0	0.0	0.0	0.0
Y 89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Y 89M	0.0	1.40E-03	0.0	0.0	0.0	0.0	0.0
Y 90	0.0	1.21E 01	1.21E 01	1.21E 01	1.21E 01	1.21E 01	1.21E 01
Y 90M	0.0	1.75E-03	4.18E-05	5.35E-17	1.64E-30	0.0	0.0
Y 91	0.0	1.95E-03	7.91E-01	1.08E 00	1.01E 00	8.23E-01	5.84E-01
Y 91M	0.0	4.07E 00	3.17E 01	4.10E-03	1.56E-07	8.65E-21	0.0
Y 92	0.0	8.62E 00	4.68E 01	2.68E-09	3.65E-21	0.0	0.0
Y 93	0.0	5.33E 01	5.59E 01	1.36E-02	1.06E-06	5.06E-19	1.47E-39
Y 93M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Y 94	0.0	3.94E 03	6.90E-13	0.0	0.0	0.0	0.0
Y 95	0.0	7.39E 03	0.0	0.0	0.0	0.0	0.0
Y 96	0.0	1.60E 04	0.0	0.0	0.0	0.0	0.0
Y 97	0.0	1.17E 04	0.0	0.0	0.0	0.0	0.0
Y 98	0.0	7.84E 04	0.0	0.0	0.0	0.0	0.0
Y 99	0.0	5.84E 03	0.0	0.0	0.0	0.0	0.0

TABLE IV (cont'd)

DECAY FOLLOWING BURST RIA-ST-1 5.8PC

POWER= 0.00MW, BURNUP= 4.MWD, FLUX= 2.32E 12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-1 (494.6 GRAMS UO2-5.

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
Y100	0.0	2.52E 03	0.0	0.0	0.0	0.0	0.0
Y101	0.0	7.78E 02	0.0	0.0	0.0	0.0	0.0
Y102	0.0	1.58E 02	0.0	0.0	0.0	0.0	0.0
Y103	0.0	1.64E 01	0.0	0.0	0.0	0.0	0.0
Y104	0.0	8.36E-01	0.0	0.0	0.0	0.0	0.0
Y105	0.0	2.71E-02	0.0	0.0	0.0	0.0	0.0
Y106	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Y107	0.0	9.72E-05	0.0	0.0	0.0	0.0	0.0
ZR 90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZR 90M	0.0	1.52E-05	1.67E-07	2.14E-19	6.56E-33	0.0	0.0
ZR 91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZR 92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZR 93	0.0	4.61E-04	4.61E-04	4.61E-04	4.61E-04	4.61E-04	4.61E-04
ZR 94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZR 95	0.0	2.51E-01	1.14E 00	1.08E 00	1.01E 00	8.44E-01	6.21E-01
ZR 96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZR 97	0.0	9.90E 01	4.98E 01	3.18E-01	1.03E-03	3.40E-11	1.16E-23
ZR 98	0.0	1.68E 04	0.0	0.0	0.0	0.0	0.0
ZR 99	0.0	1.72E 04	0.0	0.0	0.0	0.0	0.0
ZR100	0.0	1.57E 04	0.0	0.0	0.0	0.0	0.0
ZR101	0.0	1.01E 04	0.0	0.0	0.0	0.0	0.0
ZR102	0.0	5.20E 03	0.0	0.0	0.0	0.0	0.0
ZR103	0.0	1.58E 03	0.0	0.0	0.0	0.0	0.0
ZR104	0.0	2.43E 02	0.0	0.0	0.0	0.0	0.0
ZR105	0.0	2.03E 01	0.0	0.0	0.0	0.0	0.0
ZR106	0.0	6.60E 00	0.0	0.0	0.0	0.0	0.0
ZR107	0.0	2.92E-01	0.0	0.0	0.0	0.0	0.0
ZR108	0.0	7.70E-03	0.0	0.0	0.0	0.0	0.0
ZR109	0.0	3.72E-04	0.0	0.0	0.0	0.0	0.0
NB 93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NB 93M	0.0	1.43E-04	1.43E-04	1.43E-04	1.44E-04	1.44E-04	1.46E-04
NB 94	0.0	4.60E-09	4.60E-09	4.60E-09	4.60E-09	4.60E-09	4.60E-09
NB 94M	0.0	1.55E-03	0.0	0.0	0.0	0.0	0.0
NB 95	0.0	2.95E-05	1.55E-02	1.19E-01	2.19E-01	4.24E-01	5.51E-01
NB 95M	0.0	5.78E-04	2.22E-03	9.10E-03	1.14E-02	1.07E-02	7.88E-03
NB 96	0.0	9.21E-03	5.61E-03	1.49E-04	2.42E-06	1.03E-11	1.15E-20
NB 97	0.0	7.00E 00	5.04E 01	3.22E-01	1.04E-03	3.67E-11	1.25E-23
NB 97M	0.0	8.55E 01	4.30E 01	2.75E-01	8.87E-04	2.93E-11	9.97E-24
NB 98	0.0	1.64E 02	0.0	0.0	0.0	0.0	0.0
NB 98M	0.0	1.64E 03	2.21E-03	0.0	0.0	0.0	0.0
NB 99	0.0	1.76E 04	0.0	0.0	0.0	0.0	0.0
NB 99M	0.0	4.38E 02	0.0	0.0	0.0	0.0	0.0
NB100	0.0	9.33E 03	0.0	0.0	0.0	0.0	0.0
NB100M	0.0	9.33E 03	0.0	0.0	0.0	0.0	0.0
NB101	0.0	1.47E 04	0.0	0.0	0.0	0.0	0.0
NB102	0.0	1.14E 04	0.0	0.0	0.0	0.0	0.0
NB103	0.0	6.76E 03	0.0	0.0	0.0	0.0	0.0
NB104	0.0	2.48E 03	0.0	0.0	0.0	0.0	0.0
NB105	0.0	5.97E 02	0.0	0.0	0.0	0.0	0.0
NB106	0.0	2.04E 02	0.0	0.0	0.0	0.0	0.0
NB107	0.0	2.68E 01	0.0	0.0	0.0	0.0	0.0
NB108	0.0	2.02E 00	0.0	0.0	0.0	0.0	0.0

TABLE IV (cont'd)

DECAY FOLLOWING BURST RIA-ST-1 5.8PC

POWER= 0.00MW, BURNUP= 4.MWD, FLUX= 2.32E 12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-1 (494.6 GRAMS UO2-5.8%

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
NB109	0.0	1.42E-01	0.0	0.0	0.0	0.0	0.0
NB110	0.0	5.29E-03	0.0	0.0	0.0	0.0	0.0
NB111	0.0	3.39E-04	0.0	0.0	0.0	0.0	0.0
NB112	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MO 95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MO 96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MO 97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MO 98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MO 99	0.0	2.47E 01	2.20E 01	6.08E 00	1.41E 00	1.76E-02	1.18E-05
MO100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MO101	0.0	4.77E 03	1.08E-17	0.0	0.0	0.0	0.0
MO102	0.0	4.92E 03	0.0	0.0	0.0	0.0	0.0
MO103	0.0	9.52E 03	0.0	0.0	0.0	0.0	0.0
MO104	0.0	5.68E 03	0.0	0.0	0.0	0.0	0.0
MO105	0.0	3.22E 03	0.0	0.0	0.0	0.0	0.0
MO106	0.0	1.26E 03	0.0	0.0	0.0	0.0	0.0
MO107	0.0	3.88E 02	0.0	0.0	0.0	0.0	0.0
MO108	0.0	9.32E 01	0.0	0.0	0.0	0.0	0.0
MO109	0.0	1.54E 01	0.0	0.0	0.0	0.0	0.0
MO110	0.0	1.74E 00	0.0	0.0	0.0	0.0	0.0
MO111	0.0	1.44E-01	0.0	0.0	0.0	0.0	0.0
MO112	0.0	1.03E-02	0.0	0.0	0.0	0.0	0.0
MO113	0.0	1.19E-03	0.0	0.0	0.0	0.0	0.0
MO114	0.0	5.93E-05	0.0	0.0	0.0	0.0	0.0
MO115	0.0	2.83E-06	0.0	0.0	0.0	0.0	0.0
TC 99	0.0	2.00E-03	2.00E-03	2.00E-03	2.00E-03	2.00E-03	2.00E-03
TC 99M	0.0	1.68E-01	1.73E 01	5.78E 00	1.34E 00	1.67E-02	1.12E-05
TC100	0.0	1.82E 02	0.0	0.0	0.0	0.0	0.0
TC101	0.0	8.97E 02	2.91E-16	0.0	0.0	0.0	0.0
TC102	0.0	4.93E 03	0.0	0.0	0.0	0.0	0.0
TC102M	0.0	4.08E 00	0.0	0.0	0.0	0.0	0.0
TC103	0.0	9.49E 03	0.0	0.0	0.0	0.0	0.0
TC104	0.0	1.26E 03	3.18E-14	0.0	0.0	0.0	0.0
TC105	0.0	1.71E 03	0.0	0.0	0.0	0.0	0.0
TC106	0.0	1.67E 03	0.0	0.0	0.0	0.0	0.0
TC107	0.0	6.97E 02	0.0	0.0	0.0	0.0	0.0
TC108	0.0	3.42E 02	0.0	0.0	0.0	0.0	0.0
TC109	0.0	1.30E 02	0.0	0.0	0.0	0.0	0.0
TC110	0.0	3.22E 01	0.0	0.0	0.0	0.0	0.0
TC111	0.0	7.34E 00	0.0	0.0	0.0	0.0	0.0
TC112	0.0	1.17E 00	0.0	0.0	0.0	0.0	0.0
TC113	0.0	2.89E-01	0.0	0.0	0.0	0.0	0.0
TC114	0.0	3.50E-02	0.0	0.0	0.0	0.0	0.0
TC115	0.0	3.90E-03	0.0	0.0	0.0	0.0	0.0
TC116	0.0	2.48E-04	0.0	0.0	0.0	0.0	0.0
TC117	0.0	2.69E-05	0.0	0.0	0.0	0.0	0.0
TC118	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU 99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU101	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU102	0.0	0.0	0.0	0.0	0.0	0.0	0.0
[illegible]	0.0	6.63E-01	9.88E-01	9.04E-01	8.17E-01	6.02E-01	3.63E-01

TABLE IV (cont'd)

DECAY FOLLOWING BURST RIA-ST-1 5.8PC

POWER= 0.00MW, BURNUP= 4.4MWD, FLUX= 2.32E 12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-1 (494.6 GRAMS UO2-5.8

	CHARGE	DISCHARGE	120. SEC	1000. SEC	2000. SEC	5000. SEC	10000. SEC
RU104	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU105	0.0	1.84E 01	6.09E 00	3.02E-08	1.10E-17	0.0	0.0
RU106	0.0	4.41E-01	4.43E-01	4.39E-01	4.34E-01	4.20E-01	3.98E-01
RU107	0.0	6.79E 02	0.0	0.0	0.0	0.0	0.0
RU108	0.0	3.91E 02	0.0	0.0	0.0	0.0	0.0
RU109	0.0	2.98E 02	0.0	0.0	0.0	0.0	0.0
RU110	0.0	1.42E 02	0.0	0.0	0.0	0.0	0.0
RU111	0.0	7.14E 01	0.0	0.0	0.0	0.0	0.0
RU112	0.0	2.57E 01	0.0	0.0	0.0	0.0	0.0
RU113	0.0	1.22E 01	0.0	0.0	0.0	0.0	0.0
RU114	0.0	4.06E 00	0.0	0.0	0.0	0.0	0.0
RU115	0.0	9.32E-01	0.0	0.0	0.0	0.0	0.0
RU116	0.0	1.69E-01	0.0	0.0	0.0	0.0	0.0
RU117	0.0	9.01E-02	0.0	0.0	0.0	0.0	0.0
RU118	0.0	3.98E-02	0.0	0.0	0.0	0.0	0.0
RU119	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU120	0.0	1.40E-05	0.0	0.0	0.0	0.0	0.0
RH103	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RH103M	0.0	2.49E-02	9.89E-01	9.05E-01	8.17E-01	6.03E-01	3.63E-01
RH104	0.0	7.23E 02	0.0	0.0	0.0	0.0	0.0
RH104M	0.0	3.94E 01	0.0	0.0	0.0	0.0	0.0
RH105	0.0	1.56E-02	7.67E 00	7.82E-01	5.16E-02	1.49E-05	1.87E-11
RH105M	0.0	4.76E 00	1.58E 00	7.80E-09	2.85E-18	0.0	0.0
RH106	0.0	6.13E-01	4.43E-01	4.39E-01	4.34E-01	4.20E-01	3.98E-01
RH106M	0.0	3.45E-03	1.70E-05	2.09E-22	1.27E-41	0.0	0.0
RH107	0.0	1.00E 02	3.59E-12	0.0	0.0	0.0	0.0
RH108	0.0	3.95E 02	0.0	0.0	0.0	0.0	0.0
RH108M	0.0	2.70E 00	0.0	0.0	0.0	0.0	0.0
RH109	0.0	2.76E 02	0.0	0.0	0.0	0.0	0.0
RH109M	0.0	1.45E 02	0.0	0.0	0.0	0.0	0.0
RH110	0.0	1.52E 02	0.0	0.0	0.0	0.0	0.0
RH110M	0.0	9.46E 00	0.0	0.0	0.0	0.0	0.0
RH111	0.0	9.38E 01	0.0	0.0	0.0	0.0	0.0
RH112	0.0	4.89E 01	0.0	0.0	0.0	0.0	0.0
RH113	0.0	3.72E 01	0.0	0.0	0.0	0.0	0.0
RH114	0.0	2.24E 01	0.0	0.0	0.0	0.0	0.0
RH115	0.0	1.13E 01	0.0	0.0	0.0	0.0	0.0
RH116	0.0	5.09E 00	0.0	0.0	0.0	0.0	0.0
RH117	0.0	1.08E 01	0.0	0.0	0.0	0.0	0.0
RH118	0.0	6.02E-01	0.0	0.0	0.0	0.0	0.0
RH119	0.0	2.06E-01	0.0	0.0	0.0	0.0	0.0
RH120	0.0	1.23E-02	0.0	0.0	0.0	0.0	0.0
RH121	0.0	1.70E-03	0.0	0.0	0.0	0.0	0.0
RH122	0.0	2.21E-04	0.0	0.0	0.0	0.0	0.0
RH123	0.0	2.50E-05	0.0	0.0	0.0	0.0	0.0
PD104	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PD105	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PD106	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PD107	0.0	2.67E-06	2.67E-06	2.67E-06	2.67E-06	2.67E-06	2.67E-06
PD107M	0.0	4.21E-01	0.0	0.0	0.0	0.0	0.0
PD108	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PD109	0.0	8.17E-01	1.02E 00	1.85E-03	1.43E-06	6.58E-16	1.81E-31

TABLE IV (cont'd)

DECAY FOLLOWING BURST RIA-ST-1 5.8PC

POWER= 0.00MW, BURNUP= 4.MWD, FLUX= 2.32E 12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-1 1494.6 GRAMS UO2-5.8

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
PD109M	0.0	7.27E 01	0.0	0.0	0.0	0.0	0.0
PD110	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PD111	0.0	1.81E 01	1.93E-03	3.83E-10	9.25E-18	0.0	0.0
PD111M	0.0	2.03E-02	2.65E-03	5.26E-10	1.27E-17	0.0	0.0
PD112	0.0	2.47E-01	1.41E-01	2.06E-03	1.70E-05	9.49E-12	3.60E-22
PD113	0.0	4.60E 01	0.0	0.0	0.0	0.0	0.0
PD114	0.0	3.50E 01	0.0	0.0	0.0	0.0	0.0
PD115	0.0	3.25E 01	0.0	0.0	0.0	0.0	0.0
PD116	0.0	2.99E 01	0.0	0.0	0.0	0.0	0.0
PD117	0.0	3.20E 01	0.0	0.0	0.0	0.0	0.0
PD118	0.0	1.19E 01	0.0	0.0	0.0	0.0	0.0
PD119	0.0	8.91E 00	0.0	0.0	0.0	0.0	0.0
PD120	0.0	2.22E 00	0.0	0.0	0.0	0.0	0.0
PD121	0.0	6.54E-01	0.0	0.0	0.0	0.0	0.0
PD122	0.0	1.76E-01	0.0	0.0	0.0	0.0	0.0
PD123	0.0	4.15E-02	0.0	0.0	0.0	0.0	0.0
PD124	0.0	9.08E-03	0.0	0.0	0.0	0.0	0.0
PD125	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PD126	0.0	1.73E-04	0.0	0.0	0.0	0.0	0.0
AG107	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AG108	0.0	8.83E-06	2.10E-11	2.10E-11	2.10E-11	2.10E-11	2.10E-11
AG108M	0.0	2.73E-10	2.73E-10	2.73E-10	2.73E-10	2.73E-10	2.73E-10
AG109	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AG109M	0.0	8.67E-01	1.02E 00	1.86E-03	1.43E-06	1.62E-12	1.55E-12
AG110	0.0	6.23E-04	6.22E-04	6.13E-04	6.03E-04	5.75E-04	5.31E-04
AG110M	0.0	4.98E-01	0.0	0.0	0.0	0.0	0.0
AG111	0.0	2.86E-03	4.96E-02	3.09E-02	1.81E-02	3.59E-03	2.44E-04
AG111M	0.0	1.42E 01	2.59E-03	5.15E-10	1.24E-17	0.0	0.0
AG112	0.0	4.15E-03	1.59E-01	2.44E-03	2.01E-05	1.12E-11	4.26E-22
AG113	0.0	5.65E-01	8.60E-02	9.52E-09	1.19E-16	0.0	0.0
AG113M	0.0	4.46E 00	0.0	0.0	0.0	0.0	0.0
AG114	0.0	3.56E 01	0.0	0.0	0.0	0.0	0.0
AG115	0.0	5.34E 00	2.65E-14	0.0	0.0	0.0	0.0
AG115M	0.0	9.77E 00	0.0	0.0	0.0	0.0	0.0
AG116	0.0	1.53E 01	0.0	0.0	0.0	0.0	0.0
AG116M	0.0	1.76E 01	0.0	0.0	0.0	0.0	0.0
AG117	0.0	1.74E 01	0.0	0.0	0.0	0.0	0.0
AG117M	0.0	1.78E 01	0.0	0.0	0.0	0.0	0.0
AG118	0.0	2.89E 01	0.0	0.0	0.0	0.0	0.0
AG118M	0.0	1.32E 01	0.0	0.0	0.0	0.0	0.0
AG119	0.0	2.81E 01	0.0	0.0	0.0	0.0	0.0
AG120	0.0	1.77E 01	0.0	0.0	0.0	0.0	0.0
AG121	0.0	1.06E 01	0.0	0.0	0.0	0.0	0.0
AG122	0.0	5.75E 00	0.0	0.0	0.0	0.0	0.0
AG123	0.0	2.91E 00	0.0	0.0	0.0	0.0	0.0
AG124	0.0	1.39E 00	0.0	0.0	0.0	0.0	0.0
AG125	0.0	3.21E-01	0.0	0.0	0.0	0.0	0.0
AG126	0.0	1.37E-01	0.0	0.0	0.0	0.0	0.0
AG127	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AG128	0.0	6.98E-03	0.0	0.0	0.0	0.0	0.0
AG129	0.0	0.0	0.0	0.0	0.0	0.0	0.0
[illegible]	[illegible]	1.69E-12	1.69E-12	1.68E-12	1.66E-12	1.62E-12	1.55E-12

TABLE IV (cont'd)

DECAY FOLLOWING BURST RIA-ST-1 5.8PC

POWER= 0.00MW, BURNUP= 4.MWD, FLUX= 2.32E 12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-1 (494.6 GRAMS UO2-5

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
CD110	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CD111	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CD111M	0.0	1.40E-05	8.93E-12	0.0	0.0	0.0	0.0
CD112	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CD113	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CD113M	0.0	1.05E-03	1.05E-03	1.05E-03	1.05E-03	1.05E-03	1.05E-03
CD114	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CD115	0.0	1.59E-02	4.40E-02	8.99E-03	1.48E-03	6.64E-06	8.07E-10
CD115M	0.0	2.22E-04	4.23E-04	3.91E-04	3.57E-04	2.73E-04	1.74E-04
CD116	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CD117	0.0	7.19E-01	9.86E-03	6.52E-17	5.03E-33	0.0	0.0
CD117M	0.0	3.21E-01	1.17E-02	1.67E-13	7.98E-26	0.0	0.0
CD118	0.0	4.22E 00	4.29E-06	0.0	0.0	0.0	0.0
CD119	0.0	8.33E 00	0.0	0.0	0.0	0.0	0.0
CD119M	0.0	1.52E 01	0.0	0.0	0.0	0.0	0.0
CD120	0.0	3.76E 01	0.0	0.0	0.0	0.0	0.0
CD121	0.0	3.78E 01	0.0	0.0	0.0	0.0	0.0
CD122	0.0	3.60E 01	0.0	0.0	0.0	0.0	0.0
CD123	0.0	3.30E 01	0.0	0.0	0.0	0.0	0.0
CD124	0.0	3.40E 01	0.0	0.0	0.0	0.0	0.0
CD125	0.0	1.75E 01	0.0	0.0	0.0	0.0	0.0
CD126	0.0	2.04E 01	0.0	0.0	0.0	0.0	0.0
CD127	0.0	1.07E 01	0.0	0.0	0.0	0.0	0.0
CD128	0.0	5.28E 00	0.0	0.0	0.0	0.0	0.0
CD129	0.0	1.09E 00	0.0	0.0	0.0	0.0	0.0
CD130	0.0	2.59E 00	0.0	0.0	0.0	0.0	0.0
CD131	0.0	2.91E-01	0.0	0.0	0.0	0.0	0.0
CD132	0.0	2.68E-02	0.0	0.0	0.0	0.0	0.0
IN113	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IN113M	0.0	2.73E-10	2.54E-13	0.0	0.0	0.0	0.0
IN114	0.0	1.90E-03	3.98E-07	3.70E-07	3.41E-07	2.67E-07	1.78E-07
IN114M	0.0	4.16E-07	4.12E-07	3.84E-07	3.54E-07	2.77E-07	1.85E-07
IN115	0.0	1.41E-15	1.41E-15	1.41E-15	1.41E-15	1.41E-15	1.41E-15
IN115M	0.0	1.52E-04	4.35E-02	9.82E-03	1.62E-03	7.25E-06	8.81E-10
IN116	0.0	9.52E-01	0.0	0.0	0.0	0.0	0.0
IN116M	0.0	3.59E-01	9.77E-07	0.0	0.0	0.0	0.0
IN117	0.0	1.42E-02	2.77E-02	2.22E-13	1.06E-25	0.0	0.0
IN117M	0.0	1.82E-02	3.92E-02	1.72E-13	8.17E-26	0.0	0.0
IN118	0.0	1.90E 00	4.70E-06	0.0	0.0	0.0	0.0
IN118M	0.0	1.45E-02	0.0	0.0	0.0	0.0	0.0
IN119	0.0	5.60E 00	1.39E-17	0.0	0.0	0.0	0.0
IN119M	0.0	2.71E 00	2.39E-16	0.0	0.0	0.0	0.0
IN120	0.0	1.93E 01	0.0	0.0	0.0	0.0	0.0
IN120M	0.0	1.93E 01	0.0	0.0	0.0	0.0	0.0
IN121	0.0	3.25E 01	0.0	0.0	0.0	0.0	0.0
IN121M	0.0	7.53E 00	0.0	0.0	0.0	0.0	0.0
IN122	0.0	3.96E 01	0.0	0.0	0.0	0.0	0.0
IN122M	0.0	3.60E 00	0.0	0.0	0.0	0.0	0.0
IN123	0.0	3.26E 01	0.0	0.0	0.0	0.0	0.0
IN123M	0.0	1.46E 01	0.0	0.0	0.0	0.0	0.0
IN124	0.0	6.52E 01	0.0	0.0	0.0	0.0	0.0
IN125	0.0	3.07E 01	0.0	0.0	0.0	0.0	0.0

TABLE IV (cont'd)

DECAY FOLLOWING BURST RIA-ST-1 5.8PC

POWER= 0.00MW, BURNUP= 4.MWD, FLUX= 2.32E 12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-1 (494.6 GRAMS UO2-5.8

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
IN125M	0.0	2.38E 01	0.0	0.0	0.0	0.0	0.0
IN126	0.0	1.26E 02	0.0	0.0	0.0	0.0	0.0
IN127	0.0	7.22E 01	0.0	0.0	0.0	0.0	0.0
IN127M	0.0	7.22E 01	0.0	0.0	0.0	0.0	0.0
IN128	0.0	1.74E 02	0.0	0.0	0.0	0.0	0.0
IN129	0.0	1.18E 02	0.0	0.0	0.0	0.0	0.0
IN130	0.0	2.09E 02	0.0	0.0	0.0	0.0	0.0
IN131	0.0	6.94E 01	0.0	0.0	0.0	0.0	0.0
IN132	0.0	2.06E 01	0.0	0.0	0.0	0.0	0.0
IN133	0.0	1.37E 00	0.0	0.0	0.0	0.0	0.0
IN134	0.0	3.59E-02	0.0	0.0	0.0	0.0	0.0
SN114	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN115	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN116	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN117	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN117M	0.0	1.92E-07	1.86E-07	1.44E-07	1.08E-07	4.57E-08	1.09E-08
SN118	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN119	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN119M	0.0	2.70E-05	3.35E-05	3.31E-05	3.25E-05	3.10E-05	2.85E-05
SN120	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN121	0.0	1.19E-01	9.71E-02	4.09E-03	1.12E-04	2.29E-09	3.49E-17
SN121M	0.0	8.46E-06	8.46E-06	8.46E-06	8.46E-06	8.45E-06	8.44E-06
SN122	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN123	0.0	8.41E-04	8.90E-04	8.66E-04	8.39E-04	7.65E-04	6.54E-04
SN123M	0.0	3.03E 00	9.43E-08	0.0	0.0	0.0	0.0
SN124	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN125	0.0	1.88E-02	1.79E-02	1.24E-02	8.20E-03	2.35E-03	2.93E-04
SN125M	0.0	2.54E 01	0.0	0.0	0.0	0.0	0.0
SN126	0.0	4.20E-05	4.20E-05	4.20E-05	4.20E-05	4.20E-05	4.20E-05
SN127	0.0	1.22E 01	5.21E-02	2.12E-19	3.68E-39	0.0	0.0
SN127M	0.0	1.07E 02	0.0	0.0	0.0	0.0	0.0
SN128	0.0	9.58E 01	7.41E-04	0.0	0.0	0.0	0.0
SN129	0.0	3.44E 02	0.0	0.0	0.0	0.0	0.0
SN129M	0.0	9.48E 02	0.0	0.0	0.0	0.0	0.0
SN130	0.0	2.13E 03	0.0	0.0	0.0	0.0	0.0
SN131	0.0	2.76E 03	0.0	0.0	0.0	0.0	0.0
SN132	0.0	1.70E 03	0.0	0.0	0.0	0.0	0.0
SN133	0.0	4.96E 02	0.0	0.0	0.0	0.0	0.0
SN134	0.0	3.43E 01	0.0	0.0	0.0	0.0	0.0
SN135	0.0	4.22E 00	0.0	0.0	0.0	0.0	0.0
SN136	0.0	2.29E-01	0.0	0.0	0.0	0.0	0.0
SB121	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB122	0.0	3.16E-04	2.80E-04	7.62E-05	1.74E-05	2.06E-07	1.28E-10
SB122M	0.0	1.71E-02	0.0	0.0	0.0	0.0	0.0
SB123	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB124	0.0	1.93E-05	1.94E-05	1.83E-05	1.72E-05	1.40E-05	1.01E-05
SB124M	0.0	1.79E-02	0.0	0.0	0.0	0.0	0.0
SB125	0.0	1.52E-01	1.52E-01	1.51E-01	1.51E-01	1.49E-01	1.46E-01
SB126	0.0	9.15E-04	9.32E-04	7.02E-04	5.09E-04	1.96E-04	4.35E-05
SB126M	0.0	3.64E-01	4.20E-05	4.20E-05	4.20E-05	4.20E-05	4.20E-05
SB127	0.0	9.74E-02	4.12E-01	1.63E-01	5.66E-02	2.37E-03	1.19E-05
SB128	0.0	4.80E-01	1.33E-01	1.06E-05	2.35E-10	2.55E-24	0.0

TABLE IV (cont'd)

DECAY FOLLOWING BURST RIA-ST-1 5.8PC

POWER= 0.00MW, BURNUP= 4. MWD, FLUX= 2.32E 12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-1 (494.6 GRAMS UO2-5.

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
SB128M	0.0	3.65E 01	8.99E-04	0.0	0.0	0.0	0.0
SB129	0.0	2.51E 01	3.09E 00	9.84E-09	2.17E-18	0.0	0.0
SB130	0.0	4.70E 02	0.0	0.0	0.0	0.0	0.0
SB130M	0.0	3.08E 02	3.67E-06	0.0	0.0	0.0	0.0
SB131	0.0	1.56E 03	1.30E-10	0.0	0.0	0.0	0.0
SB132	0.0	4.34E 03	0.0	0.0	0.0	0.0	0.0
SB132M	0.0	2.34E 03	0.0	0.0	0.0	0.0	0.0
SB133	0.0	5.91E 03	0.0	0.0	0.0	0.0	0.0
SB134	0.0	7.18E 02	0.0	0.0	0.0	0.0	0.0
SB134M	0.0	6.84E 02	0.0	0.0	0.0	0.0	0.0
SB135	0.0	5.78E 02	0.0	0.0	0.0	0.0	0.0
SB136	0.0	9.06E 01	0.0	0.0	0.0	0.0	0.0
SB137	0.0	7.18E 00	0.0	0.0	0.0	0.0	0.0
SB138	0.0	5.78E-01	0.0	0.0	0.0	0.0	0.0
SB139	0.0	3.40E-02	0.0	0.0	0.0	0.0	0.0
TE122	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TE123	0.0	6.54E-20	6.54E-20	6.54E-20	6.54E-20	6.54E-20	6.54E-20
TE123M	0.0	1.26E-09	1.26E-09	1.22E-09	1.18E-09	1.07E-09	9.02E-10
TE124	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TE125	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TE125M	0.0	3.70E-02	3.70E-02	3.69E-02	3.67E-02	3.63E-02	3.56E-02
TE126	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TE127	0.0	1.56E-03	2.40E-01	1.54E-01	5.51E-02	4.39E-03	1.83E-03
TE127M	0.0	1.26E-05	2.87E-04	1.65E-03	2.17E-03	2.22E-03	1.86E-03
TE128	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TE129	0.0	3.70E 00	3.25E 00	3.53E-02	3.13E-02	2.18E-02	1.19E-02
TE129M	0.0	4.59E-03	5.78E-02	5.56E-02	4.93E-02	3.43E-02	1.88E-02
TE130	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TE131	0.0	2.31E 02	4.43E-01	2.61E-02	1.05E-03	6.79E-08	7.07E-15
TE131M	0.0	2.09E 00	2.43E 00	1.43E-01	5.75E-03	3.72E-07	3.87E-14
TE132	0.0	1.13E 01	1.34E 01	4.51E 00	1.31E 00	3.20E-02	6.53E-05
TE133	0.0	2.94E 03	5.27E-04	0.0	0.0	0.0	0.0
TE133M	0.0	8.69E 02	3.14E-03	0.0	0.0	0.0	0.0
TE134	0.0	2.50E 03	1.64E-04	0.0	0.0	0.0	0.0
TE135	0.0	9.50E 03	0.0	0.0	0.0	0.0	0.0
TE136	0.0	5.48E 03	0.0	0.0	0.0	0.0	0.0
TE137	0.0	1.21E 03	0.0	0.0	0.0	0.0	0.0
TE138	0.0	2.60E 02	0.0	0.0	0.0	0.0	0.0
TE139	0.0	4.20E 01	0.0	0.0	0.0	0.0	0.0
TE140	0.0	4.22E 00	0.0	0.0	0.0	0.0	0.0
TE141	0.0	1.62E-01	0.0	0.0	0.0	0.0	0.0
TE142	0.0	6.72E-03	0.0	0.0	0.0	0.0	0.0
I127	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I128	0.0	5.52E-01	4.75E-13	0.0	0.0	0.0	0.0
I129	0.0	2.99E-06	2.99E-06	2.99E-06	2.99E-06	2.99E-06	2.99E-06
I130	0.0	1.01E-02	4.76E-03	5.10E-06	2.13E-09	1.56E-19	2.00E-36
I130M	0.0	1.92E-01	0.0	0.0	0.0	0.0	0.0
I131	0.0	5.20E-02	3.64E 00	2.61E 00	1.60E 00	3.56E-01	2.93E-02
I132	0.0	3.05E 00	1.37E 01	4.64E 00	1.35E 00	3.30E-02	6.80E-05
I133	0.0	1.27E 01	5.41E 01	9.14E-01	8.86E-03	8.03E-09	6.83E-19
I133M	0.0	4.12E 02	0.0	0.0	0.0	0.0	0.0
I134	0.0	3.65E 02	1.84E-02	0.0	0.0	0.0	0.0

TABLE IV (cont'd)

DECAY FOLLOWING BURST RIA-ST-1 5.8PC

POWER= 0.00MW, BURNUP= 4.MWD, FLUX= 2.32E 12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-1 (494.6 GRAMS UO2-5.8W

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
I134M	0.0	1.08E 03	0.0	0.0	0.0	0.0	0.0
I135	0.0	2.63E 02	4.66E 01	1.18E-04	5.13E-11	4.24E-30	0.0
I136	0.0	8.43E 03	0.0	0.0	0.0	0.0	0.0
I136M	0.0	5.82E 03	0.0	0.0	0.0	0.0	0.0
I137	0.0	9.50E 03	0.0	0.0	0.0	0.0	0.0
I138	0.0	4.78E 03	0.0	0.0	0.0	0.0	0.0
I139	0.0	2.20E 03	0.0	0.0	0.0	0.0	0.0
I140	0.0	6.56E 02	0.0	0.0	0.0	0.0	0.0
I141	0.0	9.70E 01	0.0	0.0	0.0	0.0	0.0
I142	0.0	7.33E 00	0.0	0.0	0.0	0.0	0.0
I143	0.0	3.38E-01	0.0	0.0	0.0	0.0	0.0
I144	0.0	1.72E-02	0.0	0.0	0.0	0.0	0.0
I145	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE128	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE129	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE129M	0.0	3.06E-07	2.88E-07	1.85E-07	1.12E-07	2.48E-08	2.01E-09
XE130	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE131	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE131M	0.0	1.58E-06	1.01E-03	6.35E-03	8.60E-03	6.39E-03	1.73E-03
XE132	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE133	0.0	6.84E-03	5.51E 00	8.40E 00	4.30E 00	4.57E-01	1.02E-02
XE133M	0.0	2.04E-02	1.97E 00	1.31E 00	2.28E-01	1.03E-03	1.25E-07
XE134	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE134M	0.0	8.09E 01	0.0	0.0	0.0	0.0	0.0
XE135	0.0	4.38E 00	7.88E 01	1.86E-02	5.10E-07	1.00E-20	0.0
XE135M	0.0	1.80E-02	7.13E 00	1.80E-05	7.85E-12	6.49E-31	0.0
XE136	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE137	0.0	1.36E 04	0.0	0.0	0.0	0.0	0.0
XE138	0.0	6.04E 03	3.48E-18	0.0	0.0	0.0	0.0
XE139	0.0	1.50E 04	0.0	0.0	0.0	0.0	0.0
XE140	0.0	1.07E 04	0.0	0.0	0.0	0.0	0.0
XE141	0.0	3.52E 03	0.0	0.0	0.0	0.0	0.0
XE142	0.0	1.09E 03	0.0	0.0	0.0	0.0	0.0
XE143	0.0	1.52E 02	0.0	0.0	0.0	0.0	0.0
XE144	0.0	1.92E 01	0.0	0.0	0.0	0.0	0.0
XE145	0.0	5.83E-01	0.0	0.0	0.0	0.0	0.0
XE146	0.0	5.73E-02	0.0	0.0	0.0	0.0	0.0
XE147	0.0	3.11E-03	0.0	0.0	0.0	0.0	0.0
CS133	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CS134	0.0	2.88E-01	2.88E-01	2.87E-01	2.86E-01	2.81E-01	2.74E-01
CS134M	0.0	1.21E 00	2.24E-02	4.34E-15	1.56E-29	0.0	0.0
CS135	0.0	6.25E-05	6.25E-05	6.26E-05	6.26E-05	6.26E-05	6.26E-05
CS135M	0.0	2.96E-01	6.03E-07	0.0	0.0	0.0	0.0
CS136	0.0	1.89E-02	1.82E-02	1.39E-02	1.02E-02	4.03E-03	8.60E-04
CS137	0.0	1.24E 01	1.24E 01	1.24E 01	1.24E 01	1.24E 01	1.23E 01
CS138	0.0	6.92E 02	2.35E-06	0.0	0.0	0.0	0.0
CS138M	0.0	6.60E 02	0.0	0.0	0.0	0.0	0.0
CS139	0.0	7.84E 03	0.0	0.0	0.0	0.0	0.0
CS140	0.0	1.68E 04	0.0	0.0	0.0	0.0	0.0
CS141	0.0	1.29E 04	0.0	0.0	0.0	0.0	0.0
CS142	0.0	8.18E 03	0.0	0.0	0.0	0.0	0.0
CS143	0.0	4.46E 03	0.0	0.0	0.0	0.0	0.0

TABLE IV (cont'd)

DECAY FOLLOWING BURST RIA-ST-1 5.8PC

POWER= 0.00MW, BURNUP= 4.MWD, FLUX= 2.32E 12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-1 (494.6 GRAMS UO2-5.

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
CS144	0.0	8.55E 02	0.0	0.0	0.0	0.0	0.0
CS145	0.0	2.05E 02	0.0	0.0	0.0	0.0	0.0
CS146	0.0	2.32E 01	0.0	0.0	0.0	0.0	0.0
CS147	0.0	2.33E 00	0.0	0.0	0.0	0.0	0.0
CS148	0.0	9.52E-02	0.0	0.0	0.0	0.0	0.0
CS149	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CS150	0.0	5.81E-05	0.0	0.0	0.0	0.0	0.0
BA134	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BA135	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BA135M	0.0	3.71E-05	2.48E-05	1.28E-06	4.46E-08	1.86E-12	9.31E-20
BA136	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BA136M	0.0	3.03E-03	2.92E-03	2.22E-03	1.63E-03	6.45E-04	1.38E-04
BA137	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BA137M	0.0	1.25E 01	1.17E 01	1.17E 01	1.17E 01	1.17E 01	1.17E 01
BA138	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BA139	0.0	3.07E 02	3.43E-01	0.0	0.0	0.0	0.0
BA140	0.0	4.67E 00	5.56E 00	4.22E 00	3.08E 00	1.20E 00	2.49E-01
BA141	0.0	4.39E 03	1.54E-13	0.0	0.0	0.0	0.0
BA142	0.0	7.05E 03	0.0	0.0	0.0	0.0	0.0
BA143	0.0	1.55E 04	0.0	0.0	0.0	0.0	0.0
BA144	0.0	1.24E 04	0.0	0.0	0.0	0.0	0.0
BA145	0.0	5.77E 03	0.0	0.0	0.0	0.0	0.0
BA146	0.0	1.94E 03	0.0	0.0	0.0	0.0	0.0
BA147	0.0	3.86E 02	0.0	0.0	0.0	0.0	0.0
BA148	0.0	4.80E 01	0.0	0.0	0.0	0.0	0.0
BA149	0.0	3.41E 00	0.0	0.0	0.0	0.0	0.0
BA150	0.0	1.88E-01	0.0	0.0	0.0	0.0	0.0
BA151	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BA152	0.0	2.77E-04	0.0	0.0	0.0	0.0	0.0
LA138	0.0	4.09E-14	4.09E-14	4.09E-14	4.09E-14	4.09E-14	4.09E-14
LA139	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LA140	0.0	1.96E-01	1.56E 00	4.27E 00	3.49E 00	1.38E 00	2.87E-01
LA141	0.0	5.80E 01	2.31E 01	6.84E-09	1.02E-19	0.0	0.0
LA142	0.0	2.52E 02	6.41E-01	0.0	0.0	0.0	0.0
LA143	0.0	5.61E 03	1.67E-18	0.0	0.0	0.0	0.0
LA144	0.0	1.57E 04	0.0	0.0	0.0	0.0	0.0
LA145	0.0	1.08E 04	0.0	0.0	0.0	0.0	0.0
LA146	0.0	6.71E 03	0.0	0.0	0.0	0.0	0.0
LA147	0.0	3.13E 03	0.0	0.0	0.0	0.0	0.0
LA148	0.0	1.05E 03	0.0	0.0	0.0	0.0	0.0
LA149	0.0	2.14E 02	0.0	0.0	0.0	0.0	0.0
LA150	0.0	3.15E 01	0.0	0.0	0.0	0.0	0.0
LA151	0.0	2.92E 00	0.0	0.0	0.0	0.0	0.0
LA152	0.0	2.14E-01	0.0	0.0	0.0	0.0	0.0
LA153	0.0	1.39E-02	0.0	0.0	0.0	0.0	0.0
LA154	0.0	5.62E-04	0.0	0.0	0.0	0.0	0.0
LA155	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CE140	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CE141	0.0	3.00E-03	2.14E 00	2.02E 00	1.79E 00	1.23E 00	6.66E-01
CE142	0.0	3.91E-09	3.91E-09	3.91E-09	3.91E-09	3.91E-09	3.91E-09
CE143	0.0	8.94E 00	3.57E 01	2.73E 00	1.47E-01	2.28E-05	1.02E-11
CE144	0.0	1.75E 00	1.78E 00	1.76E 00	1.73E 00	1.66E 00	1.55E 00

TABLE IV (cont'd)

DECAY FOLLOWING BURST RIA-ST-1 5.8PC

POWER= 0.00MW, BURNUP= 4.MWD, FLUX= 2.32E 12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-1 1494.6 GRAMS UO2-5.

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
CE145	0.0	8.64E 03	0.0	0.0	0.0	0.0	0.0
CE146	0.0	2.85E 03	1.67E-18	0.0	0.0	0.0	0.0
CE147	0.0	6.38E 03	0.0	0.0	0.0	0.0	0.0
CE148	0.0	4.51E 03	0.0	0.0	0.0	0.0	0.0
CE149	0.0	2.32E 03	0.0	0.0	0.0	0.0	0.0
CE150	0.0	8.86E 02	0.0	0.0	0.0	0.0	0.0
CE151	0.0	2.28E 02	0.0	0.0	0.0	0.0	0.0
CE152	0.0	4.19E 01	0.0	0.0	0.0	0.0	0.0
CE153	0.0	4.69E 00	0.0	0.0	0.0	0.0	0.0
CE154	0.0	3.79E-01	0.0	0.0	0.0	0.0	0.0
CE155	0.0	2.98E-02	0.0	0.0	0.0	0.0	0.0
CE156	0.0	2.30E-03	0.0	0.0	0.0	0.0	0.0
CE157	0.0	1.75E-04	0.0	0.0	0.0	0.0	0.0
PR141	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PR142	0.0	3.90E-01	2.13E-01	2.54E-03	1.65E-05	3.91E-09	3.91E-09
PR142M	0.0	3.27E-05	7.16E-26	0.0	0.0	0.0	0.0
PR143	0.0	9.18E-04	1.49E 00	3.95E 00	3.15E 00	1.30E 00	2.96E-01
PR144	0.0	1.66E 00	1.78E 00	1.76E 00	1.73E 00	1.66E 00	1.55E 00
PR144M	0.0	7.99E-02	2.14E-02	2.11E-02	2.08E-02	1.99E-02	1.86E-02
PR145	0.0	8.76E 01	2.66E 01	1.82E-05	1.80E-12	1.74E-33	0.0
PR146	0.0	3.38E 02	1.54E-09	0.0	0.0	0.0	0.0
PR147	0.0	2.08E 03	0.0	0.0	0.0	0.0	0.0
PR148	0.0	4.18E 03	0.0	0.0	0.0	0.0	0.0
PR149	0.0	2.93E 03	0.0	0.0	0.0	0.0	0.0
PR150	0.0	1.81E 03	0.0	0.0	0.0	0.0	0.0
PR151	0.0	9.13E 02	0.0	0.0	0.0	0.0	0.0
PR152	0.0	3.69E 02	0.0	0.0	0.0	0.0	0.0
PR153	0.0	9.87E 01	0.0	0.0	0.0	0.0	0.0
PR154	0.0	1.81E 01	0.0	0.0	0.0	0.0	0.0
PR155	0.0	2.45E 00	0.0	0.0	0.0	0.0	0.0
PR156	0.0	2.63E-01	0.0	0.0	0.0	0.0	0.0
PR157	0.0	3.06E-02	0.0	0.0	0.0	0.0	0.0
PR158	0.0	2.40E-03	0.0	0.0	0.0	0.0	0.0
PR159	0.0	9.27E-05	0.0	0.0	0.0	0.0	0.0
ND142	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ND143	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ND144	0.0	1.88E-13	1.88E-13	1.88E-13	1.88E-13	1.88E-13	1.88E-13
ND145	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ND146	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ND147	0.0	3.55E-01	2.33E 00	1.69E 00	1.17E 00	3.92E-01	6.29E-02
ND148	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ND149	0.0	1.12E 02	2.22E-01	1.09E-22	0.0	0.0	0.0
ND150	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ND151	0.0	4.78E 02	0.0	0.0	0.0	0.0	0.0
ND152	0.0	3.22E 02	0.0	0.0	0.0	0.0	0.0
ND153	0.0	4.57E 02	0.0	0.0	0.0	0.0	0.0
ND154	0.0	9.40E-02	8.84E-02	5.60E-02	3.36E-02	7.00E-03	5.21E-04
ND155	0.0	5.66E 01	0.0	0.0	0.0	0.0	0.0
ND156	0.0	1.27E 01	0.0	0.0	0.0	0.0	0.0
ND157	0.0	2.31E 00	0.0	0.0	0.0	0.0	0.0
ND158	0.0	3.20E-01	0.0	0.0	0.0	0.0	0.0
ND159	0.0	2.60E-02	0.0	0.0	0.0	0.0	0.0

TABLE IV (cont'd)

DECAY FOLLOWING BURST RIA-ST-1 5.8PC

POWER= 0.00MW, BURNUP= 4.MWD, FLUX= 2.32E 12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-1 1494.6 GRAMS UO2-5.8%

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
ND160	0.0	3.69E-03	0.0	0.0	0.0	0.0	0.0
ND161	0.0	1.56E-04	0.0	0.0	0.0	0.0	0.0
PM147	0.0	9.73E 00	9.72E 00	9.69E 00	9.66E 00	9.55E 00	9.35E 00
PM148	0.0	6.79E-02	6.21E-02	3.24E-02	1.55E-02	1.93E-03	2.43E-04
PM148M	0.0	7.88E-03	7.79E-03	7.15E-03	6.49E-03	4.84E-03	2.98E-03
PM149	0.0	8.06E-02	4.91E 00	9.95E-01	1.62E-01	6.97E-04	7.93E-08
PM150	0.0	6.22E-02	8.28E-04	1.45E-17	3.39E-33	0.0	0.0
PM151	0.0	8.85E-01	2.95E 00	1.48E-01	4.95E-03	1.85E-07	7.75E-15
PM152	0.0	1.68E 02	0.0	0.0	0.0	0.0	0.0
PM152M	0.0	6.82E 00	0.0	0.0	0.0	0.0	0.0
PM153	0.0	2.95E 02	0.0	0.0	0.0	0.0	0.0
PM154	0.0	3.18E 01	8.84E-02	5.60E-02	3.33E-02	7.00E-03	5.21E-04
PM154M	0.0	3.23E 01	0.0	0.0	0.0	0.0	0.0
PM155	0.0	1.10E 02	0.0	0.0	0.0	0.0	0.0
PM156	0.0	4.27E 01	0.0	0.0	0.0	0.0	0.0
PM157	0.0	1.51E 01	0.0	0.0	0.0	0.0	0.0
PM158	0.0	4.30E 00	0.0	0.0	0.0	0.0	0.0
PM159	0.0	7.25E-01	0.0	0.0	0.0	0.0	0.0
PM160	0.0	1.68E-01	0.0	0.0	0.0	0.0	0.0
PM161	0.0	1.09E-02	0.0	0.0	0.0	0.0	0.0
PM162	0.0	2.67E-04	0.0	0.0	0.0	0.0	0.0
SM147	0.0	1.16E-09	1.16E-09	1.16E-09	1.16E-09	1.17E-09	1.17E-09
SM148	0.0	8.27E-16	8.27E-16	8.27E-16	8.28E-16	8.28E-16	8.28E-16
SM149	0.0	6.26E-16	6.27E-16	6.29E-16	6.30E-16	6.30E-16	6.30E-16
SM150	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SM151	0.0	2.45E-01	2.45E-01	2.46E-01	2.46E-01	2.45E-01	2.45E-01
SM152	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SM153	0.0	6.22E-01	1.08E 00	1.75E-01	2.22E-02	4.55E-05	1.49E-09
SM154	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SM155	0.0	2.40E 01	7.32E-13	0.0	0.0	0.0	0.0
SM156	0.0	5.45E-01	1.70E-01	2.04E-05	7.12E-10	3.04E-23	0.0
SM157	0.0	1.41E 01	0.0	0.0	0.0	0.0	0.0
SM158	0.0	1.77E 00	2.46E-07	0.0	0.0	0.0	0.0
SM159	0.0	4.43E 00	0.0	0.0	0.0	0.0	0.0
SM160	0.0	1.10E 00	0.0	0.0	0.0	0.0	0.0
SM161	0.0	3.49E-01	0.0	0.0	0.0	0.0	0.0
SM162	0.0	3.16E-02	0.0	0.0	0.0	0.0	0.0
SM163	0.0	2.42E-03	0.0	0.0	0.0	0.0	0.0
SM164	0.0	1.26E-04	0.0	0.0	0.0	0.0	0.0
SM165	0.0	5.83E-06	0.0	0.0	0.0	0.0	0.0
EU151	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EU152	0.0	4.07E-03	4.07E-03	4.06E-03	4.06E-03	4.05E-03	4.03E-03
EU152M	0.0	5.04E-01	1.45E-01	1.58E-05	4.93E-10	1.51E-23	0.0
EU153	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EU154	0.0	5.01E-02	5.01E-02	5.01E-02	5.00E-02	4.98E-02	4.95E-02
EU155	0.0	5.65E-02	5.67E-02	5.66E-02	5.65E-02	5.61E-02	5.55E-02
EU156	0.0	1.46E-02	2.46E-02	2.31E-02	1.77E-02	8.01E-03	2.14E-03
EU157	0.0	4.94E-02	9.01E-02	3.39E-04	6.04E-07	3.26E-15	5.40E-29
EU158	0.0	2.36E-01	5.34E-06	0.0	0.0	0.0	0.0
EU159	0.0	1.16E 00	4.21E-17	0.0	0.0	0.0	0.0
EU160	0.0	1.77E 00	0.0	0.0	0.0	0.0	0.0
EU161	0.0	9.91E-01	0.0	0.0	0.0	0.0	0.0

TABLE IV (cont'd)

DECAY FOLLOWING BURST RIA-ST-1 5.8PC

POWER= 0.00MW, BURNUP= 4.MWD, FLUX= 2.32E 12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-1 (494.6 GRAMS UO2-5.8

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
EU162	0.0	1.61E-01	0.0	0.0	0.0	0.0	0.0
EU163	0.0	4.27E-02	0.0	0.0	0.0	0.0	0.0
EU164	0.0	5.60E-03	0.0	0.0	0.0	0.0	0.0
EU165	0.0	6.06E-04	0.0	0.0	0.0	0.0	0.0
GD152	0.0	4.89E-16	4.92E-16	4.93E-16	4.93E-16	4.93E-16	4.94E-16
GD153	0.0	5.73E-06	5.72E-06	5.64E-06	5.55E-06	5.27E-06	4.85E-06
GD154	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GD155	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GD156	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GD157	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GD158	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GD159	0.0	3.23E-03	1.79E-02	1.87E-04	1.04E-06	1.83E-13	1.00E-24
GD160	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GD161	0.0	7.30E-01	0.0	0.0	0.0	0.0	0.0
GD162	0.0	1.45E-01	0.0	0.0	0.0	0.0	0.0
GD163	0.0	1.60E-01	0.0	0.0	0.0	0.0	0.0
GD164	0.0	1.16E-02	1.42E-16	0.0	0.0	0.0	0.0
GD165	0.0	1.27E-02	0.0	0.0	0.0	0.0	0.0
TB159	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TB160	0.0	8.15E-06	8.09E-06	7.71E-06	7.29E-06	6.17E-06	4.67E-06
TB161	0.0	2.63E-04	5.64E-04	3.38E-04	1.89E-04	3.31E-05	1.82E-06
TB162	0.0	4.56E-02	0.0	0.0	0.0	0.0	0.0
TB162M	0.0	2.86E-04	3.58E-06	1.05E-22	1.72E-41	0.0	0.0
TB163	0.0	3.56E-02	1.70E-17	0.0	0.0	0.0	0.0
TB163M	0.0	1.62E-10	0.0	0.0	0.0	0.0	0.0
TB164	0.0	1.96E-02	1.65E-16	0.0	0.0	0.0	0.0
TB165	0.0	2.37E-02	0.0	0.0	0.0	0.0	0.0
DY160	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DY161	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DY162	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DY163	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DY164	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DY165	0.0	1.70E-03	1.62E-05	3.32E-21	4.95E-39	0.0	0.0
DY165M	0.0	3.32E-02	0.0	0.0	0.0	0.0	0.0
DY166	0.0	3.23E-06	2.80E-06	9.89E-07	3.03E-07	8.69E-09	2.34E-11
HO165	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HO166	0.0	4.07E-06	3.69E-06	1.45E-06	4.51E-07	1.30E-08	3.49E-11
HO166M	0.0	3.16E-10	3.16E-10	3.16E-10	3.16E-10	3.16E-10	3.16E-10
ER166	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ER167	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ER167M	0.0	1.91E-07	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	8.01E 05	8.28E 02	1.26E 02	9.40E 01	7.45E 01	6.80E 01

TABLE V

FISSION PRODUCT INVENTORY FOR RIA ST-2

The column headed by DISCHARGE refers to the time immediately following the burst. The other column headings are times after the burst. The calculation was made on the basis of an energy deposition rate in the test of 200 MeV/fission.

TABLE V (cont'd)

DECAY FOLLOWING BURST-RIA-ST-2

POWER= 0.34MW, BURNUP= 0.MWD, FLUX= 5.13E 14N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-2(494.7 GRAMS-5.779WT%

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
H 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO 72	0.0	8.52E-04	0.0	0.0	0.0	0.0	0.0
CO 73	0.0	5.08E-05	0.0	0.0	0.0	0.0	0.0
CO 74	0.0	1.26E-04	0.0	0.0	0.0	0.0	0.0
CO 75	0.0	2.15E-05	0.0	0.0	0.0	0.0	0.0
NI 72	0.0	7.30E-03	8.56E-18	0.0	0.0	0.0	0.0
NI 73	0.0	1.19E-02	0.0	0.0	0.0	0.0	0.0
NI 74	0.0	2.63E-02	0.0	0.0	0.0	0.0	0.0
NI 75	0.0	2.10E-02	0.0	0.0	0.0	0.0	0.0
NI 76	0.0	6.68E-03	0.0	0.0	0.0	0.0	0.0
NI 77	0.0	9.71E-04	0.0	0.0	0.0	0.0	0.0
NI 78	0.0	1.33E-04	0.0	0.0	0.0	0.0	0.0
CU 72	0.0	4.28E-03	8.85E-09	0.0	0.0	0.0	0.0
CU 73	0.0	2.04E-02	1.54E-11	0.0	0.0	0.0	0.0
CU 74	0.0	2.71E-01	0.0	0.0	0.0	0.0	0.0
CU 75	0.0	3.52E-01	0.0	0.0	0.0	0.0	0.0
CU 76	0.0	3.83E-01	0.0	0.0	0.0	0.0	0.0
CU 77	0.0	2.27E-01	0.0	0.0	0.0	0.0	0.0
CU 78	0.0	1.13E-01	0.0	0.0	0.0	0.0	0.0
CU 79	0.0	1.36E-02	0.0	0.0	0.0	0.0	0.0
CU 80	0.0	2.03E-03	0.0	0.0	0.0	0.0	0.0
CU 81	0.0	1.12E-04	0.0	0.0	0.0	0.0	0.0
ZN 72	0.0	3.92E-08	2.99E-07	2.98E-07	2.96E-07	2.93E-07	2.87E-07
ZN 73	0.0	5.07E-03	2.74E-04	1.46E-15	2.27E-28	0.0	0.0
ZN 74	0.0	5.13E-03	2.95E-03	5.83E-06	4.94E-09	3.01E-18	1.32E-33
ZN 75	0.0	1.84E-01	2.11E-05	0.0	0.0	0.0	0.0
ZN 76	0.0	8.54E-01	1.80E-07	0.0	0.0	0.0	0.0
ZN 77	0.0	3.10E 00	0.0	0.0	0.0	0.0	0.0
ZN 78	0.0	2.67E 00	3.60E-15	0.0	0.0	0.0	0.0
ZN 79	0.0	3.62E 00	0.0	0.0	0.0	0.0	0.0
ZN 80	0.0	1.32E 00	0.0	0.0	0.0	0.0	0.0
ZN 81	0.0	3.75E-01	0.0	0.0	0.0	0.0	0.0
ZN 82	0.0	3.84E-02	0.0	0.0	0.0	0.0	0.0
ZN 83	0.0	3.01E-03	0.0	0.0	0.0	0.0	0.0
GA 72	0.0	6.60E-10	1.15E-09	4.70E-09	8.66E-09	2.01E-08	3.79E-08
GA 73	0.0	4.40E-07	1.27E-05	1.26E-05	1.21E-05	1.07E-05	8.82E-06
GA 74	0.0	4.98E-05	7.56E-04	4.30E-04	1.05E-04	1.54E-06	1.34E-09
GA 75	0.0	2.80E-03	1.02E-02	4.87E-05	1.12E-07	1.34E-15	8.37E-29
GA 76	0.0	8.47E-02	1.41E-02	2.36E-12	1.84E-23	0.0	0.0
GA 77	0.0	7.61E-01	1.92E-03	8.05E-24	0.0	0.0	0.0
GA 78	0.0	4.96E 00	3.22E-07	0.0	0.0	0.0	0.0
GA 79	0.0	9.07E 00	2.25E-12	0.0	0.0	0.0	0.0
GA 80	0.0	2.02E 01	1.19E-20	0.0	0.0	0.0	0.0
GA 81	0.0	2.07E 01	0.0	0.0	0.0	0.0	0.0
GA 82	0.0	1.09E 01	0.0	0.0	0.0	0.0	0.0
GA 83	0.0	2.73E 00	0.0	0.0	0.0	0.0	0.0
GA 84	0.0	1.40E-01	0.0	0.0	0.0	0.0	0.0
GA 85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GE 72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GE 73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GE 73M	0.0	2.10E-05	1.27E-05	1.26E-05	1.21E-05	1.07E-05	8.82E-06
	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE V (cont'd)

DECAY FOLLOWING BURST-RIA-ST-2

POWER= 0.34MW, BURNUP= 0.MWD, FLUX= 5.13E 14N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-21494.7 GRAMS-5.779WT%

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
GE 75	0.0	7.64E-07	2.47E-04	4.34E-04	3.78E-04	2.49E-04	1.24E-04
GE 75M	0.0	5.98E-05	4.56E-04	3.41E-06	7.81E-09	9.36E-17	5.87E-30
GE 76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GE 77	0.0	3.21E-05	1.28E-04	1.46E-04	1.44E-04	1.36E-04	1.25E-04
GE 77M	0.0	1.86E-02	7.18E-02	9.57E-07	2.73E-12	6.39E-29	0.0
GE 78	0.0	4.17E-04	6.23E-03	5.54E-03	4.85E-03	3.26E-03	1.68E-03
GE 79	0.0	1.24E 00	2.77E-01	1.91E-07	1.91E-14	1.90E-35	0.0
GE 80	0.0	7.43E 00	2.82E-01	2.58E-12	7.40E-25	0.0	0.0
GE 81	0.0	2.58E 01	7.26E-03	0.0	0.0	0.0	0.0
GE 82	0.0	5.41E 01	7.64E-07	0.0	0.0	0.0	0.0
GE 83	0.0	8.68E 01	8.45E-18	0.0	0.0	0.0	0.0
GE 84	0.0	2.10E 01	0.0	0.0	0.0	0.0	0.0
GE 85	0.0	1.73E 01	0.0	0.0	0.0	0.0	0.0
GE 86	0.0	3.13E 00	0.0	0.0	0.0	0.0	0.0
GE 87	0.0	5.78E-01	0.0	0.0	0.0	0.0	0.0
GE 88	0.0	6.00E-03	0.0	0.0	0.0	0.0	0.0
AS 75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AS 76	0.0	2.84E-09	2.84E-09	2.82E-09	2.80E-09	2.74E-09	2.64E-09
AS 77	0.0	2.18E-07	5.76E-05	8.01E-05	8.04E-05	8.13E-05	8.25E-05
AS 78	0.0	7.72E-05	1.71E-04	7.74E-04	1.30E-03	2.14E-03	2.22E-03
AS 78M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AS 79	0.0	3.97E-02	1.52E-01	5.70E-02	1.58E-02	3.36E-04	5.57E-07
AS 80	0.0	1.90E 00	7.27E-01	8.26E-12	2.37E-24	0.0	0.0
AS 81	0.0	3.95E 00	1.23E 00	6.47E-09	2.53E-18	0.0	0.0
AS 82	0.0	9.57E 00	3.39E-01	3.87E-15	5.54E-31	0.0	0.0
AS 82M	0.0	1.21E 01	2.36E-02	2.85E-22	0.0	0.0	0.0
AS 83	0.0	4.93E 01	1.33E-01	3.18E-21	0.0	0.0	0.0
AS 84	0.0	9.61E 01	6.00E-05	0.0	0.0	0.0	0.0
AS 85	0.0	1.70E 02	2.77E-16	0.0	0.0	0.0	0.0
AS 86	0.0	1.80E 02	0.0	0.0	0.0	0.0	0.0
AS 87	0.0	1.84E 02	0.0	0.0	0.0	0.0	0.0
AS 88	0.0	7.29E 00	0.0	0.0	0.0	0.0	0.0
AS 89	0.0	5.85E-01	0.0	0.0	0.0	0.0	0.0
AS 90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE 76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE 77M	0.0	1.99E-07	1.46E-07	2.40E-07	2.41E-07	2.44E-07	2.48E-07
SE 78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE 79	0.0	7.94E-15	6.63E-13	2.71E-11	4.40E-11	5.11E-11	5.12E-11
SE 79M	0.0	1.28E-04	3.61E-02	8.02E-02	2.68E-02	5.95E-04	9.74E-07
SE 80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE 81	0.0	5.18E-03	4.23E-01	2.67E-01	1.44E-01	2.38E-02	1.80E-03
SE 81M	0.0	4.33E-03	4.22E-03	3.54E-03	2.89E-03	1.58E-03	5.76E-04
SE 82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE 83	0.0	6.94E-02	2.82E-01	1.80E-01	1.08E-01	2.31E-02	1.77E-03
SE 83M	0.0	1.92E 00	3.53E 00	5.83E-04	2.92E-08	3.66E-21	1.15E-42
SE 84	0.0	6.70E 00	6.39E 00	2.94E-01	8.86E-03	2.43E-07	6.09E-15
SE 85	0.0	2.51E 01	4.09E 00	6.60E-07	1.26E-14	0.0	0.0
SE 85M	0.0	4.78E 01	6.00E-01	6.85E-15	9.81E-31	0.0	0.0
SE 86	0.0	1.45E 02	1.04E 00	1.14E-16	8.39E-35	0.0	0.0
SE 87	0.0	3.32E 02	1.21E-04	0.0	0.0	0.0	0.0
SE 88	0.0	3.68E 02	0.0	0.0	0.0	0.0	0.0

TABLE V (cont'd)

DECAY FOLLOWING BURST-RIA-ST-2

POWER= 0.34MW, BURNUP= 0.MWD, FLUX= 5.13E 14N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-21494.7 GRAMS-5.779WT%

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
SE 89	0.0	2.12E 02	0.0	0.0	0.0	0.0	0.0
SE 90	0.0	7.04E 01	0.0	0.0	0.0	0.0	0.0
SE 91	0.0	9.90E 00	0.0	0.0	0.0	0.0	0.0
SE 92	0.0	1.40E-01	0.0	0.0	0.0	0.0	0.0
SE 93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BR 79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BR 79M	0.0	5.54E-07	2.04E-14	0.0	0.0	0.0	0.0
BR 80	0.0	8.03E-07	7.44E-07	4.32E-07	2.40E-07	6.12E-08	2.81E-08
BR 80M	0.0	3.92E-08	3.90E-08	3.75E-08	3.59E-08	3.15E-08	2.54E-08
BR 81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BR 82	0.0	8.45E-07	1.07E-06	1.77E-06	1.90E-06	1.89E-06	1.84E-06
BR 82M	0.0	3.91E-04	3.11E-04	5.88E-05	8.85E-06	3.03E-08	2.34E-12
BR 83	0.0	9.64E-04	5.35E-02	9.23E-02	9.60E-02	8.69E-02	6.07E-02
BR 84	0.0	2.03E-02	3.58E-01	7.64E-01	5.54E-01	1.87E-01	3.03E-02
BR 84M	0.0	1.07E-01	8.53E-02	1.57E-02	2.28E-03	7.10E-06	4.68E-10
BR 85	0.0	2.15E 00	9.94E 00	3.25E-01	5.80E-03	3.30E-08	6.00E-17
BR 86	0.0	1.11E 01	9.64E 00	1.51E-04	5.06E-10	1.93E-26	0.0
BR 86M	0.0	1.31E 02	7.12E-01	7.84E-17	5.76E-35	0.0	0.0
BR 87	0.0	4.46E 01	1.87E 01	3.34E-04	1.34E-09	8.79E-26	0.0
BR 88	0.0	2.78E 02	1.70E 00	3.70E-17	4.32E-36	0.0	0.0
BR 89	0.0	7.90E 02	7.62E-06	0.0	0.0	0.0	0.0
BR 90	0.0	1.35E 03	0.0	0.0	0.0	0.0	0.0
BR 91	0.0	8.46E 02	0.0	0.0	0.0	0.0	0.0
BR 92	0.0	4.93E 01	0.0	0.0	0.0	0.0	0.0
BR 93	0.0	1.47E 01	0.0	0.0	0.0	0.0	0.0
BR 94	0.0	9.61E-01	0.0	0.0	0.0	0.0	0.0
BR 95	0.0	2.03E-02	0.0	0.0	0.0	0.0	0.0
BR 96	0.0	1.13E-03	0.0	0.0	0.0	0.0	0.0
KR 80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KR 81	0.0	2.71E-19	5.40E-19	5.40E-19	5.40E-19	5.40E-19	5.40E-19
KR 81M	0.0	1.34E-07	2.59E-10	3.13E-30	0.0	0.0	0.0
KR 82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KR 83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KR 83M	0.0	1.30E-06	3.52E-04	8.00E-03	1.65E-02	3.68E-02	5.12E-02
KR 84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KR 85	0.0	1.38E-08	1.50E-08	6.56E-08	1.34E-07	3.24E-07	5.92E-07
KR 85M	0.0	1.96E-03	4.78E-02	1.59E-01	1.56E-01	1.37E-01	1.10E-01
KR 86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KR 87	0.0	1.57E-01	9.30E-01	1.02E 00	8.73E-01	5.53E-01	2.59E-01
KR 88	0.0	2.23E-01	7.14E-01	6.75E-01	6.30E-01	5.12E-01	3.63E-01
KR 89	0.0	3.03E 01	3.23E 01	1.29E 00	3.34E-02	5.76E-07	6.64E-15
KR 90	0.0	2.25E 02	2.26E 01	1.42E-07	6.80E-17	0.0	0.0
KR 91	0.0	7.28E 02	5.57E-02	0.0	0.0	0.0	0.0
KR 92	0.0	1.41E 03	3.31E-17	0.0	0.0	0.0	0.0
KR 93	0.0	6.59E 02	0.0	0.0	0.0	0.0	0.0
KR 94	0.0	6.64E 02	0.0	0.0	0.0	0.0	0.0
KR 95	0.0	1.87E 01	0.0	0.0	0.0	0.0	0.0
KR 96	0.0	3.83E 00	0.0	0.0	0.0	0.0	0.0
KR 97	0.0	8.49E-02	0.0	0.0	0.0	0.0	0.0
KR 98	0.0	1.45E-02	0.0	0.0	0.0	0.0	0.0
RB 85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RB 86	0.0	2.39E-08	7.62E-08	9.42E-08	9.42E-08	9.40E-08	9.38E-08

TABLE V (cont'd)

DECAY FOLLOWING BURST-RIA-ST-2

POWER= 0.34MW, BURNUP= 0.MWD, FLUX= 5.13E 14N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-2 1494.7 GRAMS-5.779WT%

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
RB 86M	0.0	1.85E-03	4.75E-04	2.19E-08	2.58E-13	4.22E-28	0.0
RB 87	0.0	3.57E-18	3.94E-17	4.87E-16	9.28E-16	1.91E-15	2.82E-15
RB 88	0.0	6.09E-02	1.04E-01	3.61E-01	4.99E-01	5.44E-01	4.05E-01
RB 89	0.0	3.77E-01	3.86E 00	5.98E 00	2.94E 00	3.02E-01	6.76E-03
RB 90	0.0	9.15E 00	3.80E 01	1.06E 00	1.97E-02	1.95E-06	2.63E-12
RB 90M	0.0	3.43E 00	6.90E 00	6.90E-01	4.64E-02	1.41E-05	1.94E-11
RB 91	0.0	8.11E 01	5.26E 01	1.48E-03	9.93E-09	3.02E-24	0.0
RB 92	0.0	1.46E 03	2.58E-05	0.0	0.0	0.0	0.0
RB 93	0.0	1.04E 03	7.26E-04	0.0	0.0	0.0	0.0
RB 94	0.0	1.03E 03	3.77E-10	0.0	0.0	0.0	0.0
RB 95	0.0	2.25E 03	0.0	0.0	0.0	0.0	0.0
RB 96	0.0	5.46E 02	0.0	0.0	0.0	0.0	0.0
RB 97	0.0	9.89E 01	0.0	0.0	0.0	0.0	0.0
RB 98	0.0	1.56E 01	0.0	0.0	0.0	0.0	0.0
RB 99	0.0	1.29E 00	0.0	0.0	0.0	0.0	0.0
RB100	0.0	5.98E-02	0.0	0.0	0.0	0.0	0.0
RB101	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SR 86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SR 87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SR 87M	0.0	2.00E-07	1.98E-07	1.87E-07	1.74E-07	1.42E-07	1.01E-07
SR 88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SR 89	0.0	1.11E-06	4.33E-05	9.21E-04	1.59E-03	2.13E-03	2.18E-03
SR 90	0.0	7.02E-08	3.77E-06	1.33E-05	1.37E-05	1.37E-05	1.37E-05
SR 91	0.0	1.02E-02	2.94E-01	3.77E-01	3.70E-01	3.48E-01	3.14E-01
SR 92	0.0	2.84E-01	1.22E 00	1.14E 00	1.07E 00	8.61E-01	6.04E-01
SR 93	0.0	1.27E 01	2.34E 01	6.05E 00	1.30E 00	1.26E-02	5.77E-06
SR 94	0.0	1.19E 02	5.40E 01	1.69E-02	1.76E-06	2.00E-18	2.46E-38
SR 95	0.0	3.88E 02	1.71E 01	1.11E-09	2.93E-21	0.0	0.0
SR 96	0.0	1.72E 03	1.63E-06	0.0	0.0	0.0	0.0
SR 97	0.0	5.40E 03	0.0	0.0	0.0	0.0	0.0
SR 98	0.0	1.13E 03	0.0	0.0	0.0	0.0	0.0
SR 99	0.0	3.25E 02	0.0	0.0	0.0	0.0	0.0
SR100	0.0	3.42E 01	0.0	0.0	0.0	0.0	0.0
SR101	0.0	8.43E 00	0.0	0.0	0.0	0.0	0.0
SR102	0.0	5.15E-01	0.0	0.0	0.0	0.0	0.0
SR103	0.0	1.63E-02	0.0	0.0	0.0	0.0	0.0
SR104	0.0	3.27E-04	0.0	0.0	0.0	0.0	0.0
Y 89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Y 89M	0.0	3.65E-05	1.83E-07	2.45E-24	1.64E-43	0.0	0.0
Y 90	0.0	1.93E-06	1.93E-06	1.96E-06	2.00E-06	2.12E-06	2.32E-06
Y 90M	0.0	2.28E-06	2.26E-06	2.14E-06	2.02E-06	1.67E-06	1.23E-06
Y 91	0.0	1.10E-07	1.42E-06	2.37E-05	5.39E-05	1.64E-04	3.71E-04
Y 91M	0.0	1.88E-04	3.13E-03	4.31E-02	7.88E-02	1.43E-01	1.74E-01
Y 92	0.0	1.24E-03	9.22E-03	6.41E-02	1.19E-01	2.46E-01	3.59E-01
Y 93	0.0	5.80E-03	6.41E-02	2.74E-01	3.27E-01	3.24E-01	2.95E-01
Y 93M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Y 94	0.0	6.74E-01	7.51E 00	6.64E 00	3.62E 00	5.83E-01	2.79E-02
Y 95	0.0	3.24E 00	1.80E 01	7.10E 00	2.36E 00	8.71E-02	3.56E-04
Y 96	0.0	3.73E 01	4.89E 01	5.89E-01	3.88E-03	1.11E-09	1.37E-20
Y 97	0.0	6.19E 03	0.0	0.0	0.0	0.0	0.0
Y 98	0.0	8.34E 03	0.0	0.0	0.0	0.0	0.0
Y 99	0.0	3.27E 03	0.0	0.0	0.0	0.0	0.0

TABLE V (cont'd)

DECAY FOLLOWING BURST-RIA-ST-2

POWER= 0.34MW, BURNUP= 0.MWD, FLUX= 5.13E 14N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-2 1494.7 GRAMS-5.779WT%

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
Y100	0.0	1.50E 03	0.0	0.0	0.0	0.0	0.0
Y101	0.0	4.01E 02	0.0	0.0	0.0	0.0	0.0
Y102	0.0	1.48E 02	0.0	0.0	0.0	0.0	0.0
Y103	0.0	1.40E 01	0.0	0.0	0.0	0.0	0.0
Y104	0.0	8.26E-01	0.0	0.0	0.0	0.0	0.0
Y105	0.0	2.61E-02	0.0	0.0	0.0	0.0	0.0
Y106	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Y107	0.0	1.00E-04	0.0	0.0	0.0	0.0	0.0
ZR 90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZR 90M	0.0	1.71E-06	9.06E-09	8.58E-09	8.06E-09	6.69E-09	4.90E-09
ZR 91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZR 92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZR 93	0.0	1.62E-14	1.16E-13	4.04E-12	1.12E-11	3.40E-11	6.98E-11
ZR 94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZR 95	0.0	1.07E-05	2.25E-04	1.52E-03	2.04E-03	2.29E-03	2.30E-03
ZR 96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZR 97	0.0	6.61E-02	1.98E-01	1.96E-01	1.93E-01	1.87E-01	1.76E-01
ZR 98	0.0	2.56E 02	2.53E 01	7.20E-08	1.40E-17	0.0	0.0
ZR 99	0.0	3.26E 03	4.48E-12	0.0	0.0	0.0	0.0
ZR100	0.0	1.29E 03	1.20E-02	0.0	0.0	0.0	0.0
ZR101	0.0	1.79E 03	2.22E-08	0.0	0.0	0.0	0.0
ZR102	0.0	1.23E 02	6.80E 00	3.77E-09	1.14E-19	0.0	0.0
ZR103	0.0	5.07E 02	1.99E-18	0.0	0.0	0.0	0.0
ZR104	0.0	4.04E 01	1.14E-08	0.0	0.0	0.0	0.0
ZR105	0.0	1.40E 01	0.0	0.0	0.0	0.0	0.0
ZR106	0.0	3.44E 00	0.0	0.0	0.0	0.0	0.0
ZR107	0.0	2.83E-01	0.0	0.0	0.0	0.0	0.0
ZR108	0.0	5.88E-03	0.0	0.0	0.0	0.0	0.0
ZR109	0.0	3.05E-04	0.0	0.0	0.0	0.0	0.0
NB 93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NB 93M	0.0	5.25E-14	5.25E-14	5.25E-14	5.25E-14	5.26E-14	5.30E-14
NB 94	0.0	1.44E-15	1.73E-15	2.66E-15	2.85E-15	2.89E-15	2.89E-15
NB 94M	0.0	2.44E-06	1.95E-06	3.85E-07	6.08E-08	2.41E-10	2.37E-14
NB 95	0.0	1.20E-08	1.48E-08	2.08E-07	6.21E-07	2.13E-06	4.73E-06
NB 95M	0.0	9.39E-07	9.39E-07	9.60E-07	1.01E-06	1.18E-06	1.47E-06
NB 96	0.0	1.43E-05	1.42E-05	1.41E-05	1.40E-05	1.37E-05	1.31E-05
NB 97	0.0	4.94E-03	8.24E-03	3.24E-02	5.58E-02	1.06E-01	1.46E-01
NB 97M	0.0	1.39E-01	1.64E-01	1.69E-01	1.67E-01	1.61E-01	1.52E-01
NB 98	0.0	3.03E 01	3.81E-12	0.0	0.0	0.0	0.0
NB 98M	0.0	4.39E-02	3.47E 00	3.05E 00	2.43E 00	1.23E 00	3.98E-01
NB 99	0.0	9.89E 01	2.73E 00	3.26E-19	1.03E-40	0.0	0.0
NB 99M	0.0	2.04E 00	1.17E 00	2.01E-02	1.98E-04	1.89E-10	1.74E-20
NB100	0.0	4.29E 02	9.07E-03	0.0	0.0	0.0	0.0
NB100M	0.0	4.28E 02	9.09E-03	0.0	0.0	0.0	0.0
NB101	0.0	4.98E 02	1.53E-02	0.0	0.0	0.0	0.0
NB102	0.0	1.22E 03	7.59E 00	4.21E-09	1.28E-19	0.0	0.0
NB103	0.0	2.24E 02	1.43E 00	1.78E-17	1.09E-36	0.0	0.0
NB104	0.0	1.07E 03	1.55E-08	0.0	0.0	0.0	0.0
NB105	0.0	1.73E 02	1.53E-18	0.0	0.0	0.0	0.0
NB106	0.0	1.43E 02	0.0	0.0	0.0	0.0	0.0
NB107	0.0	1.73E 01	0.0	0.0	0.0	0.0	0.0
NB108	0.0	1.84E 00	0.0	0.0	0.0	0.0	0.0

TABLE V (cont'd)

DECAY FOLLOWING BURST-RIA-ST-2

POWER= 0.34MW, BURNUP= 0.MWD, FLUX= 5.13E 14N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-2(494.7 GRAMS-5.779WT%

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
NB109	0.0	9.82E-02	0.0	0.0	0.0	0.0	0.0
NB110	0.0	4.56E-03	0.0	0.0	0.0	0.0	0.0
NB111	0.0	2.80E-04	0.0	0.0	0.0	0.0	0.0
NB112	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MO 95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MO 96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MO 97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MO 98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MO 99	0.0	1.34E-04	6.12E-02	6.19E-02	6.17E-02	6.12E-02	6.03E-02
MO100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MO101	0.0	4.45E-01	1.07E 01	5.32E 00	2.41E 00	2.25E-01	4.30E-03
MO102	0.0	1.88E 00	1.11E 01	4.59E 00	1.62E 00	7.15E-02	3.93E-04
MO103	0.0	3.17E 01	3.29E 01	1.29E-03	1.24E-08	1.10E-23	0.0
MO104	0.0	2.46E 01	1.58E 01	2.75E-02	2.01E-05	7.86E-15	1.65E-30
MO105	0.0	2.84E 01	7.41E 00	9.20E-05	2.45E-10	4.63E-27	0.0
MO106	0.0	6.72E 01	7.43E-03	0.0	0.0	0.0	0.0
MO107	0.0	3.29E 01	7.78E-05	0.0	0.0	0.0	0.0
MO108	0.0	2.78E 01	0.0	0.0	0.0	0.0	0.0
MO109	0.0	3.98E 00	0.0	0.0	0.0	0.0	0.0
MO110	0.0	4.24E-01	3.42E-20	0.0	0.0	0.0	0.0
MO111	0.0	1.02E-01	0.0	0.0	0.0	0.0	0.0
MO112	0.0	5.73E-03	0.0	0.0	0.0	0.0	0.0
MO113	0.0	1.04E-03	0.0	0.0	0.0	0.0	0.0
MO114	0.0	4.66E-05	0.0	0.0	0.0	0.0	0.0
MO115	0.0	2.42E-06	0.0	0.0	0.0	0.0	0.0
TC 99	0.0	1.03E-16	8.77E-14	9.42E-13	2.07E-12	6.43E-12	1.65E-11
TC 99M	0.0	3.29E-08	1.68E-04	1.64E-03	3.27E-03	7.82E-03	1.44E-02
TC100	0.0	2.92E-03	1.61E-05	4.46E-22	6.83E-41	0.0	0.0
TC101	0.0	7.07E-04	1.04E 00	4.28E 00	3.84E 00	8.65E-01	3.13E-02
TC102	0.0	5.48E-01	1.12E 01	4.63E 00	1.64E 00	7.21E-02	3.96E-04
TC102M	0.0	9.71E-03	7.03E-03	6.61E-04	4.50E-05	1.42E-08	2.09E-14
TC103	0.0	9.22E-01	4.01E 01	6.90E-03	7.33E-08	6.58E-23	0.0
TC104	0.0	1.07E-01	1.95E 00	1.98E 00	1.05E 00	1.52E-01	6.16E-03
TC105	0.0	4.62E-01	3.13E 00	1.14E 00	2.70E-01	3.54E-03	2.59E-06
TC106	0.0	3.23E 00	2.93E 00	2.03E-07	1.48E-15	0.0	0.0
TC107	0.0	3.73E 00	7.70E-01	5.65E-10	2.35E-20	0.0	0.0
TC108	0.0	1.55E 01	3.04E-06	0.0	0.0	0.0	0.0
TC109	0.0	5.92E-01	1.28E-01	6.45E-07	6.15E-13	5.34E-31	0.0
TC110	0.0	1.04E 01	6.10E-20	0.0	0.0	0.0	0.0
TC111	0.0	2.22E 00	0.0	0.0	0.0	0.0	0.0
TC112	0.0	8.47E-01	0.0	0.0	0.0	0.0	0.0
TC113	0.0	2.11E-01	0.0	0.0	0.0	0.0	0.0
TC114	0.0	3.29E-02	0.0	0.0	0.0	0.0	0.0
TC115	0.0	3.45E-03	0.0	0.0	0.0	0.0	0.0
TC116	0.0	2.23E-04	0.0	0.0	0.0	0.0	0.0
TC117	0.0	2.62E-05	0.0	0.0	0.0	0.0	0.0
TC118	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU 99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU101	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU102	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU103	0.0	1.09E-07	7.20E-04	1.89E-03	1.89E-03	1.89E-03	1.89E-03

TABLE V (cont'd)

DECAY FOLLOWING BURST-RIA-ST-2

POWER= 0.34MW, BURNUP= 0.MWD, FLUX= 5.13E 14N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-21494.7 GRAMS-5.779WT

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
RU104	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU105	0.0	3.41E-04	1.18E-02	9.74E-02	1.19E-01	1.12E-01	8.99E-02
RU106	0.0	1.08E-07	2.89E-05	3.23E-05	3.23E-05	3.23E-05	3.23E-05
RU107	0.0	3.31E-02	1.19E 00	1.15E-01	7.33E-03	1.91E-06	2.04E-12
RU108	0.0	9.28E-02	4.09E-01	4.28E-02	3.28E-03	1.48E-06	3.95E-12
RU109	0.0	7.84E-01	2.91E-01	2.15E-06	2.05E-12	1.78E-30	0.0
RU110	0.0	2.06E 00	1.49E-02	4.13E-19	6.33E-38	0.0	0.0
RU111	0.0	1.78E 00	9.08E-03	6.00E-20	1.80E-39	0.0	0.0
RU112	0.0	1.20E 01	0.0	0.0	0.0	0.0	0.0
RU113	0.0	2.33E 00	2.07E-13	0.0	0.0	0.0	0.0
RU114	0.0	4.96E-01	3.53E-08	0.0	0.0	0.0	0.0
RU115	0.0	5.47E-01	0.0	0.0	0.0	0.0	0.0
RU116	0.0	6.26E-02	0.0	0.0	0.0	0.0	0.0
RU117	0.0	8.22E-02	0.0	0.0	0.0	0.0	0.0
RU118	0.0	2.23E-02	0.0	0.0	0.0	0.0	0.0
RU119	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU120	0.0	1.11E-05	0.0	0.0	0.0	0.0	0.0
RH103	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RH103M	0.0	5.62E-10	6.01E-06	3.20E-04	6.12E-04	1.20E-03	1.64E-03
RH104	0.0	1.50E-06	3.87E-07	2.14E-08	1.50E-09	5.21E-13	8.92E-19
RH104M	0.0	2.56E-07	1.86E-07	1.80E-08	1.26E-09	4.38E-13	7.50E-19
RH105	0.0	1.73E-08	2.80E-06	3.03E-04	9.02E-04	2.78E-03	5.39E-03
RH105M	0.0	4.52E-05	1.65E-03	2.51E-02	3.07E-02	2.88E-02	2.32E-02
RH106	0.0	2.46E-05	2.45E-05	3.23E-05	3.23E-05	3.23E-05	3.23E-05
RH106M	0.0	9.47E-08	9.37E-08	8.67E-08	7.94E-08	6.09E-08	3.92E-08
RH107	0.0	1.96E-05	5.91E-02	2.03E-01	1.34E-01	2.75E-02	1.92E-03
RH108	0.0	6.53E-03	4.33E-01	4.56E-02	3.50E-03	1.58E-06	4.22E-12
RH108M	0.0	2.35E-04	1.86E-04	3.31E-05	4.68E-06	1.34E-08	7.51E-13
RH109	0.0	7.18E-03	2.57E-01	1.41E-03	6.47E-07	5.98E-17	1.13E-33
RH109M	0.0	1.28E-02	1.92E-01	1.33E-05	2.69E-11	6.03E-29	0.0
RH110	0.0	7.16E-02	1.74E-01	1.41E-10	5.87E-21	0.0	0.0
RH110M	0.0	4.18E-01	3.80E-13	0.0	0.0	0.0	0.0
RH111	0.0	1.48E-01	2.09E-01	1.32E-05	2.21E-10	1.02E-24	0.0
RH112	0.0	3.16E 00	1.10E-07	0.0	0.0	0.0	0.0
RH113	0.0	1.11E 01	3.07E-13	0.0	0.0	0.0	0.0
RH114	0.0	5.56E 00	5.32E-08	0.0	0.0	0.0	0.0
RH115	0.0	1.08E 00	1.16E-06	0.0	0.0	0.0	0.0
RH116	0.0	2.64E 00	0.0	0.0	0.0	0.0	0.0
RH117	0.0	5.26E 00	0.0	0.0	0.0	0.0	0.0
RH118	0.0	4.76E-01	0.0	0.0	0.0	0.0	0.0
RH119	0.0	6.22E-02	0.0	0.0	0.0	0.0	0.0
RH120	0.0	1.15E-02	0.0	0.0	0.0	0.0	0.0
RH121	0.0	1.52E-03	0.0	0.0	0.0	0.0	0.0
RH122	0.0	2.03E-04	0.0	0.0	0.0	0.0	0.0
RH123	0.0	2.24E-05	0.0	0.0	0.0	0.0	0.0
PD104	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PD105	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PD106	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PD107	0.0	3.58E-20	1.00E-14	5.40E-13	1.11E-12	1.80E-12	1.96E-12
PD107M	0.0	7.46E-08	1.50E-09	5.49E-22	4.05E-36	0.0	0.0
PD108	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PD109	0.0	7.07E-08	1.51E-04	2.33E-03	2.48E-03	2.39E-03	2.23E-03

TABLE V (cont'd)

DECAY FOLLOWING BURST-RIA-ST-2

POWER= 0.34MW, BURNUP= 0.MWD, FLUX= 5.13E 14N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-2 1494.7 GRAMS-5.779WT%

		DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
PD109M	0.0	1.21E-05	2.12E-02	3.51E-02	3.02E-03	1.87E-06	8.35E-12
PD110	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PD111	0.0	1.90E-04	1.97E-02	1.91E-02	1.13E-02	2.34E-03	1.78E-04
PD111M	0.0	1.90E-05	1.54E-05	1.75E-05	1.69E-05	1.52E-05	1.28E-05
PD112	0.0	3.21E-05	3.57E-04	3.54E-04	3.50E-04	3.40E-04	3.24E-04
PD113	0.0	9.50E-02	1.12E-01	1.33E-04	6.00E-08	5.54E-18	1.05E-34
PD114	0.0	7.44E-02	8.93E-02	1.29E-03	1.05E-05	5.61E-12	1.98E-22
PD115	0.0	3.31E-01	6.13E-02	6.55E-09	7.84E-17	0.0	0.0
PD116	0.0	1.13E 00	3.45E-03	4.13E-22	1.30E-43	0.0	0.0
PD117	0.0	2.86E 00	2.57E-07	0.0	0.0	0.0	0.0
PD118	0.0	2.13E 00	4.87E-12	0.0	0.0	0.0	0.0
PD119	0.0	2.05E 00	1.64E-21	0.0	0.0	0.0	0.0
PD120	0.0	3.22E-01	1.13E-09	0.0	0.0	0.0	0.0
PD121	0.0	4.30E-01	0.0	0.0	0.0	0.0	0.0
PD122	0.0	7.25E-02	0.0	0.0	0.0	0.0	0.0
PD123	0.0	3.61E-02	0.0	0.0	0.0	0.0	0.0
PD124	0.0	6.20E-03	0.0	0.0	0.0	0.0	0.0
PD125	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PD126	0.0	1.43E-04	0.0	0.0	0.0	0.0	0.0
AG107	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AG108	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AG108M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AG109	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AG109M	0.0	7.07E-09	7.08E-05	2.33E-03	2.48E-03	2.39E-03	2.23E-03
AG110	0.0	2.41E-13	2.45E-13	2.45E-13	2.45E-13	2.45E-13	2.45E-13
AG110M	0.0	2.27E-07	7.71E-09	1.31E-19	7.61E-32	0.0	0.0
AG111	0.0	3.95E-10	4.50E-07	2.23E-05	3.90E-05	5.81E-05	6.25E-05
AG111M	0.0	4.97E-06	9.15E-03	1.99E-02	1.18E-02	2.45E-03	1.89E-04
AG112	0.0	1.36E-07	2.76E-06	2.13E-05	4.10E-05	9.23E-05	1.56E-04
AG113	0.0	2.52E-06	7.26E-04	1.17E-03	1.13E-03	1.01E-03	8.42E-04
AG113M	0.0	3.87E-04	1.21E-02	4.97E-05	2.25E-08	2.08E-18	3.92E-35
AG114	0.0	5.24E-02	9.22E-02	1.33E-03	1.08E-05	5.80E-12	2.04E-22
AG115	0.0	6.71E-04	1.09E-02	7.55E-03	4.35E-03	8.36E-04	5.34E-05
AG115M	0.0	3.08E-02	2.82E-02	3.20E-09	3.83E-17	0.0	0.0
AG116	0.0	1.04E-02	4.41E-02	9.96E-04	1.34E-05	3.24E-11	1.41E-20
AG116M	0.0	1.86E-01	4.56E-03	5.46E-22	1.72E-43	0.0	0.0
AG117	0.0	1.32E-02	5.14E-02	1.24E-05	9.55E-10	4.39E-22	1.20E-42
AG117M	0.0	1.73E-01	3.34E-06	0.0	0.0	0.0	0.0
AG118	0.0	1.66E 01	2.17E-09	0.0	0.0	0.0	0.0
AG118M	0.0	1.06E 00	4.48E-09	0.0	0.0	0.0	0.0
AG119	0.0	2.03E 00	2.73E-06	0.0	0.0	0.0	0.0
AG120	0.0	6.03E 00	1.62E-09	0.0	0.0	0.0	0.0
AG121	0.0	2.03E 00	1.95E-12	0.0	0.0	0.0	0.0
AG122	0.0	5.50E 00	0.0	0.0	0.0	0.0	0.0
AG123	0.0	1.57E 00	0.0	0.0	0.0	0.0	0.0
AG124	0.0	1.26E 00	0.0	0.0	0.0	0.0	0.0
AG125	0.0	2.52E-01	0.0	0.0	0.0	0.0	0.0
AG126	0.0	1.32E-01	0.0	0.0	0.0	0.0	0.0
AG127	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AG128	0.0	6.39E-03	0.0	0.0	0.0	0.0	0.0
CD108	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CD109	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE V (cont'd)

DECAY FOLLOWING BURST-RIA-ST-2

POWER= 0.34MW, BURNUP= 0.MWD, FLUX= 5.13E 14N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-2 1494.7 GRAMS-5.779WT%

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
CD110	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CD111	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CD111M	0.0	1.02E-11	9.87E-12	8.01E-12	6.32E-12	3.10E-12	9.47E-13
CD112	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CD113	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CD113M	0.0	3.22E-10	3.97E-10	5.93E-10	6.16E-10	6.79E-10	7.69E-10
CD114	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CD115	0.0	9.86E-07	2.30E-05	5.52E-05	7.41E-05	9.42E-05	9.72E-05
CD115M	0.0	1.98E-09	3.68E-07	5.76E-07	6.65E-07	7.62E-07	7.83E-07
CD116	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CD117	0.0	3.52E-06	1.26E-03	1.48E-03	1.38E-03	1.10E-03	7.62E-04
CD117M	0.0	2.50E-06	5.75E-04	6.06E-04	5.73E-04	4.83E-04	3.64E-04
CD118	0.0	3.39E-03	7.92E-03	6.47E-03	5.14E-03	2.58E-03	8.19E-04
CD119	0.0	6.11E-03	1.74E-02	5.92E-03	1.73E-03	4.34E-05	9.28E-08
CD119M	0.0	1.79E-02	3.91E-02	1.63E-03	4.41E-05	8.73E-10	1.26E-17
CD120	0.0	2.76E-01	9.04E-02	5.51E-07	6.54E-13	1.09E-30	0.0
CD121	0.0	1.31E 00	2.99E-03	6.02E-24	0.0	0.0	0.0
CD122	0.0	3.90E 00	1.09E-06	0.0	0.0	0.0	0.0
CD123	0.0	2.27E 00	1.23E-04	0.0	0.0	0.0	0.0
CD124	0.0	1.26E 00	1.01E-02	3.77E-18	1.11E-35	0.0	0.0
CD125	0.0	5.39E 00	0.0	0.0	0.0	0.0	0.0
CD126	0.0	3.30E 00	8.45E-10	0.0	0.0	0.0	0.0
CD127	0.0	6.62E 00	0.0	0.0	0.0	0.0	0.0
CD128	0.0	2.14E 00	0.0	0.0	0.0	0.0	0.0
CD129	0.0	9.06E-01	0.0	0.0	0.0	0.0	0.0
CD130	0.0	1.87E 00	0.0	0.0	0.0	0.0	0.0
CD131	0.0	2.78E-01	0.0	0.0	0.0	0.0	0.0
CD132	0.0	2.56E-02	0.0	0.0	0.0	0.0	0.0
IN113	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IN113M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IN114	0.0	3.83E-10	1.20E-10	3.10E-14	6.11E-15	6.10E-15	6.10E-15
IN114M	0.0	6.33E-15	6.33E-15	6.33E-15	6.33E-15	6.32E-15	6.32E-15
IN115	0.0	6.86E-29	1.27E-27	4.98E-26	2.01E-25	1.47E-24	6.39E-24
IN115M	0.0	8.75E-11	6.63E-08	1.63E-06	4.31E-06	1.43E-05	3.02E-05
IN116	0.0	2.14E-06	6.10E-09	1.35E-27	8.53E-49	0.0	0.0
IN116M	0.0	9.56E-09	9.31E-09	7.72E-09	6.24E-09	3.29E-09	1.13E-09
IN117	0.0	5.48E-10	1.13E-05	1.11E-04	2.09E-04	4.19E-04	5.65E-04
IN117M	0.0	2.96E-10	1.36E-05	1.54E-04	2.90E-04	5.69E-04	7.48E-04
IN118	0.0	2.46E-05	2.19E-03	6.44E-03	5.59E-03	2.83E-03	8.97E-04
IN118M	0.0	1.03E-03	6.14E-11	0.0	0.0	0.0	0.0
IN119	0.0	3.84E-04	1.05E-02	2.78E-03	4.19E-04	6.27E-05	2.70E-06
IN119M	0.0	5.54E-05	3.25E-03	8.45E-03	6.05E-03	1.11E-03	1.67E-05
IN120	0.0	6.25E-03	7.56E-02	3.07E-06	5.85E-12	1.42E-29	0.0
IN120M	0.0	9.52E-02	4.79E-02	2.92E-07	3.47E-13	5.79E-31	0.0
IN121	0.0	4.29E-02	6.95E-02	2.48E-11	4.39E-22	0.0	0.0
IN121M	0.0	8.47E-03	2.16E-02	9.92E-04	2.99E-05	8.22E-10	2.06E-17
IN122	0.0	2.94E-01	2.24E-03	0.0	0.0	0.0	0.0
IN122M	0.0	1.04E 00	0.0	0.0	0.0	0.0	0.0
IN123	0.0	7.43E-01	3.27E-04	0.0	0.0	0.0	0.0
[illegible]	0.0	8.49E-02	3.60E-02	1.09E-07	5.84E-14	8.95E-33	0.0
[illegible]	0.0	5.52E 00	1.24E-02	4.63E-18	1.36E-35	0.0	0.0
IN125	0.0	1.34E 00	4.10E-15	0.0	0.0	0.0	0.0

TABLE V (cont'd)

DECAY FOLLOWING BURST-RIA-ST-2

POWER= 0.34MW, BURNUP= 0.MWD, FLUX= 5.13E 14N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-2(494.7 GRAMS-5.779WT%

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
IN125M	0.0	8.77E-01	1.11E-03	0.0	0.0	0.0	0.0
IN126	0.0	3.60E 01	1.42E-09	0.0	0.0	0.0	0.0
IN127	0.0	1.84E 01	1.74E-17	0.0	0.0	0.0	0.0
IN127M	0.0	1.09E 01	1.39E-09	0.0	0.0	0.0	0.0
IN128	0.0	2.80E 01	5.02E-09	0.0	0.0	0.0	0.0
IN129	0.0	6.59E 01	0.0	0.0	0.0	0.0	0.0
IN130	0.0	1.55E 02	0.0	0.0	0.0	0.0	0.0
IN131	0.0	6.25E 01	0.0	0.0	0.0	0.0	0.0
IN132	0.0	2.09E 01	0.0	0.0	0.0	0.0	0.0
IN133	0.0	1.35E 00	0.0	0.0	0.0	0.0	0.0
IN134	0.0	3.30E-02	0.0	0.0	0.0	0.0	0.0
SN114	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN115	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN116	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN117	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN117M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN118	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN119	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN119M	0.0	5.49E-12	1.26E-09	1.30E-08	1.48E-08	1.57E-08	1.58E-08
SN120	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN121	0.0	2.92E-07	2.25E-04	2.86E-04	2.86E-04	2.80E-04	2.70E-04
SN121M	0.0	7.57E-12	7.57E-12	7.57E-12	7.57E-12	7.57E-12	7.57E-12
SN122	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN123	0.0	3.20E-07	1.59E-06	1.67E-06	1.67E-06	1.67E-06	1.66E-06
SN123M	0.0	2.20E-04	5.94E-03	4.90E-03	3.67E-03	1.54E-03	3.64E-04
SN124	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN125	0.0	2.53E-05	3.25E-05	3.24E-05	3.24E-05	3.23E-05	3.22E-05
SN125M	0.0	1.63E-02	5.02E-02	1.73E-02	5.13E-03	1.35E-04	3.12E-07
SN126	0.0	1.48E-11	3.62E-11	3.62E-11	3.62E-11	3.62E-11	3.62E-11
SN127	0.0	1.14E-02	2.18E-02	2.01E-02	1.84E-02	1.40E-02	8.89E-03
SN127M	0.0	3.38E-01	2.42E-01	2.07E-02	1.26E-03	2.88E-07	2.46E-13
SN128	0.0	1.60E-01	1.85E-01	1.56E-01	1.28E-01	7.13E-02	2.68E-02
SN129	0.0	8.59E-01	7.61E-01	1.96E-01	4.21E-02	4.14E-04	1.87E-07
SN129M	0.0	4.53E 00	2.71E 00	4.64E-02	4.56E-04	4.35E-10	4.02E-20
SN130	0.0	7.75E 00	5.57E 00	3.57E-01	1.57E-02	1.35E-06	2.23E-13
SN131	0.0	2.97E 01	8.02E 00	5.00E-04	8.34E-09	3.86E-23	0.0
SN132	0.0	2.95E 01	3.69E 00	8.80E-07	2.62E-14	0.0	0.0
SN133	0.0	1.90E 02	0.0	0.0	0.0	0.0	0.0
SN134	0.0	1.90E 01	0.0	0.0	0.0	0.0	0.0
SN135	0.0	3.81E 00	0.0	0.0	0.0	0.0	0.0
SN136	0.0	1.79E-01	0.0	0.0	0.0	0.0	0.0
SB121	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB122	0.0	1.85E-10	2.40E-10	3.66E-10	3.77E-10	3.74E-10	3.69E-10
SB122M	0.0	1.81E-07	1.30E-07	1.18E-08	7.40E-10	1.93E-13	2.05E-19
SB123	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB124	0.0	1.25E-09	1.90E-09	2.38E-09	2.38E-09	2.38E-09	2.38E-09
SB124M	0.0	6.14E-05	2.59E-05	4.52E-08	3.31E-11	1.29E-20	2.71E-36
SB125	0.0	1.44E-09	5.37E-08	2.72E-07	3.53E-07	3.87E-07	3.89E-07
SB126	0.0	1.57E-06	1.58E-06	1.61E-06	1.63E-06	1.65E-06	1.65E-06
SB127	0.0	6.89E-04	5.48E-04	3.21E-04	1.75E-04	2.82E-05	1.35E-06
SB128	0.0	1.36E-05	1.10E-04	3.15E-04	3.70E-04	4.70E-04	5.83E-04
SB128	0.0	6.82E-04	6.80E-04	6.67E-04	6.53E-04	6.13E-04	5.50E-04

TABLE V (cont'd)

DECAY FOLLOWING BURST-RIA-ST-2

POWER= 0.34MW, BURNUP= 0.MWD, FLUX= 5.13E 14N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-2(494.7 GRAMS-5.779NT

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
SB128M	0.0	2.13E-02	4.20E-02	1.21E-01	1.33E-01	8.57E-02	3.25E-02
SB129	0.0	1.06E-02	3.42E-02	7.36E-02	7.51E-02	6.68E-02	5.36E-02
SB130	0.0	1.05E 00	9.78E-01	3.16E-01	6.09E-02	3.30E-04	5.22E-08
SB130M	0.0	2.75E-01	4.88E-01	7.59E-01	5.80E-01	2.28E-01	4.78E-02
SB131	0.0	2.32E 00	3.15E 00	2.27E 00	1.38E 00	3.05E-01	2.47E-02
SB132	0.0	1.70E 01	1.42E 01	1.25E-01	5.14E-04	3.49E-11	3.96E-23
SB132M	0.0	8.58E 00	6.12E 00	5.13E-01	3.06E-02	6.53E-06	4.97E-12
SB133	0.0	2.96E 01	1.77E 01	2.56E-01	2.08E-03	1.31E-09	3.93E-20
SB134	0.0	3.86E 02	0.0	0.0	0.0	0.0	0.0
SB134M	0.0	4.27E 01	1.80E-02	0.0	0.0	0.0	0.0
SB135	0.0	1.97E 02	1.11E-19	0.0	0.0	0.0	0.0
SB136	0.0	8.73E 01	0.0	0.0	0.0	0.0	0.0
SB137	0.0	6.47E 00	0.0	0.0	0.0	0.0	0.0
SB138	0.0	5.47E-01	0.0	0.0	0.0	0.0	0.0
SB139	0.0	3.09E-02	0.0	0.0	0.0	0.0	0.0
TE122	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TE123	0.0	2.57E-28	2.57E-28	2.57E-28	2.57E-28	2.57E-28	2.57E-28
TE123M	0.0	9.75E-15	9.75E-15	9.75E-15	9.75E-15	9.75E-15	9.75E-15
TE124	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TE125	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TE125M	0.0	1.42E-11	1.44E-11	1.94E-11	2.97E-11	6.58E-11	1.27E-10
TE126	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TE127	0.0	1.21E-06	1.36E-06	5.02E-06	1.08E-05	3.15E-05	7.22E-05
TE127M	0.0	1.28E-08	1.29E-08	1.54E-08	1.95E-08	3.44E-08	6.57E-08
TE128	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TE129	0.0	5.83E-03	6.06E-03	1.17E-02	1.86E-02	3.24E-02	3.94E-02
TE129M	0.0	7.80E-06	7.96E-06	1.11E-05	1.55E-05	2.78E-05	4.50E-05
TE130	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TE131	0.0	1.48E-01	2.83E-01	1.07E 00	1.28E 00	7.39E-01	1.33E-01
TE131M	0.0	3.55E-03	3.69E-03	4.77E-03	5.52E-03	6.33E-03	6.37E-03
TE132	0.0	1.10E-02	1.81E-02	3.01E-02	3.05E-02	3.03E-02	2.99E-02
TE133	0.0	3.31E 00	5.43E 00	4.29E 00	1.83E 00	2.11E-01	3.96E-02
TE133M	0.0	1.82E 00	1.79E 00	1.50E 00	1.22E 00	6.52E-01	2.30E-01
TE134	0.0	5.10E 00	5.24E 00	4.11E 00	3.13E 00	1.37E 00	3.46E-01
TE135	0.0	3.43E 02	3.58E 00	6.87E-15	1.30E-31	0.0	0.0
TE136	0.0	1.79E 02	3.43E 00	8.34E-13	3.86E-27	0.0	0.0
TE137	0.0	2.20E 02	1.05E-08	0.0	0.0	0.0	0.0
TE138	0.0	9.04E 01	0.0	0.0	0.0	0.0	0.0
TE139	0.0	3.39E 01	0.0	0.0	0.0	0.0	0.0
TE140	0.0	2.53E 00	0.0	0.0	0.0	0.0	0.0
TE141	0.0	1.52E-01	0.0	0.0	0.0	0.0	0.0
TE142	0.0	4.51E-03	0.0	0.0	0.0	0.0	0.0
I127	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I128	0.0	1.76E-05	1.67E-05	1.11E-05	7.00E-06	1.75E-06	1.74E-07
I129	0.0	6.20E-17	1.04E-15	1.16E-14	3.27E-14	1.42E-13	3.98E-13
I130	0.0	7.73E-06	8.12E-06	9.65E-06	1.01E-05	9.80E-06	9.07E-06
I130M	0.0	2.78E-04	2.38E-04	7.60E-05	2.08E-05	4.23E-07	6.45E-10
I131	0.0	1.16E-05	3.74E-05	6.90E-04	1.90E-03	5.05E-03	6.88E-03
I132	0.0	4.15E-03	4.25E-03	5.89E-03	7.87E-03	1.29E-02	1.88E-02
I133	0.0	4.60E-03	1.47E-02	7.20E-02	1.09E-01	1.46E-01	1.60E-01
I133M	0.0	2.77E 01	2.68E-03	0.0	0.0	0.0	0.0
I134	0.0	2.74E-01	4.90E-01	1.37E 00	1.81E 00	1.92E 00	1.08E 00

TABLE V (cont'd)

DECAY FOLLOWING BURST-RIA-ST-2

POWER= 0.34MW, BURNUP= 0.MWD, FLUX= 5.13E 14N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-2(494.7 GRAMS-5.779WT%

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
I134M	0.0	3.95E 00	2.69E 00	1.60E-01	6.45E-03	4.25E-07	4.57E-14
I135	0.0	2.65E-01	5.36E-01	5.25E-01	5.10E-01	4.67E-01	4.04E-01
I136	0.0	2.80E 01	3.15E 01	2.10E-02	4.97E-06	6.54E-17	4.80E-35
I136M	0.0	8.27E 01	1.46E 01	4.42E-05	2.37E-11	3.63E-30	0.0
I137	0.0	2.33E 02	9.17E 00	1.56E-10	9.05E-23	0.0	0.0
I138	0.0	4.66E 02	1.37E-03	0.0	0.0	0.0	0.0
I139	0.0	5.52E 02	4.96E-13	0.0	0.0	0.0	0.0
I140	0.0	3.69E 02	0.0	0.0	0.0	0.0	0.0
I141	0.0	8.16E 01	0.0	0.0	0.0	0.0	0.0
I142	0.0	7.11E 00	0.0	0.0	0.0	0.0	0.0
I143	0.0	2.90E-01	0.0	0.0	0.0	0.0	0.0
I144	0.0	1.60E-02	0.0	0.0	0.0	0.0	0.0
I145	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE128	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE129	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE129M	0.0	1.50E-11	1.50E-11	1.50E-11	1.50E-11	1.49E-11	1.48E-11
XE130	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE131	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE131M	0.0	1.49E-09	1.50E-09	2.77E-09	8.76E-09	5.96E-08	2.05E-07
XE132	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE133	0.0	2.87E-06	4.61E-06	5.61E-05	1.77E-04	6.93E-04	1.70E-03
XE133M	0.0	1.99E-05	2.06E-05	4.04E-05	8.67E-05	2.84E-04	6.67E-04
XE134	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE134M	0.0	6.23E 01	0.0	0.0	0.0	0.0	0.0
XE135	0.0	5.66E-03	7.53E-03	2.05E-02	3.27E-02	6.21E-02	9.96E-02
XE135M	0.0	3.52E-01	3.27E-01	2.06E-01	1.37E-01	7.76E-02	6.19E-02
XE136	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE137	0.0	2.56E 01	3.92E 01	2.85E 00	1.41E-01	1.70E-05	4.97E-12
XE138	0.0	1.11E 01	1.34E 01	6.56E 00	2.91E 00	2.53E-01	4.34E-03
XE139	0.0	2.23E 02	3.29E 01	9.12E-06	3.23E-13	0.0	0.0
XE140	0.0	5.15E 02	1.19E 00	3.97E-20	0.0	0.0	0.0
XE141	0.0	1.17E 03	1.19E-18	0.0	0.0	0.0	0.0
XE142	0.0	4.79E 02	0.0	0.0	0.0	0.0	0.0
XE143	0.0	1.39E 02	0.0	0.0	0.0	0.0	0.0
XE144	0.0	9.62E 00	0.0	0.0	0.0	0.0	0.0
XE145	0.0	2.74E-01	0.0	0.0	0.0	0.0	0.0
XE146	0.0	2.83E-02	0.0	0.0	0.0	0.0	0.0
XE147	0.0	2.50E-03	0.0	0.0	0.0	0.0	0.0
CS133	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CS134	0.0	3.15E-10	3.21E-10	3.65E-10	4.12E-10	5.37E-10	6.96E-10
CS134M	0.0	4.90E-06	4.86E-06	4.58E-06	4.29E-06	3.51E-06	2.52E-06
CS135	0.0	2.30E-14	3.10E-14	1.53E-13	4.12E-13	1.79E-12	5.71E-12
CS135M	0.0	3.81E-04	3.72E-04	3.07E-04	2.47E-04	1.28E-04	4.31E-05
CS136	0.0	9.49E-06	9.49E-06	9.48E-06	9.48E-06	9.46E-06	9.43E-06
CS137	0.0	2.37E-07	3.08E-06	1.28E-05	1.34E-05	1.35E-05	1.35E-05
CS138	0.0	3.26E-01	9.06E-01	3.21E 00	3.56E 00	1.80E 00	3.29E-01
CS138M	0.0	2.90E 00	1.80E 00	5.40E-02	1.00E-03	6.49E-09	1.45E-17
CS139	0.0	4.67E 00	1.88E 01	7.16E 00	2.07E 00	4.98E-02	1.00E-04
CS140	0.0	7.10E 01	5.87E 01	4.16E-03	7.95E-08	5.56E-22	0.0
CS141	0.0	2.71E 02	1.29E 01	3.26E-10	2.97E-22	0.0	0.0
CS142	0.0	2.48E 03	2.08E-18	0.0	0.0	0.0	0.0
CS143	0.0	1.50E 03	8.59E-19	0.0	0.0	0.0	0.0

TABLE V (cont'd)

DECAY FOLLOWING BURST-RIA-ST-2

POWER= 0.34MW, BURNUP= 0.MWD, FLUX= 5.13E 14N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-21494.7 GRAMS-5.779WT%

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
CS144	0.0	4.16E 02	0.0	0.0	0.0	0.0	0.0
CS145	0.0	1.45E 02	0.0	0.0	0.0	0.0	0.0
CS146	0.0	2.25E 01	0.0	0.0	0.0	0.0	0.0
CS147	0.0	1.60E 00	0.0	0.0	0.0	0.0	0.0
CS148	0.0	8.52E-02	0.0	0.0	0.0	0.0	0.0
CS149	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CS150	0.0	4.98E-05	0.0	0.0	0.0	0.0	0.0
BA134	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BA135	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BA135M	0.0	4.58E-09	4.58E-09	4.55E-09	4.52E-09	4.43E-09	4.28E-09
BA136	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BA136M	0.0	9.14E-07	1.52E-06	1.52E-06	1.52E-06	1.51E-06	1.51E-06
BA137	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BA137M	0.0	3.28E-03	1.91E-03	4.64E-05	1.30E-05	1.27E-05	1.27E-05
BA138	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BA139	0.0	2.76E-02	2.67E-01	1.71E 00	2.01E 00	1.49E 00	7.50E-01
BA140	0.0	7.86E-04	8.13E-03	1.15E-02	1.15E-02	1.15E-02	1.15E-02
BA141	0.0	2.73E 00	9.98E 00	5.90E 00	3.14E 00	4.72E-01	2.01E-02
BA142	0.0	1.08E 01	1.61E 01	6.21E 00	2.11E 00	8.27E-02	3.75E-04
BA143	0.0	5.82E 02	1.77E 00	5.87E-20	0.0	0.0	0.0
BA144	0.0	7.20E 02	3.97E-01	0.0	0.0	0.0	0.0
BA145	0.0	5.98E 02	9.13E-04	0.0	0.0	0.0	0.0
BA146	0.0	5.25E 02	2.00E-14	0.0	0.0	0.0	0.0
BA147	0.0	1.03E 02	6.22E-15	0.0	0.0	0.0	0.0
BA148	0.0	5.25E 00	3.97E-06	0.0	0.0	0.0	0.0
BA149	0.0	1.74E 00	0.0	0.0	0.0	0.0	0.0
BA150	0.0	5.62E-02	4.44E-22	0.0	0.0	0.0	0.0
BA151	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BA152	0.0	1.43E-04	0.0	0.0	0.0	0.0	0.0
LA138	0.0	3.83E-20	3.83E-20	3.83E-20	3.83E-20	3.83E-20	3.83E-20
LA139	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LA140	0.0	7.85E-05	8.12E-05	1.29E-04	1.84E-04	3.45E-04	6.08E-04
LA141	0.0	2.92E-03	5.21E-02	3.87E-01	5.80E-01	6.91E-01	5.68E-01
LA142	0.0	3.72E-02	2.92E-01	1.33E 00	1.62E 00	1.29E 00	6.96E-01
LA143	0.0	1.74E 00	1.34E 01	6.52E 00	2.86E 00	2.40E-01	3.88E-03
LA144	0.0	6.19E 01	4.36E 01	1.04E-05	3.11E-13	0.0	0.0
LA145	0.0	1.25E 02	1.65E 01	1.21E-08	5.05E-19	0.0	0.0
LA146	0.0	4.01E 02	2.63E-02	0.0	0.0	0.0	0.0
LA147	0.0	1.86E 02	5.27E-02	0.0	0.0	0.0	0.0
LA148	0.0	4.14E 02	5.09E-06	0.0	0.0	0.0	0.0
LA149	0.0	4.50E 01	1.12E-11	0.0	0.0	0.0	0.0
LA150	0.0	2.01E 01	6.95E-22	0.0	0.0	0.0	0.0
LA151	0.0	1.46E 00	0.0	0.0	0.0	0.0	0.0
LA152	0.0	1.80E-01	0.0	0.0	0.0	0.0	0.0
LA153	0.0	9.66E-03	0.0	0.0	0.0	0.0	0.0
LA154	0.0	4.70E-04	0.0	0.0	0.0	0.0	0.0
LA155	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CE140	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CE141	0.0	1.68E-08	7.42E-07	5.21E-05	1.74E-04	6.68E-04	1.45E-03
CE142	0.0	3.17E-19	4.53E-18	1.72E-16	4.90E-16	1.43E-15	2.44E-15
CE143	0.0	5.43E-04	8.96E-03	5.80E-02	8.34E-02	1.00E-01	9.90E-02
CE144	0.0	6.00E-06	5.03E-04	5.74E-04	5.74E-04	5.74E-04	5.74E-04

TABLE V (cont'd)

DECAY FOLLOWING BURST-RIA-ST-2

POWER= 0.34MW, BURNUP= 0.MWD, FLUX= 5.13E 14N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-2 1494.7 GRAMS-5.779WT%

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
CE145	0.0	2.59E 00	3.17E 01	1.58E 00	4.78E-02	1.31E-06	3.29E-14
CE146	0.0	1.79E 00	6.45E 00	3.15E 00	1.40E 00	1.22E-01	2.08E-03
CE147	0.0	3.37E 01	2.09E 01	3.44E-03	1.72E-07	2.16E-20	6.80E-42
CE148	0.0	5.79E 01	1.04E 01	7.15E-06	7.14E-13	7.10E-34	0.0
CE149	0.0	1.05E 03	1.72E-11	0.0	0.0	0.0	0.0
CE150	0.0	4.20E 02	1.57E-21	0.0	0.0	0.0	0.0
CE151	0.0	1.09E 02	0.0	0.0	0.0	0.0	0.0
CE152	0.0	1.96E 00	5.23E-03	6.87E-22	2.40E-43	0.0	0.0
CE153	0.0	1.48E 00	1.70E-21	0.0	0.0	0.0	0.0
CE154	0.0	6.16E-02	5.37E-12	0.0	0.0	0.0	0.0
CE155	0.0	1.63E-02	0.0	0.0	0.0	0.0	0.0
CE156	0.0	8.65E-04	0.0	0.0	0.0	0.0	0.0
CE157	0.0	1.23E-04	0.0	0.0	0.0	0.0	0.0
PR141	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PR142	0.0	8.37E-10	9.12E-10	1.28E-09	1.48E-09	1.59E-09	1.52E-09
PR142M	0.0	6.59E-08	5.99E-08	2.99E-08	1.35E-08	1.26E-09	2.41E-11
PR143	0.0	4.83E-09	3.11E-07	1.93E-05	6.21E-05	2.31E-04	5.25E-04
PR144	0.0	1.32E-04	1.59E-04	3.72E-04	4.78E-04	5.62E-04	5.73E-04
PR144M	0.0	1.61E-04	1.34E-04	3.78E-05	1.31E-05	6.94E-06	6.89E-06
PR145	0.0	1.29E-04	1.02E-01	3.96E-01	3.97E-01	3.61E-01	3.07E-01
PR146	0.0	1.25E-02	3.89E-01	1.80E 00	1.91E 00	7.56E-01	8.25E-02
PR147	0.0	1.70E-01	4.49E 00	2.89E 00	1.10E 00	6.14E-02	4.99E-04
PR148	0.0	2.86E 00	1.57E 01	1.33E-01	4.15E-04	1.24E-11	3.55E-24
PR149	0.0	7.12E 00	8.61E 00	1.04E-01	6.83E-04	1.95E-10	2.42E-21
PR150	0.0	6.01E 01	1.24E-01	5.35E-23	0.0	0.0	0.0
PR151	0.0	1.13E 02	1.40E-07	0.0	0.0	0.0	0.0
PR152	0.0	2.49E 01	1.40E-02	1.69E-21	5.91E-43	0.0	0.0
PR153	0.0	7.74E 00	1.76E-04	0.0	0.0	0.0	0.0
PR154	0.0	6.89E 00	8.44E-12	0.0	0.0	0.0	0.0
PR155	0.0	6.92E-01	5.54E-20	0.0	0.0	0.0	0.0
PR156	0.0	1.69E-01	0.0	0.0	0.0	0.0	0.0
PR157	0.0	1.62E-02	0.0	0.0	0.0	0.0	0.0
PR158	0.0	1.82E-03	0.0	0.0	0.0	0.0	0.0
PR159	0.0	6.73E-05	0.0	0.0	0.0	0.0	0.0
ND142	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ND143	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ND144	0.0	2.92E-23	2.93E-23	3.19E-23	3.64E-23	5.32E-23	8.31E-23
ND145	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ND146	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ND147	0.0	7.06E-07	2.48E-04	3.17E-03	4.52E-03	5.30E-03	5.32E-03
ND148	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ND149	0.0	6.30E-03	1.63E-01	3.22E-01	2.90E-01	2.08E-01	1.19E-01
ND150	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ND151	0.0	3.82E-01	1.02E 00	4.50E-01	1.77E-01	1.08E-02	1.03E-04
ND152	0.0	4.32E-01	6.88E-01	2.84E-01	1.04E-01	5.11E-03	3.37E-05
ND153	0.0	3.45E 00	1.31E 00	1.57E-04	5.48E-09	2.33E-22	0.0
ND154	0.0	1.55E-04	1.69E-04	1.69E-04	1.68E-04	1.68E-04	1.67E-04
ND155	0.0	1.26E 00	5.38E-02	3.68E-12	1.03E-23	0.0	0.0
ND156	0.0	1.20E-01	2.94E-02	8.68E-07	6.19E-12	2.25E-27	0.0
ND157	0.0	2.69E-01	5.35E-10	0.0	0.0	0.0	0.0
ND158	0.0	2.02E-02	5.34E-07	0.0	0.0	0.0	0.0
[illegible]	[illegible]	1.40E-03	0.0	0.0	0.0	0.0	0.0

TABLE V (cont'd)

DECAY FOLLOWING BURST-RIA-ST-2

POWER= 0.34MW, BURNUP= 0.MWD, FLUX= 5.13E 14N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-2(494.7 GRAMS-5.779WT%

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
ND160	0.0	8.99E-04	8.36E-21	0.0	0.0	0.0	0.0
ND161	0.0	8.47E-05	0.0	0.0	0.0	0.0	0.0
PM147	0.0	9.81E-13	9.49E-11	1.42E-08	4.73E-08	1.75E-07	3.98E-07
PM148	0.0	2.48E-08	2.48E-08	2.47E-08	2.47E-08	2.46E-08	2.44E-08
PM148M	0.0	4.21E-10	4.21E-10	4.21E-10	4.21E-10	4.20E-10	4.20E-10
PM149	0.0	3.46E-07	4.06E-05	9.88E-04	2.09E-03	4.74E-03	7.52E-03
PM150	0.0	1.12E-04	1.11E-04	1.05E-04	9.74E-05	7.85E-05	5.48E-05
PM151	0.0	3.68E-05	9.16E-04	5.06E-03	7.00E-03	8.05E-03	7.86E-03
PM152	0.0	3.06E-02	2.29E-01	3.71E-01	1.58E-01	7.98E-03	5.23E-05
PM152M	0.0	1.64E-02	1.37E-02	3.52E-03	7.55E-04	7.43E-06	3.36E-09
PM153	0.0	1.03E-01	6.50E-01	1.52E-01	1.78E-02	3.00E-05	6.79E-10
PM154	0.0	1.10E-01	7.14E-02	2.38E-03	2.05E-04	1.68E-04	1.67E-04
PM154M	0.0	1.70E-01	7.88E-02	2.78E-04	4.54E-07	1.97E-15	2.29E-25
PM155	0.0	7.81E-01	2.81E-01	2.35E-08	1.37E-16	0.0	0.0
PM156	0.0	1.09E 00	3.95E-02	1.12E-06	7.98E-12	2.90E-27	0.0
PM157	0.0	8.88E-02	3.13E-02	3.99E-06	1.50E-10	7.92E-24	0.0
PM158	0.0	4.40E-01	1.03E-06	0.0	0.0	0.0	0.0
PM159	0.0	6.32E-02	1.93E-10	0.0	0.0	0.0	0.0
PM160	0.0	6.05E-02	1.58E-20	0.0	0.0	0.0	0.0
PM161	0.0	2.18E-03	0.0	0.0	0.0	0.0	0.0
PM162	0.0	1.44E-04	0.0	0.0	0.0	0.0	0.0
SM147	0.0	0.0	6.55E-28	9.71E-25	7.09E-24	7.46E-23	3.69E-22
SM148	0.0	5.87E-31	8.88E-30	6.96E-29	1.39E-28	3.45E-28	6.87E-28
SM149	0.0	4.31E-29	3.96E-27	9.39E-25	4.35E-24	2.74E-23	9.63E-23
SM150	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SM151	0.0	2.72E-12	1.65E-11	6.97E-10	2.16E-09	7.67E-09	1.71E-08
SM152	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SM153	0.0	4.04E-06	2.29E-04	1.85E-03	2.10E-03	2.11E-03	2.07E-03
SM154	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SM155	0.0	3.61E-03	4.03E-02	3.12E-02	1.85E-02	3.89E-03	2.89E-04
SM156	0.0	1.84E-04	7.49E-04	8.01E-04	7.85E-04	7.38E-04	6.66E-04
SM157	0.0	1.23E-02	2.00E-02	7.05E-03	1.66E-03	2.19E-05	1.60E-08
SM158	0.0	1.65E-03	2.28E-03	1.81E-03	1.39E-03	6.32E-04	1.70E-04
SM159	0.0	9.16E-03	6.54E-03	1.52E-04	2.12E-06	5.73E-12	3.01E-21
SM160	0.0	1.60E-03	1.40E-03	2.45E-04	3.36E-05	8.79E-08	4.29E-12
SM161	0.0	4.86E-03	8.09E-06	2.19E-26	0.0	0.0	0.0
SM162	0.0	4.21E-04	6.08E-06	1.82E-19	7.84E-35	0.0	0.0
SM163	0.0	2.43E-04	1.96E-18	0.0	0.0	0.0	0.0
SM164	0.0	8.93E-06	2.79E-14	0.0	0.0	0.0	0.0
SM165	0.0	1.89E-06	0.0	0.0	0.0	0.0	0.0
EU151	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EU152	0.0	1.64E-14	1.64E-14	1.64E-14	1.64E-14	1.64E-14	1.64E-14
EU152M	0.0	1.99E-10	1.99E-10	1.95E-10	1.91E-10	1.80E-10	1.62E-10
EU153	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EU154	0.0	1.21E-11	1.21E-11	1.21E-11	1.21E-11	1.21E-11	1.21E-11
EU155	0.0	1.43E-10	1.42E-08	1.74E-07	2.85E-07	4.14E-07	4.46E-07
EU156	0.0	5.84E-08	9.73E-08	4.73E-07	8.91E-07	2.09E-06	3.94E-06
EU157	0.0	3.85E-06	3.01E-05	1.87E-04	2.32E-04	2.37E-04	2.23E-04
EU158	0.0	1.41E-04	2.06E-04	5.68E-04	7.93E-04	8.58E-04	4.64E-04
EU159	0.0	3.47E-04	9.49E-04	1.17E-03	6.31E-04	9.31E-05	3.83E-06
EU160	0.0	2.89E-03	1.80E-03	2.86E-04	3.93E-05	1.03E-07	5.02E-12
EU161	0.0	2.27E-03	6.21E-04	3.14E-10	2.19E-17	7.38E-39	0.0

TABLE V (cont'd)

DECAY FOLLOWING BURST-RIA-ST-2

POWER= 0.34MW, BURNUP= 0.MWD, FLUX= 5.13E 14N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-ST-2(494.7 GRAMS-5.779WT% E

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
EU162	0.0	1.13E-04	1.07E-04	1.12E-05	8.57E-07	3.85E-10	1.02E-15
EU163	0.0	4.45E-04	1.83E-06	2.58E-24	1.34E-44	0.0	0.0
EU164	0.0	3.51E-04	5.70E-14	0.0	0.0	0.0	0.0
EU165	0.0	4.91E-05	3.33E-19	0.0	0.0	0.0	0.0
GD152	0.0	1.52E-32	3.69E-30	3.03E-29	6.00E-29	1.46E-28	2.77E-28
GD153	0.0	8.99E-16	8.99E-16	8.99E-16	8.99E-16	8.99E-16	8.99E-16
GD154	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GD155	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GD156	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GD157	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GD158	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GD159	0.0	1.96E-07	1.04E-06	1.29E-05	2.18E-05	2.97E-05	2.96E-05
GD160	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GD161	0.0	1.26E-04	5.71E-04	4.59E-05	2.02E-06	1.73E-10	2.87E-17
GD162	0.0	3.70E-05	4.74E-05	3.98E-05	1.47E-05	4.81E-07	1.50E-09
GD163	0.0	1.36E-04	9.38E-05	1.32E-07	7.50E-11	1.38E-20	8.23E-37
GD164	0.0	3.24E-06	3.62E-06	2.27E-06	1.33E-06	2.69E-07	1.87E-08
GD165	0.0	1.72E-05	8.06E-06	1.81E-08	1.79E-11	1.74E-20	1.66E-35
TB159	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TB160	0.0	1.05E-11	1.05E-11	1.05E-11	1.05E-11	1.05E-11	1.05E-11
TB161	0.0	5.09E-10	6.05E-08	3.09E-07	3.25E-07	3.25E-07	3.23E-07
TB162	0.0	7.00E-07	7.66E-06	3.74E-05	2.54E-05	1.53E-06	6.46E-09
TB162M	0.0	3.73E-08	4.57E-08	1.16E-07	1.48E-07	1.33E-07	8.68E-08
TB163	0.0	8.62E-07	1.01E-05	1.08E-05	5.97E-06	1.01E-06	5.22E-08
TB163M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TB164	0.0	4.68E-06	4.33E-06	2.63E-06	1.54E-06	3.12E-07	2.17E-08
TB165	0.0	2.81E-05	1.20E-05	2.72E-08	2.67E-11	2.59E-20	2.46E-35
DY160	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DY161	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DY162	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DY163	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DY164	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DY165	0.0	5.49E-09	1.41E-07	3.11E-07	2.87E-07	2.25E-07	1.49E-07
DY165M	0.0	6.11E-07	6.04E-06	1.68E-08	5.00E-11	5.22E-20	4.97E-35
DY166	0.0	4.38E-10	4.38E-10	4.37E-10	4.36E-10	4.33E-10	4.28E-10
HO165	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HO166	0.0	1.32E-11	1.36E-11	1.62E-11	1.93E-11	2.81E-11	4.23E-11
HO166M	0.0	1.97E-17	1.97E-17	1.97E-17	1.97E-17	1.97E-17	1.97E-17
ER166	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ER167	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ER167M	0.0	2.97E-09	5.85E-25	0.0	0.0	0.0	0.0
TOTAL	0.0	7.45E 04	1.11E 03	1.34E 02	6.89E 01	2.29E 01	1.01E 01

TABLE VI

FISSION PRODUCT INVENTORY FOR RIA ST-4

The column headed by DISCHARGE contains the inventory immediately after the burst and the headings of the other columns are the times since the burst. The calculation assumes 200 MeV/fission.

TABLE VI (cont'd)

DECAY FOLLOWING BURST-RIA-ST-4-20PC

POWER= 0.00MW, BURNUP= 0.MWD, FLUX= 3.21E 11N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIAST4 ROD(624.0 GRAMS UC2-

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
H 3	0.0	1.82E-17	1.82E-17	1.82E-17	1.82E-17	1.82E-17	1.82E-17
CO 72	0.0	2.43E-03	0.0	0.0	0.0	0.0	0.0
CO 73	0.0	1.45E-04	0.0	0.0	0.0	0.0	0.0
CO 74	0.0	3.59E-04	0.0	0.0	0.0	0.0	0.0
CO 75	0.0	6.12E-05	0.0	0.0	0.0	0.0	0.0
NI 72	0.0	2.09E-02	2.46E-17	0.0	0.0	0.0	0.0
NI 73	0.0	3.42E-02	0.0	0.0	0.0	0.0	0.0
NI 74	0.0	7.54E-02	0.0	0.0	0.0	0.0	0.0
NI 75	0.0	6.03E-02	0.0	0.0	0.0	0.0	0.0
NI 76	0.0	1.92E-02	0.0	0.0	0.0	0.0	0.0
NI 77	0.0	2.76E-03	0.0	0.0	0.0	0.0	0.0
NI 78	0.0	3.76E-04	0.0	0.0	0.0	0.0	0.0
CU 72	0.0	1.23E-02	2.54E-08	0.0	0.0	0.0	0.0
CU 73	0.0	5.86E-02	4.42E-11	0.0	0.0	0.0	0.0
CU 74	0.0	7.79E-01	0.0	0.0	0.0	0.0	0.0
CU 75	0.0	1.01E 00	0.0	0.0	0.0	0.0	0.0
CU 76	0.0	1.68E 00	0.0	0.0	0.0	0.0	0.0
CU 77	0.0	6.51E-01	0.0	0.0	0.0	0.0	0.0
CU 78	0.0	3.23E-01	0.0	0.0	0.0	0.0	0.0
CU 79	0.0	3.87E-02	0.0	0.0	0.0	0.0	0.0
CU 80	0.0	5.72E-03	0.0	0.0	0.0	0.0	0.0
CU 81	0.0	3.10E-04	0.0	0.0	0.0	0.0	0.0
ZN 72	0.0	6.31E-05	6.38E-05	6.36E-05	6.34E-05	6.26E-05	6.13E-05
ZN 73	0.0	1.46E-02	7.88E-04	4.20E-15	6.51E-28	0.0	0.0
ZN 74	0.0	1.47E-02	8.49E-03	1.68E-05	1.42E-08	8.68E-18	3.80E-33
ZN 75	0.0	5.30E-01	6.06E-05	0.0	0.0	0.0	0.0
ZN 76	0.0	2.46E 00	5.17E-07	0.0	0.0	0.0	0.0
ZN 77	0.0	8.91E 00	0.0	0.0	0.0	0.0	0.0
ZN 78	0.0	7.67E 00	1.03E-14	0.0	0.0	0.0	0.0
ZN 79	0.0	1.04E 01	0.0	0.0	0.0	0.0	0.0
ZN 80	0.0	3.77E 00	0.0	0.0	0.0	0.0	0.0
ZN 81	0.0	1.07E 00	0.0	0.0	0.0	0.0	0.0
ZN 82	0.0	1.08E-01	0.0	0.0	0.0	0.0	0.0
ZN 83	0.0	8.48E-03	0.0	0.0	0.0	0.0	0.0
GA 72	0.0	6.56E-05	6.56E-05	6.56E-05	6.56E-05	6.55E-05	6.52E-05
GA 73	0.0	2.24E-05	5.74E-05	5.64E-05	5.43E-05	4.82E-05	3.96E-05
GA 74	0.0	1.43E-04	2.18E-03	1.24E-03	3.03E-04	4.43E-06	3.86E-09
GA 75	0.0	8.05E-03	2.94E-02	1.40E-04	3.19E-07	3.82E-15	2.39E-28
GA 76	0.0	2.44E-01	4.05E-02	6.80E-12	5.30E-23	0.0	0.0
GA 77	0.0	2.19E 00	5.64E-03	2.37E-23	0.0	0.0	0.0
GA 78	0.0	1.43E 01	9.27E-07	0.0	0.0	0.0	0.0
GA 79	0.0	2.61E 01	6.48E-12	0.0	0.0	0.0	0.0
GA 80	0.0	5.81E 01	3.42E-20	0.0	0.0	0.0	0.0
GA 81	0.0	5.93E 01	0.0	0.0	0.0	0.0	0.0
GA 82	0.0	3.12E 01	0.0	0.0	0.0	0.0	0.0
GA 83	0.0	7.80E 00	0.0	0.0	0.0	0.0	0.0
GA 84	0.0	3.92E-01	0.0	0.0	0.0	0.0	0.0
GA 85	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GE 72	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GE 73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GE 73M	0.0	8.14E-05	5.74E-05	5.64E-05	5.43E-05	4.82E-05	3.96E-05
GE 74	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE VI (cont'd)

DECAY FOLLOWING BURST-RIA-ST-4-20PC

POWER= 0.00MW, BURNUP= 0.MWD, FLUX= 3.21E 11N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIAST4 ROD(624.0 GRAMS UC2-7

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
GE 75	0.0	2.20E-06	7.09E-04	1.25E-03	1.09E-03	7.15E-04	3.56E-04
GE 75M	0.0	1.72E-04	1.31E-03	9.78E-06	2.24E-08	2.67E-16	1.68E-29
GE 76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GE 77	0.0	5.39E-03	5.66E-03	5.63E-03	5.53E-03	5.26E-03	4.83E-03
GE 77M	0.0	5.35E-02	2.06E-01	2.75E-06	7.86E-12	1.84E-28	0.0
GE 78	0.0	1.20E-03	1.79E-02	1.59E-02	1.40E-02	9.37E-03	4.82E-03
GE 79	0.0	3.56E 00	7.97E-01	5.50E-07	5.49E-14	5.47E-35	0.0
GE 80	0.0	2.14E 01	8.10E-01	7.43E-12	2.13E-24	0.0	0.0
GE 81	0.0	7.42E 01	2.09E-02	0.0	0.0	0.0	0.0
GE 82	0.0	1.55E 02	2.20E-06	0.0	0.0	0.0	0.0
GE 83	0.0	2.49E 02	2.43E-17	0.0	0.0	0.0	0.0
GE 84	0.0	5.98E 01	0.0	0.0	0.0	0.0	0.0
GE 85	0.0	4.97E 01	0.0	0.0	0.0	0.0	0.0
GE 86	0.0	8.95E 00	0.0	0.0	0.0	0.0	0.0
GE 87	0.0	1.66E 00	0.0	0.0	0.0	0.0	0.0
GE 88	0.0	1.67E-02	0.0	0.0	0.0	0.0	0.0
AS 75	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AS 76	0.0	3.97E-07	3.97E-07	3.94E-07	3.92E-07	3.83E-07	3.69E-07
AS 77	0.0	2.36E-02	2.38E-02	2.38E-02	2.37E-02	2.34E-02	2.30E-02
AS 78	0.0	2.23E-04	4.93E-04	2.23E-03	3.74E-03	6.16E-03	6.37E-03
AS 78M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AS 79	0.0	1.14E-01	4.38E-01	1.64E-01	4.54E-02	9.65E-04	1.63E-06
AS 80	0.0	5.47E 00	2.09E 00	2.38E-11	6.81E-24	0.0	0.0
AS 81	0.0	1.13E 01	3.52E 00	1.86E-08	7.29E-18	0.0	0.0
AS 82	0.0	2.75E 01	9.73E-01	1.11E-14	1.59E-30	0.0	0.0
AS 82M	0.0	3.48E 01	6.74E-02	8.14E-22	0.0	0.0	0.0
AS 83	0.0	1.42E 02	3.87E-01	9.23E-21	0.0	0.0	0.0
AS 84	0.0	2.76E 02	1.72E-04	0.0	0.0	0.0	0.0
AS 85	0.0	4.89E 02	7.95E-16	0.0	0.0	0.0	0.0
AS 86	0.0	5.15E 02	0.0	0.0	0.0	0.0	0.0
AS 87	0.0	5.29E 02	0.0	0.0	0.0	0.0	0.0
AS 88	0.0	2.08E 01	0.0	0.0	0.0	0.0	0.0
AS 89	0.0	1.66E 00	0.0	0.0	0.0	0.0	0.0
AS 90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE 76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE 77M	0.0	7.14E-05	7.13E-05	7.13E-05	7.10E-05	7.02E-05	6.89E-05
SE 78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE 79	0.0	1.85E-08	1.85E-08	1.86E-08	1.86E-08	1.86E-08	1.86E-08
SE 79M	0.0	3.69E-04	1.04E-01	2.31E-01	7.70E-02	1.71E-03	2.83E-06
SE 80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE 81	0.0	1.49E-02	1.22E 00	7.67E-01	4.15E-01	6.86E-02	5.17E-03
SE 81M	0.0	1.24E-02	1.22E-02	1.02E-02	8.32E-03	4.54E-03	1.66E-03
SE 82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE 83	0.0	2.00E-01	8.11E-01	5.17E-01	3.05E-01	6.63E-02	5.09E-03
SE 83M	0.0	5.51E 00	1.01E 01	1.67E-03	8.39E-08	1.05E-20	3.31E-42
SE 84	0.0	1.93E 01	1.84E 01	8.44E-01	2.55E-02	7.00E-07	1.75E-14
SE 85	0.0	7.21E 01	1.18E 01	1.90E-06	3.62E-14	0.0	0.0
SE 85M	0.0	1.37E 02	1.72E 00	1.97E-14	2.82E-30	0.0	0.0
SE 86	0.0	4.18E 02	2.98E 00	3.28E-16	2.41E-34	0.0	0.0
SE 87	0.0	9.55E 02	3.49E-04	0.0	0.0	0.0	0.0
SE 88	0.0	1.05E 03	0.0	0.0	0.0	0.0	0.0

TABLE VI (cont'd)

DECAY FOLLOWING BURST-RIA-ST-4-20PC

POWER= 0.00MW, BURNUP= 0.MWD, FLUX= 3.21E 11N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIAST4 ROD(624.0 GRAMS UC2-20

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
SE 89	0.0	6.07E 02	0.0	0.0	0.0	0.0	0.0
SE 90	0.0	2.02E 02	0.0	0.0	0.0	0.0	0.0
SE 91	0.0	2.83E 01	0.0	0.0	0.0	0.0	0.0
SE 92	0.0	3.85E-01	0.0	0.0	0.0	0.0	0.0
SE 93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BR 79	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BR 79M	0.0	1.59E-06	5.88E-14	0.0	0.0	0.0	0.0
BR 80	0.0	2.35E-06	2.18E-06	1.28E-06	7.29E-07	2.10E-07	1.08E-07
BR 80M	0.0	1.52E-07	1.51E-07	1.45E-07	1.39E-07	1.22E-07	9.81E-08
BR 81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BR 82	0.0	3.47E-04	3.47E-04	3.47E-04	3.46E-04	3.40E-04	3.31E-04
BR 82M	0.0	1.13E-03	8.97E-04	1.69E-04	2.55E-05	8.70E-08	6.71E-12
BR 83	0.0	3.69E-03	1.55E-01	2.66E-01	2.77E-01	2.50E-01	1.75E-01
BR 84	0.0	5.85E-02	1.03E 00	2.19E 00	1.59E 00	5.36E-01	8.72E-02
BR 84M	0.0	3.09E-01	2.45E-01	4.51E-02	6.57E-03	2.04E-05	1.35E-09
BR 85	0.0	6.17E 00	2.86E 01	9.33E-01	1.67E-02	9.50E-08	1.73E-16
BR 86	0.0	3.20E 01	2.77E 01	4.33E-04	1.46E-09	5.54E-26	0.0
BR 86M	0.0	3.77E 02	2.05E 00	2.25E-16	1.65E-34	0.0	0.0
BR 87	0.0	1.28E 02	5.36E 01	9.59E-04	3.86E-09	2.53E-25	0.0
BR 88	0.0	8.00E 02	4.86E 00	1.06E-16	1.24E-35	0.0	0.0
BR 89	0.0	2.27E 03	2.19E-05	0.0	0.0	0.0	0.0
BR 90	0.0	3.89E 03	0.0	0.0	0.0	0.0	0.0
BR 91	0.0	2.43E 03	0.0	0.0	0.0	0.0	0.0
BR 92	0.0	1.40E 02	0.0	0.0	0.0	0.0	0.0
BR 93	0.0	4.18E 01	0.0	0.0	0.0	0.0	0.0
BR 94	0.0	2.72E 00	0.0	0.0	0.0	0.0	0.0
BR 95	0.0	5.50E-02	0.0	0.0	0.0	0.0	0.0
BR 96	0.0	3.02E-03	0.0	0.0	0.0	0.0	0.0
KR 80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KR 81	0.0	2.01E-16	2.02E-16	2.02E-16	2.02E-16	2.02E-16	2.02E-16
KR 81M	0.0	3.86E-07	7.39E-10	8.93E-30	0.0	0.0	0.0
KR 82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KR 83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KR 83M	0.0	3.90E-03	4.87E-03	2.66E-02	5.68E-02	1.09E-01	1.49E-01
KR 84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KR 85	0.0	6.19E-04	6.19E-04	6.19E-04	6.20E-04	6.20E-04	6.22E-04
KR 85M	0.0	1.86E-01	3.17E-01	6.30E-01	6.13E-01	5.39E-01	4.35E-01
KR 86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KR 87	0.0	4.51E-01	2.67E 00	2.92E 00	2.51E 00	1.59E 00	7.44E-01
KR 88	0.0	6.64E-01	2.08E 00	1.96E 00	1.83E 00	1.49E 00	1.06E 00
KR 89	0.0	8.72E 01	9.27E 01	3.72E 00	9.60E-02	1.66E-06	1.91E-14
KR 90	0.0	6.46E 02	6.49E 01	4.08E-07	1.95E-16	0.0	0.0
KR 91	0.0	2.09E 03	1.60E-01	0.0	0.0	0.0	0.0
KR 92	0.0	4.05E 03	9.50E-17	0.0	0.0	0.0	0.0
KR 93	0.0	1.89E 03	0.0	0.0	0.0	0.0	0.0
KR 94	0.0	1.91E 03	0.0	0.0	0.0	0.0	0.0
KR 95	0.0	5.27E 01	0.0	0.0	0.0	0.0	0.0
KR 96	0.0	1.08E 01	0.0	0.0	0.0	0.0	0.0
KR 97	0.0	2.35E-01	0.0	0.0	0.0	0.0	0.0
KR 98	0.0	3.86E-02	0.0	0.0	0.0	0.0	0.0
[illegible]	0.0	0.0	0.0	0.0	0.0	0.0	0.0
[illegible]	0.0	3.30E-05	3.32E-05	3.32E-05	3.32E-05	3.31E-05	3.31E-05

TABLE VI (cont'd)

DECAY FOLLOWING BURST-RIA-ST-4-20PC

POWER= 0.00MW, BURNUP= 0.MWD, FLUX= 3.21E 11N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIAST4 ROD(624.0 GRAMS UO2-2C

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
RB 86M	0.0	5.33E-03	1.37E-03	6.29E-08	7.42E-13	1.22E-27	0.0
RB 87	0.0	1.28E-12	1.28E-12	1.28E-12	1.28E-12	1.29E-12	1.29E-12
RB 88	0.0	2.01E-01	3.24E-01	1.06E 00	1.46E 00	1.58E 00	1.18E 00
RB 89	0.0	1.08E 00	1.11E 01	1.72E 01	8.47E 00	8.68E-01	1.94E-02
RB 90	0.0	2.63E 01	1.09E 02	3.05E 00	5.66E-02	5.60E-06	7.57E-12
RB 90M	0.0	9.86E 00	1.98E 01	1.98E 00	1.33E-01	4.06E-05	5.59E-11
RB 91	0.0	2.33E 02	1.51E 02	4.24E-03	2.85E-08	8.67E-24	0.0
RB 92	0.0	4.19E 03	7.40E-05	0.0	0.0	0.0	0.0
RB 93	0.0	2.99E 03	2.08E-03	0.0	0.0	0.0	0.0
RB 94	0.0	2.95E 03	1.08E-09	0.0	0.0	0.0	0.0
RB 95	0.0	6.45E 03	0.0	0.0	0.0	0.0	0.0
RB 96	0.0	1.56E 03	0.0	0.0	0.0	0.0	0.0
RB 97	0.0	2.84E 02	0.0	0.0	0.0	0.0	0.0
RB 98	0.0	4.41E 01	0.0	0.0	0.0	0.0	0.0
RB 99	0.0	3.61E 00	0.0	0.0	0.0	0.0	0.0
RB100	0.0	1.60E-01	0.0	0.0	0.0	0.0	0.0
RB101	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SR 86	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SR 87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SR 87M	0.0	5.82E-07	5.78E-07	5.44E-07	5.08E-07	4.14E-07	2.94E-07
SR 88	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SR 89	0.0	7.37E-01	7.87E-01	7.89E-01	7.91E-01	7.92E-01	7.92E-01
SR 90	0.0	5.00E-03	5.01E-03	5.03E-03	5.04E-03	5.04E-03	5.04E-03
SR 91	0.0	8.24E 00	9.04E 00	9.13E 00	8.95E 00	8.42E 00	7.61E 00
SR 92	0.0	8.47E-01	3.53E 00	3.32E 00	3.09E 00	2.50E 00	1.75E 00
SR 93	0.0	3.66E 01	6.74E 01	1.74E 01	3.72E 00	3.67E-02	1.66E-05
SR 94	0.0	3.43E 02	1.55E 02	4.86E-02	5.07E-06	5.74E-18	7.08E-38
SR 95	0.0	1.12E 03	4.93E 01	3.19E-09	8.43E-21	0.0	0.0
SR 96	0.0	4.93E 03	4.67E-06	0.0	0.0	0.0	0.0
SR 97	0.0	1.55E 04	0.0	0.0	0.0	0.0	0.0
SR 98	0.0	3.25E 03	0.0	0.0	0.0	0.0	0.0
SR 99	0.0	9.25E 02	0.0	0.0	0.0	0.0	0.0
SR100	0.0	9.67E 01	0.0	0.0	0.0	0.0	0.0
SR101	0.0	2.37E 01	0.0	0.0	0.0	0.0	0.0
SR102	0.0	1.43E 00	0.0	0.0	0.0	0.0	0.0
SR103	0.0	4.49E-02	0.0	0.0	0.0	0.0	0.0
SR104	0.0	8.54E-04	0.0	0.0	0.0	0.0	0.0
Y 89	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Y 89M	0.0	1.05E-04	5.25E-07	7.03E-24	4.71E-43	0.0	0.0
Y 90	0.0	2.18E-03	2.18E-03	2.19E-03	2.20E-03	2.22E-03	2.27E-03
Y 90M	0.0	6.75E-06	6.70E-06	6.34E-06	5.96E-06	4.95E-06	3.03E-06
Y 91	0.0	8.03E-01	8.03E-01	8.04E-01	8.05E-01	8.08E-01	8.14E-01
Y 91M	0.0	5.18E 00	5.18E 00	5.20E 00	5.20E 00	5.09E 00	4.73E 00
Y 92	0.0	8.21E-01	8.39E-01	9.60E-01	1.08E 00	1.33E 00	1.51E 00
Y 93	0.0	1.01E 01	1.02E 01	1.07E 01	1.06E 01	1.01E 01	9.19E 00
Y 93M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Y 94	0.0	1.94E 00	2.16E 01	1.91E 01	1.04E 01	1.68E 00	8.02E-02
Y 95	0.0	9.31E 00	5.16E 01	2.04E 01	6.79E 00	2.50E-01	1.02E-03
Y 96	0.0	1.07E 02	1.41E 02	1.69E 00	1.12E-02	3.19E-09	3.95E-20
Y 97	0.0	1.78E 04	0.0	0.0	0.0	0.0	0.0
	0.0	2.40E 04	0.0	0.0	0.0	0.0	0.0
		9.38E 03	0.0	0.0	0.0	0.0	0.0

TABLE VI (cont'd)

DECAY FOLLOWING BURST-RIA-ST-4-20PC

POWER= 0.00MW, BURNUP= 0.MWD, FLUX= 3.21E 11N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIAST4 ROD(624.0 GRAMS UC2-20%

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
Y100	0.0	4.30E 03	0.0	0.0	0.0	0.0	0.0
Y101	0.0	1.15E 03	0.0	0.0	0.0	0.0	0.0
Y102	0.0	4.21E 02	0.0	0.0	0.0	0.0	0.0
Y103	0.0	3.96E 01	0.0	0.0	0.0	0.0	0.0
Y104	0.0	2.29E 00	0.0	0.0	0.0	0.0	0.0
Y105	0.0	7.06E-02	0.0	0.0	0.0	0.0	0.0
Y106	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Y107	0.0	2.86E-04	0.0	0.0	0.0	0.0	0.0
ZR 90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZR 90M	0.0	4.91E-06	2.68E-08	2.54E-08	2.38E-08	1.98E-08	1.45E-08
ZR 91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZR 92	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZR 93	0.0	1.46E-07	1.46E-07	1.46E-07	1.47E-07	1.47E-07	1.48E-07
ZR 94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZR 95	0.0	8.39E-01	8.39E-01	8.43E-01	8.44E-01	8.45E-01	8.44E-01
ZR 96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZR 97	0.0	1.56E 01	1.60E 01	1.58E 01	1.57E 01	1.51E 01	1.43E 01
ZR 98	0.0	7.36E 02	7.26E 01	2.07E-07	4.03E-17	0.0	0.0
ZR 99	0.0	9.37E 03	1.29E-11	0.0	0.0	0.0	0.0
ZR100	0.0	3.69E 03	3.45E-02	0.0	0.0	0.0	0.0
ZR101	0.0	5.14E 03	6.37E-08	0.0	0.0	0.0	0.0
ZR102	0.0	3.52E 02	1.95E 01	1.08E-08	3.28E-19	0.0	0.0
ZR103	0.0	1.45E 03	5.69E-18	0.0	0.0	0.0	0.0
ZR104	0.0	1.15E 02	3.24E-08	0.0	0.0	0.0	0.0
ZR105	0.0	3.93E 01	0.0	0.0	0.0	0.0	0.0
ZR106	0.0	9.83E 00	0.0	0.0	0.0	0.0	0.0
ZR107	0.0	8.08E-01	0.0	0.0	0.0	0.0	0.0
ZR108	0.0	1.46E-02	0.0	0.0	0.0	0.0	0.0
ZR109	0.0	6.15E-04	0.0	0.0	0.0	0.0	0.0
NB 93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NB 93M	0.0	4.34E-11	4.34E-11	4.37E-11	4.39E-11	4.47E-11	4.60E-11
NB 94	0.0	1.07E-12	1.08E-12	1.08E-12	1.08E-12	1.08E-12	1.08E-12
NB 94M	0.0	7.01E-06	5.62E-06	1.11E-06	1.75E-07	6.93E-10	6.81E-14
NB 95	0.0	2.54E-02	2.55E-02	2.56E-02	2.58E-02	2.64E-02	2.73E-02
NB 95M	0.0	2.89E-03	2.89E-03	2.90E-03	2.92E-03	2.97E-03	3.05E-03
NB 96	0.0	1.77E-03	1.77E-03	1.75E-03	1.74E-03	1.70E-03	1.63E-03
NB 97	0.0	1.56E 01	1.56E 01	1.57E 01	1.57E 01	1.55E 01	1.50E 01
NB 97M	0.0	1.37E 01	1.38E 01	1.37E 01	1.35E 01	1.30E 01	1.23E 01
NB 98	0.0	8.72E 01	1.09E-11	0.0	0.0	0.0	0.0
NB 98M	0.0	1.26E-01	9.96E 00	8.77E 00	6.99E 00	3.54E 00	1.14E 00
NB 99	0.0	2.84E 02	7.76E 00	9.29E-19	2.92E-40	0.0	0.0
NB 99M	0.0	5.87E 00	3.37E 00	5.78E-02	5.70E-04	5.43E-10	5.02E-20
NB100	0.0	1.23E 03	2.61E-02	0.0	0.0	0.0	0.0
NB100M	0.0	1.23E 03	2.61E-02	0.0	0.0	0.0	0.0
NB101	0.0	1.43E 03	4.40E-02	0.0	0.0	0.0	0.0
NB102	0.0	3.52E 03	2.18E 01	1.21E-08	3.66E-19	0.0	0.0
NB103	0.0	6.42E 02	4.10E 00	5.09E-17	3.14E-36	0.0	0.0
NB104	0.0	3.06E 03	4.40E-08	0.0	0.0	0.0	0.0
NB105	0.0	4.32E 02	4.35E-18	0.0	0.0	0.0	0.0
NB106	0.0	4.07E 02	0.0	0.0	0.0	0.0	0.0
[illegible]	0.0	4.96E 01	0.0	0.0	0.0	0.0	0.0
[illegible]	0.0	4.99E 00	0.0	0.0	0.0	0.0	0.0

TABLE VI (CONT'D)

DECAY FOLLOWING BURST-RIA-ST-4-20PC

POWER= 0.00MW, BURNUP= 0.MWD, FLUX= 3.21E 11N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIAST4 ROD(624.0 GRAMS UO2-20%

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
NB109	0.0	2.27E-01	0.0	0.0	0.0	0.0	0.0
NB110	0.0	1.07E-02	0.0	0.0	0.0	0.0	0.0
NB111	0.0	5.73E-04	0.0	0.0	0.0	0.0	0.0
NB112	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MO 95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MO 96	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MO 97	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MO 98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MO 99	0.0	1.29E 01	1.31E 01	1.31E 01	1.30E 01	1.29E 01	1.27E 01
MO100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MO101	0.0	1.28E 00	3.07E 01	1.53E 01	6.93E 00	6.45E-01	1.23E-02
MO102	0.0	5.42E 00	3.20E 01	1.32E 01	4.66E 00	2.05E-01	1.13E-03
MO103	0.0	9.10E 01	9.44E 01	3.69E-03	3.54E-08	3.15E-23	0.0
MO104	0.0	7.07E 01	4.53E 01	7.99E-02	5.85E-05	2.29E-14	4.80E-30
MO105	0.0	8.14E 01	2.12E 01	2.63E-04	7.01E-10	1.32E-26	0.0
MO106	0.0	1.92E 02	2.12E-02	0.0	0.0	0.0	0.0
MO107	0.0	9.38E 01	2.22E-04	0.0	0.0	0.0	0.0
MO108	0.0	7.81E 01	0.0	0.0	0.0	0.0	0.0
MO109	0.0	1.08E 01	0.0	0.0	0.0	0.0	0.0
MO110	0.0	1.14E 00	9.22E-20	0.0	0.0	0.0	0.0
MO111	0.0	2.55E-01	0.0	0.0	0.0	0.0	0.0
MO112	0.0	1.41E-02	0.0	0.0	0.0	0.0	0.0
MO113	0.0	2.46E-03	0.0	0.0	0.0	0.0	0.0
MO114	0.0	1.06E-04	0.0	0.0	0.0	0.0	0.0
MO115	0.0	5.14E-06	0.0	0.0	0.0	0.0	0.0
TC 99	0.0	1.84E-07	1.84E-07	1.86E-07	1.87E-07	1.91E-07	1.98E-07
TC 99M	0.0	1.20E 01	1.20E 01	1.20E 01	1.20E 01	1.19E 01	1.18E 01
TC100	0.0	8.85E-03	4.89E-05	1.36E-21	2.08E-40	0.0	0.0
TC101	0.0	2.03E-03	2.99E 00	1.23E 01	1.10E 01	2.48E 00	9.00E-02
TC102	0.0	1.58E 00	3.21E 01	1.33E 01	4.69E 00	2.07E-01	1.14E-03
TC102M	0.0	2.79E-02	2.02E-02	1.90E-03	1.30E-04	4.09E-08	6.00E-14
TC103	0.0	2.65E 00	1.15E 02	1.98E-02	2.10E-07	1.89E-22	0.0
TC104	0.0	3.09E-01	5.59E 00	5.68E 00	2.99E 00	4.37E-01	1.76E-02
TC105	0.0	1.33E 00	8.96E 00	3.27E 00	7.71E-01	1.01E-02	7.42E-06
TC106	0.0	9.18E 00	8.34E 00	5.78E-07	4.22E-15	0.0	0.0
TC107	0.0	1.06E 01	2.19E 00	1.61E-09	6.70E-20	0.0	0.0
TC108	0.0	4.42E 01	8.61E-06	0.0	0.0	0.0	0.0
TC109	0.0	1.68E 00	3.61E-01	1.82E-06	1.73E-12	1.50E-30	0.0
TC110	0.0	2.94E 01	1.64E-19	0.0	0.0	0.0	0.0
TC111	0.0	6.23E 00	0.0	0.0	0.0	0.0	0.0
TC112	0.0	2.34E 00	0.0	0.0	0.0	0.0	0.0
TC113	0.0	5.74E-01	0.0	0.0	0.0	0.0	0.0
TC114	0.0	8.72E-02	0.0	0.0	0.0	0.0	0.0
TC115	0.0	8.57E-03	0.0	0.0	0.0	0.0	0.0
TC116	0.0	5.26E-04	0.0	0.0	0.0	0.0	0.0
TC117	0.0	6.97E-05	0.0	0.0	0.0	0.0	0.0
TC118	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU 99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU101	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU102	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU103	0.0	6.69E-01	6.71E-01	6.74E-01	6.74E-01	6.74E-01	6.73E-01

TABLE VI (cont'd)

DECAY FOLLOWING BURST-RIA-ST-4-20PC

POWER= 0.00MW, BURNUP= 0.MWD, FLUX= 3.21E 11N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIAST4 ROD(624.0 GRAMS UC2-20WT

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
RU104	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU105	0.0	1.39E-01	1.72E-01	4.11E-01	4.67E-01	4.30E-01	3.47E-01
RU106	0.0	9.29E-03	9.37E-03	9.38E-03	9.38E-03	9.38E-03	9.38E-03
RU107	0.0	9.35E-02	3.39E 00	3.27E-01	2.09E-02	5.44E-06	5.79E-12
RU108	0.0	2.66E-01	1.18E 00	1.22E-01	9.33E-03	4.22E-06	1.12E-11
RU109	0.0	2.25E 00	8.22E-01	6.04E-06	5.77E-12	5.01E-30	0.0
RU110	0.0	5.30E 00	4.23E-02	1.17E-18	1.80E-37	0.0	0.0
RU111	0.0	5.10E 00	2.60E-02	1.72E-19	5.16E-39	0.0	0.0
RU112	0.0	3.41E 01	0.0	0.0	0.0	0.0	0.0
RU113	0.0	6.63E 00	5.87E-13	0.0	0.0	0.0	0.0
RU114	0.0	1.40E 00	9.95E-08	0.0	0.0	0.0	0.0
RU115	0.0	1.51E 00	0.0	0.0	0.0	0.0	0.0
RU116	0.0	1.70E-01	0.0	0.0	0.0	0.0	0.0
RU117	0.0	2.33E-01	0.0	0.0	0.0	0.0	0.0
RU118	0.0	4.38E-02	0.0	0.0	0.0	0.0	0.0
RU119	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU120	0.0	2.46E-05	0.0	0.0	0.0	0.0	0.0
RH103	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RH103M	0.0	6.70E-01	6.70E-01	6.71E-01	6.71E-01	6.73E-01	6.73E-01
RH104	0.0	7.27E-05	1.12E-05	1.35E-07	9.45E-09	3.28E-12	5.60E-18
RH104M	0.0	1.61E-06	1.17E-06	1.13E-07	7.94E-09	2.75E-12	4.71E-18
RH105	0.0	3.31E 00	3.31E 00	3.30E 00	3.28E 00	3.23E 00	3.16E 00
RH105M	0.0	3.59E-02	4.03E-02	1.06E-01	1.21E-01	1.11E-01	8.97E-02
RH106	0.0	7.63E-02	1.35E-02	9.38E-03	9.38E-03	9.38E-03	9.38E-03
RH106M	0.0	1.16E-04	1.15E-04	1.06E-04	9.74E-05	7.47E-05	4.80E-05
RH107	0.0	5.48E-05	1.68E-01	5.79E-01	3.81E-01	7.82E-02	5.46E-03
RH108	0.0	1.88E-02	1.23E 00	1.30E-01	9.95E-03	4.50E-06	1.20E-11
RH108M	0.0	6.75E-04	5.34E-04	9.53E-05	1.35E-05	3.82E-08	2.14E-12
RH109	0.0	2.06E-02	7.30E-01	4.03E-03	1.85E-06	1.71E-16	3.23E-33
RH109M	0.0	3.68E-02	5.45E-01	3.74E-05	7.57E-11	1.70E-28	0.0
RH110	0.0	2.05E-01	4.96E-01	4.02E-10	1.67E-20	0.0	0.0
RH110M	0.0	1.20E 00	1.09E-12	0.0	0.0	0.0	0.0
RH111	0.0	4.24E-01	5.98E-01	3.79E-05	6.31E-10	2.92E-24	0.0
RH112	0.0	9.04E 00	3.14E-07	0.0	0.0	0.0	0.0
RH113	0.0	3.19E 01	8.71E-13	0.0	0.0	0.0	0.0
RH114	0.0	1.59E 01	1.50E-07	0.0	0.0	0.0	0.0
RH115	0.0	3.06E 00	3.28E-06	0.0	0.0	0.0	0.0
RH116	0.0	7.47E 00	0.0	0.0	0.0	0.0	0.0
RH117	0.0	1.51E 01	0.0	0.0	0.0	0.0	0.0
RH118	0.0	1.18E 00	0.0	0.0	0.0	0.0	0.0
RH119	0.0	1.69E-01	0.0	0.0	0.0	0.0	0.0
RH120	0.0	3.00E-02	0.0	0.0	0.0	0.0	0.0
RH121	0.0	3.80E-03	0.0	0.0	0.0	0.0	0.0
RH122	0.0	4.93E-04	0.0	0.0	0.0	0.0	0.0
RH123	0.0	5.27E-05	0.0	0.0	0.0	0.0	0.0
PD104	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PD105	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PD106	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PD107	0.0	6.10E-10	6.10E-10	6.11E-10	6.13E-10	6.15E-10	6.15E-10
PD108	0.0	2.15E-07	4.34E-09	1.59E-21	1.17E-35	0.0	0.0
PD109	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AG109	0.0	8.49E-02	7.98E-02	8.49E-02	8.43E-02	8.08E-02	7.52E-02

TABLE VI (cont'd)

DECAY FOLLOWING BURST-RIA-ST-4-20PC

POWER= 0.00MW, BURNUP= 0.MWD, FLUX= 3.21E 11N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIAST4 ROD(624.0 GRAMS UO2-20

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
PD109M	0.0	3.50E-05	6.05E-02	9.94E-02	8.54E-03	5.28E-06	2.36E-11
PD110	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PD111	0.0	5.88E-04	5.64E-02	5.46E-02	3.23E-02	6.74E-03	5.39E-04
PD111M	0.0	8.64E-05	1.01E-04	1.06E-04	1.02E-04	9.20E-05	7.73E-05
PD112	0.0	3.59E-02	3.68E-02	3.65E-02	3.61E-02	3.51E-02	3.35E-02
PD113	0.0	2.73E-01	3.22E-01	3.56E-04	1.61E-07	1.49E-17	2.81E-34
PD114	0.0	2.14E-01	2.56E-01	3.70E-03	3.00E-05	1.61E-11	5.67E-22
PD115	0.0	9.50E-01	1.75E-01	1.87E-08	2.24E-16	0.0	0.0
PD116	0.0	3.24E 00	9.76E-03	1.17E-21	3.67E-43	0.0	0.0
PD117	0.0	8.18E 00	7.35E-07	0.0	0.0	0.0	0.0
PD118	0.0	6.07E 00	1.38E-11	0.0	0.0	0.0	0.0
PD119	0.0	5.82E 00	4.67E-21	0.0	0.0	0.0	0.0
PD120	0.0	9.04E-01	3.17E-09	0.0	0.0	0.0	0.0
PD121	0.0	1.19E 00	0.0	0.0	0.0	0.0	0.0
PD122	0.0	1.99E-01	0.0	0.0	0.0	0.0	0.0
PD123	0.0	9.75E-02	0.0	0.0	0.0	0.0	0.0
PD124	0.0	1.64E-02	0.0	0.0	0.0	0.0	0.0
PD125	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PD126	0.0	3.40E-04	0.0	0.0	0.0	0.0	0.0
AG107	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AG108	0.0	3.79E-13	2.12E-13	6.60E-15	3.66E-15	3.45E-21	1.37E-21
AG108M	0.0	1.77E-20	1.77E-20	1.77E-20	1.77E-20	1.77E-20	1.77E-20
AG109	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AG109M	0.0	7.96E-02	7.96E-02	8.50E-02	8.43E-02	8.08E-02	7.53E-02
AG110	0.0	2.07E-10	2.07E-10	2.07E-10	2.07E-10	2.07E-10	2.07E-10
AG110M	0.0	2.34E-06	7.97E-08	1.36E-18	7.87E-31	0.0	0.0
AG111	0.0	2.04E-02	2.04E-02	2.04E-02	2.05E-02	2.04E-02	2.04E-02
AG111M	0.0	7.06E-05	2.62E-02	5.70E-02	3.37E-02	7.05E-03	5.80E-04
AG112	0.0	4.24E-02	4.24E-02	4.21E-02	4.17E-02	4.07E-02	3.90E-02
AG113	0.0	3.18E-03	5.23E-03	6.39E-03	6.17E-03	5.53E-03	4.61E-03
AG113M	0.0	1.11E-03	3.47E-02	1.41E-04	6.06E-08	5.58E-18	1.05E-34
AG114	0.0	1.51E-01	2.64E-01	3.82E-03	3.10E-05	1.66E-11	5.85E-22
AG115	0.0	1.93E-03	3.10E-02	2.16E-02	1.24E-02	2.39E-03	1.53E-04
AG115M	0.0	8.87E-02	8.05E-02	9.14E-09	1.09E-16	0.0	0.0
AG116	0.0	3.00E-02	1.26E-01	2.85E-03	3.83E-05	9.26E-11	4.04E-20
AG116M	0.0	5.34E-01	1.30E-02	1.54E-21	4.85E-43	0.0	0.0
AG117	0.0	3.77E-02	1.47E-01	3.54E-05	2.73E-09	1.26E-21	3.45E-42
AG117M	0.0	4.96E-01	9.58E-06	0.0	0.0	0.0	0.0
AG118	0.0	4.77E 01	6.18E-09	0.0	0.0	0.0	0.0
AG118M	0.0	3.04E 00	1.27E-08	0.0	0.0	0.0	0.0
AG119	0.0	5.83E 00	7.79E-06	0.0	0.0	0.0	0.0
AG120	0.0	1.72E 01	4.56E-09	0.0	0.0	0.0	0.0
AG121	0.0	5.79E 00	5.55E-12	0.0	0.0	0.0	0.0
AG122	0.0	1.56E 01	0.0	0.0	0.0	0.0	0.0
AG123	0.0	4.43E 00	0.0	0.0	0.0	0.0	0.0
AG124	0.0	3.56E 00	0.0	0.0	0.0	0.0	0.0
AG125	0.0	6.93E-01	0.0	0.0	0.0	0.0	0.0
AG126	0.0	3.63E-01	0.0	0.0	0.0	0.0	0.0
AG127	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AG128	0.0	1.56E-02	0.0	0.0	0.0	0.0	0.0
CD108	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CD109	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE VI (cont'd)

DECAY FOLLOWING BURST-RIA-ST-4-20PC

POWER= 0.00MW, BURNUP= 0.MWD, FLUX= 3.21E 11N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIAST4 ROD(624.0 GRAMS UC2-20

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
CD110	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CD111	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CD111M	0.0	2.92E-11	2.84E-11	2.30E-11	1.82E-11	8.92E-12	2.73E-12
CD112	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CD113	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CD113M	0.0	4.48E-07	4.48E-07	4.49E-07	4.49E-07	4.49E-07	4.50E-07
CD114	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CD115	0.0	2.15E-02	2.16E-02	2.16E-02	2.16E-02	2.14E-02	2.10E-02
CD115M	0.0	2.67E-04	2.68E-04	2.68E-04	2.69E-04	2.69E-04	2.69E-04
CD116	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CD117	0.0	3.43E-05	3.63E-03	4.27E-03	3.97E-03	3.18E-03	2.19E-03
CD117M	0.0	1.13E-04	1.75E-03	1.84E-03	1.73E-03	1.46E-03	1.10E-03
CD118	0.0	9.75E-03	2.27E-02	1.85E-02	1.47E-02	7.39E-03	2.35E-03
CD119	0.0	1.76E-02	5.00E-02	1.69E-02	4.96E-03	1.24E-04	2.67E-07
CD119M	0.0	5.15E-02	1.12E-01	4.67E-03	1.26E-04	2.50E-09	3.62E-17
CD120	0.0	7.93E-01	2.59E-01	1.58E-06	1.87E-12	3.13E-30	0.0
CD121	0.0	3.76E 00	8.69E-03	1.75E-23	0.0	0.0	0.0
CD122	0.0	1.12E 01	3.11E-06	0.0	0.0	0.0	0.0
CD123	0.0	6.51E 00	3.53E-04	0.0	0.0	0.0	0.0
CD124	0.0	3.62E 00	2.89E-02	1.08E-17	3.17E-35	0.0	0.0
CD125	0.0	1.53E 01	0.0	0.0	0.0	0.0	0.0
CD126	0.0	9.42E 00	2.41E-09	0.0	0.0	0.0	0.0
CD127	0.0	1.88E 01	0.0	0.0	0.0	0.0	0.0
CD128	0.0	5.94E 00	0.0	0.0	0.0	0.0	0.0
CD129	0.0	2.46E 00	0.0	0.0	0.0	0.0	0.0
CD130	0.0	5.12E 00	0.0	0.0	0.0	0.0	0.0
CD131	0.0	7.28E-01	0.0	0.0	0.0	0.0	0.0
CD132	0.0	6.63E-02	0.0	0.0	0.0	0.0	0.0
IN113	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IN113M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IN114	0.0	1.11E-09	3.50E-10	2.30E-12	2.23E-12	2.23E-12	2.23E-12
IN114M	0.0	2.31E-12	2.31E-12	2.31E-12	2.31E-12	2.31E-12	2.31E-12
IN115	0.0	1.36E-19	1.37E-19	1.37E-19	1.38E-19	1.41E-19	1.46E-19
IN115M	0.0	2.34E-02	2.34E-02	2.33E-02	2.32E-02	2.30E-02	2.27E-02
IN116	0.0	9.62E-06	2.75E-08	6.08E-27	3.84E-48	0.0	0.0
IN116M	0.0	8.59E-08	8.38E-08	6.94E-08	5.61E-08	2.96E-08	1.02E-08
IN117	0.0	1.99E-04	2.30E-04	5.06E-04	7.76E-04	1.35E-03	1.73E-03
IN117M	0.0	1.95E-04	2.32E-04	6.25E-04	1.00E-03	1.77E-03	2.25E-03
IN118	0.0	7.09E-05	6.26E-03	1.85E-02	1.60E-02	8.11E-03	2.57E-03
IN118M	0.0	2.96E-03	1.77E-10	0.0	0.0	0.0	0.0
IN119	0.0	1.11E-03	3.00E-02	7.97E-03	1.20E-03	1.79E-04	7.72E-06
IN119M	0.0	1.59E-04	9.32E-03	2.42E-02	1.73E-02	3.18E-03	1.34E-04
IN120	0.0	1.80E-02	2.17E-01	8.80E-06	1.67E-11	4.05E-29	0.0
IN120M	0.0	2.74E-01	1.37E-01	8.37E-07	9.93E-13	1.66E-30	0.0
IN121	0.0	1.23E-01	1.99E-01	7.10E-11	1.26E-21	0.0	0.0
IN121M	0.0	2.44E-02	6.18E-02	2.84E-03	8.58E-05	2.36E-09	5.90E-17
IN122	0.0	8.45E-01	6.42E-03	0.0	0.0	0.0	0.0
IN122M	0.0	2.99E 00	0.0	0.0	0.0	0.0	0.0
IN123	0.0	2.14E 00	9.35E-04	0.0	0.0	0.0	0.0
IN123M	0.0	2.44E-01	1.03E-01	3.13E-07	1.67E-13	2.57E-32	0.0
IN124	0.0	1.59E 01	3.56E-02	1.33E-17	3.89E-35	0.0	0.0
IN125	0.0	1.24E 01	1.17E-14	0.0	0.0	0.0	0.0

TABLE VI (cont'd)

DECAY FOLLOWING BURST-RIA-ST-4-20PC

POWER= 0.00MW, BURNUP= 0.MWD, FLUX= 3.21E 11N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIAST4 ROD(624.0 GRAMS UO2-20WT

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
IN125M	0.0	2.52E 00	3.17E-03	0.0	0.0	0.0	0.0
IN126	0.0	1.03E 02	4.07E-09	0.0	0.0	0.0	0.0
IN127	0.0	5.29E 01	4.99E-17	0.0	0.0	0.0	0.0
IN127M	0.0	3.13E 01	3.97E-09	0.0	0.0	0.0	0.0
IN128	0.0	7.99E 01	1.43E-08	0.0	0.0	0.0	0.0
IN129	0.0	1.88E 02	0.0	0.0	0.0	0.0	0.0
IN130	0.0	4.40E 02	0.0	0.0	0.0	0.0	0.0
IN131	0.0	1.76E 02	0.0	0.0	0.0	0.0	0.0
IN132	0.0	5.87E 01	0.0	0.0	0.0	0.0	0.0
IN133	0.0	3.67E 00	0.0	0.0	0.0	0.0	0.0
IN134	0.0	7.97E-02	0.0	0.0	0.0	0.0	0.0
SN114	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN115	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN116	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN117	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN117M	0.0	2.35E-16	2.35E-16	2.35E-16	2.35E-16	2.35E-16	2.35E-16
SN118	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN119	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN119M	0.0	5.80E-06	5.81E-06	5.84E-06	5.85E-06	5.85E-06	5.85E-06
SN120	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN121	0.0	3.76E-02	3.82E-02	3.82E-02	3.79E-02	3.71E-02	3.58E-02
SN121M	0.0	2.83E-09	2.83E-09	2.83E-09	2.82E-09	2.82E-09	2.82E-09
SN122	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN123	0.0	5.95E-04	5.98E-04	5.98E-04	5.98E-04	5.98E-04	5.98E-04
SN123M	0.0	6.32E-04	1.70E-02	1.40E-02	1.05E-02	4.42E-03	1.04E-03
SN124	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SN125	0.0	1.08E-02	1.08E-02	1.08E-02	1.08E-02	1.08E-02	1.07E-02
SN125M	0.0	4.70E-02	1.44E-01	4.95E-02	1.47E-02	3.86E-04	8.98E-07
SN126	0.0	1.34E-08	1.35E-08	1.35E-08	1.35E-08	1.35E-08	1.35E-08
SN127	0.0	3.29E-02	6.26E-02	5.78E-02	5.28E-02	4.02E-02	2.55E-02
SN127M	0.0	9.72E-01	6.95E-01	5.94E-02	3.63E-03	8.29E-07	7.07E-13
SN128	0.0	4.59E-01	5.32E-01	4.48E-01	3.68E-01	2.05E-01	7.69E-02
SN129	0.0	2.46E 00	2.18E 00	5.63E-01	1.21E-01	1.19E-03	5.37E-07
SN129M	0.0	1.30E 01	7.77E 00	1.33E-01	1.31E-03	1.25E-09	1.16E-19
SN130	0.0	2.23E 01	1.60E 01	1.02E 00	4.51E-02	3.86E-06	6.41E-13
SN131	0.0	8.52E 01	2.30E 01	1.43E-03	2.39E-08	1.11E-22	0.0
SN132	0.0	8.43E 01	1.06E 01	2.52E-06	7.50E-14	0.0	0.0
SN133	0.0	5.40E 02	0.0	0.0	0.0	0.0	0.0
SN134	0.0	5.24E 01	0.0	0.0	0.0	0.0	0.0
SN135	0.0	1.04E 01	0.0	0.0	0.0	0.0	0.0
SN136	0.0	4.67E-01	0.0	0.0	0.0	0.0	0.0
SB121	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB122	0.0	9.50E-08	9.52E-08	9.53E-08	9.50E-08	9.42E-08	9.28E-08
SB122M	0.0	5.32E-07	3.82E-07	3.40E-08	2.17E-09	5.66E-13	6.02E-19
SB123	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB124	0.0	8.69E-07	8.71E-07	8.72E-07	8.72E-07	8.72E-07	8.71E-07
SB124M	0.0	1.77E-04	7.43E-05	1.29E-07	9.44E-11	3.70E-20	7.74E-36
SB125	0.0	1.54E-04	1.54E-04	1.55E-04	1.55E-04	1.55E-04	1.56E-04
SB126	0.0	5.68E-04	5.68E-04	5.68E-04	5.67E-04	5.66E-04	5.65E-04
SB126M	0.0	1.69E-03	1.58E-03	9.23E-04	5.02E-04	8.11E-05	3.89E-06
SB127	0.0	2.26E-01	2.26E-01	2.26E-01	2.26E-01	2.24E-01	2.22E-01
SB128	0.0	1.58E-02	1.57E-02	1.55E-02	1.51E-02	1.42E-02	1.27E-02

TABLE VI (cont'd)

DECAY FOLLOWING BURST-RIA-ST-4-20PC

POWER= 0.00MW, BURNUP= 0.MWD, FLUX= 3.21E 11N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIAST4 ROD(624.0 GRAMS UC2-20w

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
SB128M	0.0	6.12E-02	1.21E-01	3.46E-01	3.82E-01	2.46E-01	9.33E-02
SB129	0.0	1.05E-01	1.72E-01	2.82E-01	2.84E-01	2.51E-01	2.01E-01
SB130	0.0	3.02E 00	2.81E 00	9.09E-01	1.75E-01	9.47E-04	1.50E-07
SB130M	0.0	7.91E-01	1.40E 00	2.18E 00	1.66E 00	6.54E-01	1.37E-01
SB131	0.0	6.67E 00	9.06E 00	6.53E 00	3.95E 00	8.76E-01	7.11E-02
SB132	0.0	4.88E 01	4.06E 01	3.59E-01	1.46E-03	9.94E-11	1.13E-22
SB132M	0.0	2.47E 01	1.76E 01	1.47E 00	8.80E-02	1.88E-05	1.43E-11
SB133	0.0	8.49E 01	5.08E 01	7.35E-01	5.97E-03	3.20E-09	1.13E-19
SB134	0.0	1.10E 03	0.0	0.0	0.0	0.0	0.0
SB134M	0.0	1.22E 02	5.12E-02	0.0	0.0	0.0	0.0
SB135	0.0	5.62E 02	3.18E-19	0.0	0.0	0.0	0.0
SB136	0.0	2.47E 02	0.0	0.0	0.0	0.0	0.0
SB137	0.0	1.76E 01	0.0	0.0	0.0	0.0	0.0
SB138	0.0	1.40E 00	0.0	0.0	0.0	0.0	0.0
SB139	0.0	7.56E-02	0.0	0.0	0.0	0.0	0.0
TE122	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TE123	0.0	9.69E-26	9.69E-26	9.69E-26	9.69E-26	9.69E-26	9.69E-26
TE123M	0.0	3.61E-12	3.61E-12	3.61E-12	3.61E-12	3.61E-12	3.61E-12
TE124	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TE125	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TE125M	0.0	6.34E-07	6.35E-07	6.39E-07	6.44E-07	6.58E-07	6.83E-07
TE126	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TE127	0.0	1.94E-01	1.94E-01	1.94E-01	1.93E-01	1.93E-01	1.93E-01
TE127M	0.0	4.14E-04	4.15E-04	4.17E-04	4.20E-04	4.27E-04	4.40E-04
TE128	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TE129	0.0	1.20E-01	1.21E-01	1.34E-01	1.50E-01	1.81E-01	1.89E-01
TE129M	0.0	4.12E-02	4.12E-02	4.12E-02	4.12E-02	4.12E-02	4.12E-02
TE130	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TE131	0.0	6.17E-01	1.01E 00	3.25E 00	3.86E 00	2.31E 00	5.63E-01
TE131M	0.0	1.06E 00	1.06E 00	1.06E 00	1.06E 00	1.04E 00	1.01E 00
TE132	0.0	8.10E 00	8.11E 00	8.13E 00	8.11E 00	8.05E 00	7.95E 00
TE133	0.0	9.51E 00	1.56E 01	1.23E 01	5.26E 00	6.07E-01	1.14E-01
TE133M	0.0	5.23E 00	5.14E 00	4.32E 00	3.50E 00	1.87E 00	6.61E-01
TE134	0.0	1.47E 01	1.51E 01	1.18E 01	8.98E 00	3.93E 00	9.94E-01
TE135	0.0	9.84E 02	1.03E 01	1.97E-14	3.72E-31	0.0	0.0
TE136	0.0	5.14E 02	9.85E 00	2.39E-12	1.11E-26	0.0	0.0
TE137	0.0	6.26E 02	3.00E-08	0.0	0.0	0.0	0.0
TE138	0.0	2.55E 02	0.0	0.0	0.0	0.0	0.0
TE139	0.0	9.45E 01	0.0	0.0	0.0	0.0	0.0
TE140	0.0	6.95E 00	0.0	0.0	0.0	0.0	0.0
TE141	0.0	4.10E-01	0.0	0.0	0.0	0.0	0.0
TE142	0.0	1.02E-02	0.0	0.0	0.0	0.0	0.0
I127	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I128	0.0	5.08E-05	4.81E-05	3.20E-05	2.02E-05	5.04E-06	5.00E-07
I129	0.0	7.42E-10	7.42E-10	7.42E-10	7.43E-10	7.43E-10	7.45E-10
I130	0.0	4.99E-04	4.99E-04	4.97E-04	4.91E-04	4.69E-04	4.34E-04
I130M	0.0	8.01E-04	6.85E-04	2.19E-04	5.97E-05	1.22E-06	1.87E-09
I131	0.0	2.54E 00	2.54E 00	2.54E 00	2.54E 00	2.54E 00	2.54E 00
I132	0.0	8.32E 00	8.32E 00	8.30E 00	8.29E 00	8.24E 00	8.16E 00
I133	0.0	1.97E 01	1.97E 01	1.97E 01	1.97E 01	1.93E 01	1.84E 01
I134	0.0	7.96E 01	7.71E-03	0.0	0.0	0.0	0.0
I135	0.0	1.87E-01	1.41E 00	3.94E 00	5.21E 00	5.52E 00	3.10E 00

TABLE VI (cont'd)

DECAY FOLLOWING BURST-R/A-ST-4-20PC

POWER= 0.00MW, BURNUP= 0.MWD, FLUX= 3.21E 11N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIAST4 ROD(624.0 GRAMS UO2-2

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
I134M	0.0	1.14E 01	7.73E 00	4.59E-01	1.85E-02	1.22E-06	1.32E-13
I135	0.0	4.53E 00	5.30E 00	5.17E 00	5.02E 00	4.60E 00	3.97E 00
I136	0.0	8.05E 01	9.05E 01	6.04E-02	1.43E-05	1.88E-16	1.38E-34
I136M	0.0	2.38E 02	4.20E 01	1.27E-04	6.81E-11	1.04E-29	0.0
I137	0.0	6.70E 02	2.63E 01	4.48E-10	2.60E-22	0.0	0.0
I138	0.0	1.34E 03	3.94E-03	0.0	0.0	0.0	0.0
I139	0.0	1.58E 03	1.42E-12	0.0	0.0	0.0	0.0
I140	0.0	1.05E 03	0.0	0.0	0.0	0.0	0.0
I141	0.0	2.32E 02	0.0	0.0	0.0	0.0	0.0
I142	0.0	1.96E 01	0.0	0.0	0.0	0.0	0.0
I143	0.0	7.76E-01	0.0	0.0	0.0	0.0	0.0
I144	0.0	3.96E-02	0.0	0.0	0.0	0.0	0.0
I145	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE128	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE129	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE129M	0.0	4.89E-09	4.89E-09	4.89E-09	4.88E-09	4.87E-09	4.84E-09
XE130	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE131	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE131M	0.0	1.57E-03	1.57E-03	1.58E-03	1.59E-03	1.62E-03	1.67E-03
XE132	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE133	0.0	6.33E 00	6.34E 00	6.35E 00	6.37E 00	6.43E 00	6.52E 00
XE133M	0.0	2.00E 00	2.00E 00	2.01E 00	2.01E 00	2.02E 00	2.03E 00
XE134	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE134M	0.0	1.79E 02	0.0	0.0	0.0	0.0	0.0
XE135	0.0	2.01E 01	2.01E 01	1.98E 01	1.95E 01	1.86E 01	1.72E 01
XE135M	0.0	1.59E 00	1.52E 00	1.15E 00	9.38E-01	7.21E-01	6.08E-01
XE136	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XE137	0.0	7.35E 01	1.13E 02	8.20E 00	4.05E-01	4.87E-05	1.43E-11
XE138	0.0	3.18E 01	3.86E 01	1.89E 01	8.36E 00	7.28E-01	1.25E-02
XE139	0.0	6.40E 02	9.45E 01	2.62E-05	9.27E-13	0.0	0.0
XE140	0.0	1.48E 03	3.45E 00	1.15E-19	0.0	0.0	0.0
XE141	0.0	3.36E 03	3.41E-18	0.0	0.0	0.0	0.0
XE142	0.0	1.37E 03	0.0	0.0	0.0	0.0	0.0
XE143	0.0	3.93E 02	0.0	0.0	0.0	0.0	0.0
XE144	0.0	2.69E 01	0.0	0.0	0.0	0.0	0.0
XE145	0.0	6.48E-01	0.0	0.0	0.0	0.0	0.0
XE146	0.0	7.21E-02	0.0	0.0	0.0	0.0	0.0
XE147	0.0	5.47E-03	0.0	0.0	0.0	0.0	0.0
CS133	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CS134	0.0	4.08E-07	4.08E-07	4.09E-07	4.09E-07	4.09E-07	4.09E-07
CS134M	0.0	1.44E-05	1.42E-05	1.34E-05	1.26E-05	1.03E-05	7.39E-06
CS135	0.0	5.73E-08	5.73E-08	5.75E-08	5.77E-08	5.82E-08	5.91E-08
CS135M	0.0	1.10E-03	1.07E-03	8.82E-04	7.10E-04	3.69E-04	1.24E-04
CS136	0.0	3.26E-03	3.26E-03	3.26E-03	3.26E-03	3.25E-03	3.24E-03
CS137	0.0	4.93E-03	4.94E-03	4.97E-03	4.97E-03	4.97E-03	4.97E-03
CS138	0.0	9.38E-01	2.61E 00	9.22E 00	1.02E 01	5.16E 00	9.44E-01
CS138M	0.0	8.34E 00	5.17E 00	1.55E-01	2.89E-03	1.87E-08	4.17E-17
CS139	0.0	1.34E 01	5.40E 01	2.06E 01	5.94E 00	1.43E-01	2.88E-04
CS140	0.0	2.04E 02	1.69E 02	1.19E-02	2.28E-07	1.60E-21	0.0
CS141	0.0	7.79E 02	3.70E 01	9.38E-10	8.53E-22	0.0	0.0
CS142	0.0	7.11E 03	5.97E-18	0.0	0.0	0.0	0.0
CS143	0.0	4.29E 03	2.47E-18	0.0	0.0	0.0	0.0

TABLE VI (cont'd)

DECAY FOLLOWING BURST-RIA-ST-4-20PC

POWER= 0.00MW, BURNUP= 0.MWD, FLUX= 3.21E 11N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIAST4 ROD(624.0 GRAMS UC2-2(

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
CS144	0.0	1.19E 03	0.0	0.0	0.0	0.0	0.0
CS145	0.0	4.11E 02	0.0	0.0	0.0	0.0	0.0
CS146	0.0	6.31E 01	0.0	0.0	0.0	0.0	0.0
CS147	0.0	4.26E 00	0.0	0.0	0.0	0.0	0.0
CS148	0.0	2.11E-01	0.0	0.0	0.0	0.0	0.0
CS149	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CS150	0.0	1.07E-04	0.0	0.0	0.0	0.0	0.0
BA134	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BA135	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BA135M	0.0	6.96E-07	6.95E-07	6.91E-07	6.86E-07	6.73E-07	6.50E-07
BA136	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BA136M	0.0	5.20E-04	5.21E-04	5.21E-04	5.21E-04	5.20E-04	5.18E-04
BA137	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BA137M	0.0	1.41E-02	1.01E-02	4.80E-03	4.70E-03	4.70E-03	4.70E-03
BA138	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BA139	0.0	7.94E-02	7.67E-01	4.92E 00	5.79E 00	4.29E 00	2.15E 00
BA140	0.0	3.92E 00	3.94E 00	3.95E 00	3.94E 00	3.94E 00	3.92E 00
BA141	0.0	7.86E 00	2.87E 01	1.70E 01	9.02E 00	1.36E 00	5.78E-02
BA142	0.0	3.10E 01	4.61E 01	1.78E 01	6.06E 00	2.38E-01	1.07E-03
BA143	0.0	1.67E 03	5.02E 00	1.67E-19	0.0	0.0	0.0
BA144	0.0	2.07E 03	1.14E 00	0.0	0.0	0.0	0.0
BA145	0.0	1.72E 03	2.62E-03	0.0	0.0	0.0	0.0
BA146	0.0	1.50E 03	5.73E-14	0.0	0.0	0.0	0.0
BA147	0.0	2.92E 02	1.77E-14	0.0	0.0	0.0	0.0
BA148	0.0	1.47E 01	1.11E-05	0.0	0.0	0.0	0.0
BA149	0.0	4.67E 00	0.0	0.0	0.0	0.0	0.0
BA150	0.0	1.44E-01	1.14E-21	0.0	0.0	0.0	0.0
BA151	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BA152	0.0	3.06E-04	0.0	0.0	0.0	0.0	0.0
LA138	0.0	1.43E-17	1.43E-17	1.43E-17	1.43E-17	1.43E-17	1.43E-17
LA139	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LA140	0.0	1.96E 00	1.96E 00	1.97E 00	1.98E 00	2.01E 00	2.05E 00
LA141	0.0	3.92E-01	5.31E-01	1.48E 00	2.01E 00	2.28E 00	1.87E 00
LA142	0.0	1.07E-01	8.39E-01	3.83E 00	4.64E 00	3.71E 00	2.00E 00
LA143	0.0	4.99E 00	3.86E 01	1.87E 01	8.21E 00	6.91E-01	1.12E-02
LA144	0.0	1.78E 02	1.25E 02	3.00E-05	8.93E-13	0.0	0.0
LA145	0.0	3.59E 02	4.75E 01	3.48E-08	1.45E-16	0.0	0.0
LA146	0.0	1.15E 03	7.54E-02	0.0	0.0	0.0	0.0
LA147	0.0	5.34E 02	1.51E-01	0.0	0.0	0.0	0.0
LA148	0.0	1.18E 03	1.42E-05	0.0	0.0	0.0	0.0
LA149	0.0	1.28E 02	3.17E-11	0.0	0.0	0.0	0.0
LA150	0.0	5.64E 01	1.78E-21	0.0	0.0	0.0	0.0
LA151	0.0	3.99E 00	0.0	0.0	0.0	0.0	0.0
LA152	0.0	4.63E-01	0.0	0.0	0.0	0.0	0.0
LA153	0.0	2.17E-02	0.0	0.0	0.0	0.0	0.0
LA154	0.0	9.86E-04	0.0	0.0	0.0	0.0	0.0
LA155	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CE140	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CE	0.0	1.55E 00	1.55E 00	1.55E 00	1.55E 00	1.55E 00	1.55E 00
CE	0.0	1.33E-12	1.33E-12	1.33E-12	1.33E-12	1.34E-12	1.34E-12
CE	0.0	1.71E 01	1.71E 01	1.71E 01	1.71E 01	1.69E 01	1.64E 01
CE144	0.0	1.66E-01	1.66E-01	1.67E-01	1.67E-01	1.67E-01	1.66E-01

TABLE VI (cont'd)

DECAY FOLLOWING BURST-RIA-ST-4-20PC

POWER= 0.00Mw, BURNUP= 0.MWD, FLUX= 3.21E 11N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIAST4 ROD(624.0 GRAMS UO2-

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
CE145	0.0	7.45E 00	9.10E 01	4.55E 00	1.37E-01	3.77E-06	9.44E-14
CE146	0.0	5.14E 00	1.85E 01	9.05E 00	4.01E 00	3.50E-01	5.98E-03
CE147	0.0	9.70E 01	6.01E 01	9.88E-03	4.95E-07	6.21E-20	1.95E-41
CE148	0.0	1.66E 02	2.97E 01	2.05E-05	2.05E-12	2.04E-33	0.0
CE149	0.0	3.00E 03	4.87E-11	0.0	0.0	0.0	0.0
CE150	0.0	1.20E 03	4.02E-21	0.0	0.0	0.0	0.0
CE151	0.0	3.10E 02	0.0	0.0	0.0	0.0	0.0
CE152	0.0	5.51E 00	1.48E-02	1.95E-21	6.82E-43	0.0	0.0
CE153	0.0	3.99E 00	4.57E-21	0.0	0.0	0.0	0.0
CE154	0.0	1.57E-01	1.37E-11	0.0	0.0	0.0	0.0
CE155	0.0	3.70E-02	0.0	0.0	0.0	0.0	0.0
CE156	0.0	1.77E-03	0.0	0.0	0.0	0.0	0.0
CE157	0.0	2.42E-04	0.0	0.0	0.0	0.0	0.0
PR141	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PR142	0.0	1.66E-07	1.66E-07	1.66E-07	1.65E-07	1.60E-07	1.53E-07
PR142M	0.0	1.90E-07	1.72E-07	8.59E-08	3.89E-08	3.63E-09	6.94E-11
PR143	0.0	1.98E 00	1.98E 00	1.99E 00	2.00E 00	2.02E 00	2.07E 00
PR144	0.0	1.65E-01	1.65E-01	1.66E-01	1.66E-01	1.66E-01	1.65E-01
PR144M	0.0	2.44E-03	2.36E-03	2.09E-03	2.02E-03	2.00E-03	2.00E-03
PR145	0.0	1.75E 00	2.04E 00	2.83E 00	2.78E 00	2.53E 00	2.15E 00
PR146	0.0	3.61E-02	1.12E 00	5.16E 00	5.48E 00	2.17E 00	2.37E-01
PR147	0.0	4.88E-01	1.29E 01	8.30E 00	3.17E 00	1.76E-01	1.43E-03
PR148	0.0	8.24E 00	4.49E 01	3.81E-01	1.19E-03	3.55E-11	1.02E-23
PR149	0.0	2.05E 01	2.47E 01	2.97E-01	1.96E-03	5.60E-10	6.93E-21
PR150	0.0	1.73E 02	3.55E-01	1.54E-22	0.0	0.0	0.0
PR151	0.0	3.25E 02	4.00E-07	0.0	0.0	0.0	0.0
PR152	0.0	7.13E 01	3.95E-02	4.79E-21	1.67E-42	0.0	0.0
PR153	0.0	2.20E 01	5.01E-04	0.0	0.0	0.0	0.0
PR154	0.0	1.94E 01	2.15E-11	0.0	0.0	0.0	0.0
PR155	0.0	1.69E 00	1.51E-19	0.0	0.0	0.0	0.0
PR156	0.0	4.24E-01	0.0	0.0	0.0	0.0	0.0
PR157	0.0	3.60E-02	0.0	0.0	0.0	0.0	0.0
PR158	0.0	3.80E-03	0.0	0.0	0.0	0.0	0.0
PR159	0.0	1.35E-04	0.0	0.0	0.0	0.0	0.0
ND142	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ND143	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ND144	0.0	2.44E-19	2.44E-19	2.46E-19	2.48E-19	2.53E-19	2.62E-19
ND145	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ND146	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ND147	0.0	1.63E 00	[illegible] 00	1.64E 00	1.64E 00	1.64E 00	1.63E 00
ND148	0.0	0.0	[illegible]	0.0	0.0	0.0	0.0
ND149	0.0	1.82E-	[illegible]-01	9.25E-01	8.33E-01	5.97E-01	3.42E-01
ND150	0.0	0.0	[illegible]	0.0	0.0	0.0	0.0
ND151	0.0	1.10E 00	[illegible]	1.29E 00	5.09E-01	3.11E-02	2.95E-04
ND152	0.0	1.24E 00	1.97E [illegible]	8.15E-01	2.99E-01	1.47E-02	9.65E-05
ND153	0.0	9.92E 00	3.76E [illegible]	4.50E-04	1.57E-08	6.68E-22	0.0
ND154	0.0	5.45E-02	5.45E-02	5.44E-02	5.44E-02	5.42E-02	5.39E-02
ND155	0.0	3.58E 00	1.53E-01	1.05E-11	2.94E-23	0.0	0.0
ND156	0.0	3.39E-01	8.26E-02	2.44E-06	1.74E-11	6.32E-27	0.0
ND157	0.0	7.33E-01	1.45E-09	0.0	0.0	0.0	0.0
ND158	0.0	5.24E-02	1.38E-06	0.0	0.0	0.0	0.0
ND159	0.0	1.74E-02	0.0	0.0	0.0	0.0	0.0

TABLE VI (cont'd)

DECAY FOLLOWING BURST-RIA-ST-4-20PC

POWER= 0.00MW, BURNUP= 0.MWD, FLUX= 3.21E 11N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIAST4 ROD(624.0 GRAMS UC2-2

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
ND160	0.0	2.31E-03	2.15E-20	0.0	0.0	0.0	0.0
ND161	0.0	1.67E-04	0.0	0.0	0.0	0.0	0.0
PM147	0.0	1.93E-03	1.94E-03	1.95E-03	1.96E-03	2.00E-03	2.07E-03
PM148	0.0	7.59E-06	7.59E-06	7.58E-06	7.57E-06	7.53E-06	7.48E-06
PM148M	0.0	1.57E-07	1.57E-07	1.37E-07	1.56E-07	1.56E-07	1.56E-07
PM149	0.0	2.69E 00	2.69E 00	2.68E 00	2.67E 00	2.65E 00	2.61E 00
PM150	0.0	3.42E-04	3.39E-04	3.19E-04	2.96E-04	2.39E-04	1.67E-04
PM151	0.0	1.23E 00	1.23E 00	1.24E 00	1.24E 00	1.22E 00	1.17E 00
PM152	0.0	8.82E-02	6.57E-01	1.07E 00	4.52E-01	2.29E-02	1.50E-04
PM152M	0.0	4.73E-02	3.93E-02	1.01E-02	2.17E-03	2.14E-05	9.67E-09
PM153	0.0	2.95E-01	1.86E 00	4.34E-01	5.11E-02	8.49E-05	1.92E-09
PM154	0.0	3.69E-01	2.59E-01	6.08E-02	5.45E-02	5.42E-02	5.39E-02
PM154M	0.0	4.89E-01	2.27E-01	7.99E-04	1.30E-06	5.63E-15	6.51E-29
PM155	0.0	2.24E 00	8.02E-01	6.71E-08	3.92E-16	0.0	0.0
PM156	0.0	3.13E 00	1.11E-01	3.15E-06	2.25E-11	8.15E-27	0.0
PM157	0.0	2.54E-01	8.88E-02	1.13E-05	4.25E-10	2.25E-23	0.0
PM158	0.0	1.25E 00	2.67E-06	0.0	0.0	0.0	0.0
PM159	0.0	1.74E-01	5.28E-10	0.0	0.0	0.0	0.0
PM160	0.0	1.68E-01	4.05E-20	0.0	0.0	0.0	0.0
PM161	0.0	4.89E-03	0.0	0.0	0.0	0.0	0.0
PM162	0.0	3.29E-04	0.0	0.0	0.0	0.0	0.0
SM147	0.0	2.72E-17	2.73E-17	2.76E-17	2.81E-17	2.93E-17	3.14E-17
SM148	0.0	3.16E-24	3.16E-24	3.18E-24	3.20E-24	3.26E-24	3.37E-24
SM149	0.0	1.01E-18	1.01E-18	1.02E-18	1.03E-18	1.04E-18	1.07E-18
SM150	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SM151	0.0	6.43E-05	6.43E-05	6.46E-05	6.49E-05	6.58E-05	6.72E-05
SM152	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SM153	0.0	4.22E-01	4.23E-01	4.26E-01	4.25E-01	4.20E-01	4.11E-01
SM154	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SM155	0.0	1.04E-02	1.15E-01	8.93E-02	5.30E-02	1.11E-02	8.25E-04
SM156	0.0	1.92E-02	2.07E-02	2.06E-02	2.01E-02	1.89E-02	1.71E-02
SM157	0.0	3.54E-02	5.70E-02	2.01E-02	4.74E-03	6.23E-05	4.56E-08
SM158	0.0	4.75E-03	6.50E-03	5.16E-03	3.97E-03	1.80E-03	4.85E-04
SM159	0.0	2.62E-02	1.86E-02	4.32E-04	6.02E-06	1.63E-11	8.55E-21
SM160	0.0	4.56E-03	3.99E-03	6.95E-04	9.54E-05	2.49E-07	1.22E-11
SM161	0.0	1.33E-02	2.19E-05	5.93E-26	0.0	0.0	0.0
SM162	0.0	1.12E-03	1.61E-05	4.84E-19	2.08E-34	0.0	0.0
SM163	0.0	6.28E-04	5.06E-18	0.0	0.0	0.0	0.0
SM164	0.0	2.14E-05	6.69E-14	0.0	0.0	0.0	0.0
SM165	0.0	4.37E-06	0.0	0.0	0.0	0.0	0.0
EU151	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EU152	0.0	1.30E-11	1.30E-11	1.30E-11	1.30E-11	1.30E-11	1.30E-11
EU152M	0.0	8.53E-09	8.51E-09	8.36E-09	8.19E-09	7.69E-09	6.94E-09
EU153	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EU154	0.0	4.53E-09	4.53E-09	4.53E-09	4.53E-09	4.53E-09	4.53E-09
EU155	0.0	1.66E-04	1.66E-04	1.67E-04	1.67E-04	1.67E-04	1.67E-04
EU156	0.0	6.94E-03	6.94E-03	6.94E-03	6.95E-03	6.97E-03	7.00E-03
EU157	0.0	1.63E-02	1.63E-02	1.66E-02	1.65E-02	1.59E-02	1.50E-02
EU158	0.0	4.07E-04	5.91E-04	1.62E-03	2.27E-03	2.45E-03	1.32E-03
EU159	0.0	9.97E-04	2.71E-03	3.33E-03	1.80E-03	2.65E-04	1.09E-05
EU[illegible]	0.0	8.30E-03	5.13E-03	8.13E-04	1.12E-04	2.91E-07	1.42E-11
EU[illegible]		6.48E-03	1.73E-03	8.76E-10	6.10E-17	2.06E-38	0.0

TABLE VI (cont'd)

DECAY FOLLOWING BURST-RIA-ST-4-20PC

POWER= 0.00MW, BURNUP= 0.MWD, FLUX= 3.21E 11N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIAST4 ROD(624.0 GRAMS UO2-20

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
EU162	0.0	3.13E-04	2.97E-04	3.11E-05	2.38E-06	1.07E-09	2.83E-15
EU163	0.0	1.25E-03	5.07E-06	7.15E-24	3.71E-44	0.0	0.0
EU164	0.0	9.55E-04	1.37E-13	0.0	0.0	0.0	0.0
EU165	0.0	1.32E-04	8.92E-19	0.0	0.0	0.0	0.0
GD152	0.0	8.30E-25	8.30E-25	8.31E-25	8.33E-25	8.36E-25	8.42E-25
GD153	0.0	3.34E-13	3.34E-13	3.34E-13	3.34E-13	3.34E-13	3.34E-13
GD154	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GD155	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GD156	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GD157	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GD158	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GD159	0.0	2.94E-03	2.94E-03	2.95E-03	2.95E-03	2.88E-03	2.74E-03
GD160	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GD161	0.0	3.63E-04	1.61E-03	1.29E-04	5.68E-06	4.86E-10	8.06E-17
GD162	0.0	1.06E-04	1.35E-04	1.12E-04	4.12E-05	1.35E-06	4.18E-09
GD163	0.0	3.90E-04	2.65E-04	3.69E-07	2.10E-10	3.87E-20	2.31E-36
GD164	0.0	9.20E-06	1.02E-05	6.38E-06	3.74E-06	7.57E-07	5.28E-08
GD165	0.0	4.86E-05	2.27E-05	5.17E-08	5.12E-11	4.97E-20	4.73E-35
TB159	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TB160	0.0	3.85E-09	3.85E-09	3.85E-09	3.85E-09	3.85E-09	3.85E-09
TB161	0.0	9.92E-05	9.94E-05	1.00E-04	9.99E-05	9.96E-05	9.90E-05
TB162	0.0	2.01E-06	2.19E-05	1.05E-04	7.14E-05	4.29E-06	1.81E-08
TB162M	0.0	1.08E-07	1.32E-07	3.28E-07	4.19E-07	3.75E-07	2.45E-07
TB163	0.0	2.48E-06	2.86E-05	3.05E-05	1.69E-05	2.86E-06	1.48E-07
TB163M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TB164	0.0	1.34E-05	1.23E-05	7.42E-06	4.35E-06	8.79E-07	6.12E-08
TB165	0.0	8.04E-05	3.40E-05	7.67E-08	7.60E-11	7.38E-20	7.02E-35
DY160	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DY161	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DY162	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DY163	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DY164	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DY165	0.0	1.77E-08	4.03E-07	8.85E-07	8.16E-07	6.38E-07	4.24E-07
DY165M	0.0	1.77E-06	1.72E-05	4.76E-08	1.42E-10	1.49E-19	1.42E-34
DY166	0.0	1.19E-07	1.19E-07	1.19E-07	1.19E-07	1.18E-07	1.16E-07
HO165	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HO166	0.0	8.62E-08	8.63E-08	8.65E-08	8.67E-08	8.74E-08	8.84E-08
HO166M	0.0	7.36E-15	7.36E-15	7.36E-15	7.36E-15	7.36E-15	7.36E-15
ER166	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ER167	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ER167M	0.0	8.55E-09	1.68E-24	0.0	0.0	0.0	0.0
TOTAL	0.0	2.14E 05	3.40E 03	5.93E 02	4.04E 02	2.67E 02	2.21E 02

TABLE VII

FISSION PRODUCT INVENTORY FOR RIA 1-1 FRESH FUEL

The column labeled DISCHARGE refers to the time immediately following the final burst and the times heading the following columns are times since the final burst. The calculation is for the two fresh pins and is based on an energy deposition rate in the pins of 180 MeV/fission.

TABLE VII (cont'd)

RIA-1-1-FRESH 18CMEV/F-DECAY-5.8SPECT

POWER= .00MW, BURNUP= 0.MWD, FLUX= 2.01E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-FRESH(525.3G-5.78PC-

		CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
H	3	0.	1.09E-15	1.09E-15	1.09E-15	1.09E-15	1.09E-15	1.09E-15
CD	72	0.	1.04E-03	0.	0.	0.	0.	0.
CD	73	0.	6.19E-05	0.	0.	0.	0.	0.
CD	74	0.	1.53E-04	0.	0.	0.	0.	0.
CD	75	0.	2.62E-05	0.	0.	0.	0.	0.
NI	72	0.	1.56E-02	1.83E-17	0.	0.	0.	0.
NI	73	0.	1.70E-02	0.	0.	0.	0.	0.
NI	74	0.	4.29E-02	0.	0.	0.	0.	0.
NI	75	0.	2.61E-02	0.	0.	0.	0.	0.
NI	76	0.	8.74E-03	0.	0.	0.	0.	0.
NI	77	0.	1.18E-03	0.	0.	0.	0.	0.
NI	78	0.	1.62E-04	0.	0.	0.	0.	0.
CU	72	0.	1.07E-02	2.04E-08	0.	0.	0.	0.
CU	73	0.	4.67E-02	3.44E-11	0.	0.	0.	0.
CU	74	0.	4.40E-01	0.	0.	0.	0.	0.
CU	75	0.	6.06E-01	0.	0.	0.	0.	0.
CU	76	0.	7.41E-01	0.	0.	0.	0.	0.
CU	77	0.	3.02E-01	0.	0.	0.	0.	0.
CU	78	0.	1.37E-01	0.	0.	0.	0.	0.
CU	79	0.	1.66E-02	0.	0.	0.	0.	0.
CU	80	0.	2.46E-03	0.	0.	0.	0.	0.
CU	81	0.	1.36E-04	0.	0.	0.	0.	0.
ZN	72	0.	7.99E-05	8.05E-05	8.02E-05	7.98E-05	7.89E-05	7.72E-05
ZN	73	0.	1.28E-02	6.56E-04	3.50E-15	5.43E-28	0.	0.
ZN	74	0.	1.38E-02	7.15E-03	1.42E-05	1.20E-08	7.31E-18	3.20E-33
ZN	75	0.	4.53E-01	4.44E-05	0.	0.	0.	0.
ZN	76	0.	1.98E+00	4.10E-07	0.	0.	0.	0.
ZN	77	0.	6.10E+00	0.	0.	0.	0.	0.
ZN	78	0.	5.70E+00	7.66E-15	0.	0.	0.	0.
ZN	79	0.	5.12E+00	0.	0.	0.	0.	0.
ZN	80	0.	2.20E+00	0.	0.	0.	0.	0.
ZN	81	0.	4.58E-01	0.	0.	0.	0.	0.
ZN	82	0.	4.69E-02	0.	0.	0.	0.	0.
ZN	83	0.	3.66E-03	0.	0.	0.	0.	0.
GA	72	0.	1.14E-04	1.14E-04	1.13E-04	1.13E-04	1.12E-04	1.09E-04
GA	73	0.	1.32E-06	3.06E-05	3.04E-05	2.92E-05	2.59E-05	2.13E-05
GA	74	0.	1.31E-04	1.84E-03	1.04E-03	2.56E-04	3.74E-06	3.26E-09
GA	75	0.	8.17E-03	2.48E-02	1.18E-04	2.69E-07	3.22E-15	2.02E-28
GA	76	0.	2.28E-01	3.38E-02	5.67E-12	4.42E-23	0.	0.
GA	77	0.	1.96E+00	4.50E-03	1.89E-23	0.	0.	0.
GA	78	0.	1.16E+01	7.32E-07	0.	0.	0.	0.
GA	79	0.	2.01E+01	4.89E-12	0.	0.	0.	0.
GA	80	0.	4.12E+01	2.41E-20	0.	0.	0.	0.
GA	81	0.	3.46E+01	0.	0.	0.	0.	0.
GA	82	0.	1.24E+01	0.	0.	0.	0.	0.
GA	83	0.	3.35E+00	0.	0.	0.	0.	0.
GA	84	0.	1.71E-01	0.	0.	0.	0.	0.
GA	85	0.	0.	0.	0.	0.	0.	0.
GE	72	0.	0.	0.	0.	0.	0.	0.
GE	73	0.	0.	0.	0.	0.	0.	0.
GE	73M	0.	3.31E-05	3.06E-05	3.04E-05	2.92E-05	2.59E-05	2.13E-05
GE	74	0.	0.	0.	0.	0.	0.	0.

TABLE VII (cont'd)

RIA-1-1-FRESH 180 MEV/F-DECAY-5.8SPECT

POWER= .00MW, BURNUP= 0.MWD, FLUX= 2.01E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-FRESH(525.3G-5.78PC-

		CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
GE	75	0.	2.42E-06	5.99E-04	1.05E-03	9.18E-04	6.04E-04	3.01E-04
GE	75M	0.	1.47E-04	1.11E-03	8.25E-06	1.89E-08	2.26E-16	1.41E-29
GE	76	0.	0.	0.	0.	0.	0.	0.
GE	77	0.	1.22E-04	3.52E-04	3.95E-04	3.88E-04	3.69E-04	3.38E-04
GE	77M	0.	5.59E-02	1.73E-01	2.30E-06	6.57E-12	1.54E-28	0.
GE	78	0.	1.79E-03	1.51E-02	1.35E-02	1.18E-02	7.92E-03	4.08E-03
GE	79	0.	3.14E+00	6.68E-01	4.62E-07	4.61E-14	4.59E-35	0.
GE	80	0.	1.84E+01	6.75E-01	6.19E-12	1.77E-24	0.	0.
GE	81	0.	6.17E+01	1.71E-02	0.	0.	0.	0.
GE	82	0.	1.23E+02	1.73E-06	0.	0.	0.	0.
GE	83	0.	1.79E+02	1.74E-17	0.	0.	0.	0.
GE	84	0.	3.98E+01	0.	0.	0.	0.	0.
GE	85	0.	2.22E+01	0.	0.	0.	0.	0.
GE	86	0.	4.07E+00	0.	0.	0.	0.	0.
GE	87	0.	7.66E-01	0.	0.	0.	0.	0.
GE	88	0.	7.35E-03	0.	0.	0.	0.	0.
AS	75	0.	0.	0.	0.	0.	0.	0.
AS	76	0.	1.49E-07	1.49E-07	1.48E-07	1.47E-07	1.44E-07	1.39E-07
AS	77	0.	2.35E-02	2.36E-02	2.36E-02	2.35E-02	2.31E-02	2.26E-02
AS	78	0.	1.88E-04	4.16E-04	1.88E-03	3.16E-03	5.21E-03	5.39E-03
AS	78M	0.	0.	0.	0.	0.	0.	0.
AS	79	0.	9.86E-02	3.70E-01	1.38E-01	3.83E-02	8.14E-04	1.33E-06
AS	80	0.	4.91E+00	1.75E+00	1.98E-11	5.67E-24	0.	0.
AS	81	0.	1.02E+01	2.95E+00	1.55E-08	6.10E-18	0.	0.
AS	82	0.	2.51E+01	8.10E-01	9.25E-15	1.33E-30	0.	0.
AS	83	0.	2.87E+01	5.52E-02	6.67E-22	0.	0.	0.
AS	83	0.	1.21E+02	3.18E-01	7.53E-21	0.	0.	0.
AS	84	0.	2.23E+02	1.38E-04	0.	0.	0.	0.
AS	85	0.	3.56E+02	5.75E-16	0.	0.	0.	0.
AS	86	0.	3.20E+02	0.	0.	0.	0.	0.
AS	87	0.	2.46E+02	0.	0.	0.	0.	0.
AS	88	0.	8.90E+00	0.	0.	0.	0.	0.
AS	89	0.	7.14E-01	0.	0.	0.	0.	0.
AS	90	0.	0.	0.	0.	0.	0.	0.
SE	76	0.	0.	0.	0.	0.	0.	0.
SE	77	0.	0.	0.	0.	0.	0.	0.
SE	77M	0.	7.10E-05	7.08E-05	7.08E-05	7.04E-05	6.94E-05	6.77E-05
SE	78	0.	0.	0.	0.	0.	0.	0.
SE	79	0.	1.24E-07	1.24E-07	1.24E-07	1.24E-07	1.24E-07	1.24E-07
SE	79M	0.	4.58E-04	8.80E-02	1.95E-01	6.49E-02	1.44E-03	2.34E-06
SE	80	0.	0.	0.	0.	0.	0.	0.
SE	81	0.	1.58E-02	1.02E+00	6.43E-01	3.48E-01	5.76E-02	4.35E-03
SE	81M	0.	1.05E-02	1.03E-02	8.60E-03	7.03E-03	3.84E-03	1.40E-03
SE	82	0.	0.	0.	0.	0.	0.	0.
SE	83	0.	1.80E-01	6.83E-01	4.36E-01	2.61E-01	5.59E-02	4.29E-03
SE	83M	0.	5.02E+00	8.51E+00	1.41E-03	7.04E-08	8.83E-21	2.78E-42
SE	84	0.	1.67E+01	1.55E+01	7.13E-01	2.15E-02	5.91E-07	1.46E-14
SE	85	0.	6.35E+01	9.86E+00	1.59E-06	3.04E-14	0.	0.
SE	85M	0.	1.14E+02	1.43E+00	1.63E-14	2.34E-30	0.	0.
SE	86	0.	3.52E+02	2.47E+00	2.72E-16	2.00E-34	0.	0.
SE	87	0.	7.71E+02	2.78E-04	0.	0.	0.	0.
SE	88	0.	7.29E+02	0.	0.	0.	0.	0.

TABLE VII (cont'd)

RIA-1-1-FRESH 18CMEV/F-DECAY-5.8SPECT

POWER= .00MW, BURNUP= 0.MWD, FLUX= 2.01E+12N/CM**2-SEC

NUCLIDE RADICACTIVITY, CURIES
BASIS = RIA-1-1-FRESH(525.3G-5.78PC-

		CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
SE	89	0.	3.05E+02	0.	0.	0.	0.	0.
SE	90	0.	1.10E+02	0.	0.	0.	0.	0.
SE	91	0.	1.23E+01	0.	0.	0.	0.	0.
SE	92	0.	1.80E-01	0.	0.	0.	0.	0.
SE	93	0.	0.	0.	0.	0.	0.	0.
BR	79	0.	0.	0.	0.	0.	0.	0.
BR	79M	0.	1.27E-06	4.69E-14	0.	0.	0.	0.
BR	80	0.	1.95E-06	1.81E-06	1.05E-06	5.84E-07	1.49E-07	6.85E-08
BR	80M	0.	9.54E-08	9.49E-08	9.13E-08	8.74E-08	7.67E-08	6.17E-08
BR	81	0.	0.	0.	0.	0.	0.	0.
BR	82	0.	2.63E-04	2.63E-04	2.64E-04	2.63E-04	2.58E-04	2.51E-04
BR	82M	0.	9.62E-04	7.66E-04	1.45E-04	2.18E-05	7.42E-08	5.73E-12
BR	83	0.	2.55E-03	1.30E-01	2.24E-01	2.33E-01	2.10E-01	1.47E-01
BR	84	0.	5.25E-02	8.72E-01	1.86E+00	1.35E+00	4.53E-01	7.37E-02
BR	84M	0.	2.61E-01	2.07E-01	3.81E-02	5.55E-03	1.72E-05	1.13E-09
BR	85	0.	5.56E+00	2.41E+01	7.87E-01	1.41E-02	8.01E-08	1.45E-16
BR	86	0.	2.80E+01	2.33E+01	3.64E-04	1.22E-09	4.65E-26	0.
BR	86M	0.	3.08E+02	1.70E+00	1.87E-16	1.37E-34	0.	0.
BR	87	0.	1.13E+02	4.51E+01	8.06E-04	3.25E-09	2.12E-25	0.
BR	88	0.	6.77E+02	4.03E+00	8.79E-17	1.03E-35	0.	0.
BR	89	0.	1.80E+03	1.72E-05	0.	0.	0.	0.
BR	90	0.	2.73E+03	0.	0.	0.	0.	0.
BR	91	0.	1.35E+03	0.	0.	0.	0.	0.
BR	92	0.	6.59E+01	0.	0.	0.	0.	0.
BR	93	0.	1.84E+01	0.	0.	0.	0.	0.
BR	94	0.	1.17E+00	0.	0.	0.	0.	0.
BR	95	0.	2.47E-02	0.	0.	0.	0.	0.
BR	96	0.	1.37E-03	0.	0.	0.	0.	0.
KR	80	0.	0.	0.	0.	0.	0.	0.
KR	81	0.	1.33E-15	1.33E-15	1.33E-15	1.33E-15	1.33E-15	1.33E-15
KR	81M	0.	3.3CE-07	6.34E-10	7.66E-30	0.	0.	0.
KR	82	0.	0.	0.	0.	0.	0.	0.
KR	83	0.	0.	0.	0.	0.	0.	0.
KR	83M	0.	3.31E-06	8.60E-04	1.94E-02	4.00E-02	8.92E-02	1.24E-01
KR	84	0.	0.	0.	0.	0.	0.	0.
KR	85	0.	4.05E-03	4.05E-03	4.05E-03	4.05E-03	4.05E-03	4.05E-03
KR	85M	0.	4.68E-03	1.16E-01	3.86E-01	3.78E-01	3.32E-01	2.68E-01
KR	86	0.	0.	0.	0.	0.	0.	0.
KR	87	0.	3.90E-01	2.26E+00	2.46E+00	2.12E+00	1.34E+00	6.27E-01
KR	88	0.	5.65E-01	1.73E+00	1.64E+00	1.53E+00	1.24E+00	8.82E-01
KR	89	0.	7.69E+01	7.83E+01	3.14E+00	8.10E-02	1.40E-06	1.61E-14
KR	90	0.	5.69E+02	5.43E+01	3.41E-07	1.63E-16	0.	0.
KR	91	0.	1.75E+03	1.30E-01	0.	0.	0.	0.
KR	92	0.	2.90E+03	6.78E-17	0.	0.	0.	0.
KR	93	0.	1.27E+03	0.	0.	0.	0.	0.
KR	94	0.	8.37E+02	0.	0.	0.	0.	0.
KR	95	0.	2.84E+01	0.	0.	0.	0.	0.
KR	96	0.	5.61E+00	0.	0.	0.	0.	0.
KR	97	0.	1.04E-01	0.	0.	0.	0.	0.
KR	98	0.	1.84E-02	0.	0.	0.	0.	0.
RB	85	0.	0.	0.	0.	0.	0.	0.
RB	86	0.	1.83E-04	1.83E-04	1.83E-04	1.83E-04	1.82E-04	1.82E-04

TABLE VII (cont'd)

RIA-1-1-FRESH 180MEV/F-DECAY-5.8SPECT

POWER= .00MW, BURNUP= 0.MWD, F ,X= 2.01E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-FRESH(525.3G-5.78PC-

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
RB 86M	0.	4.49E-03	1.15E-03	5.29E-08	6.24E-13	1.02E-27	0.
RB 87	0.	8.42E-12	8.42E-12	8.42E-12	8.42E-12	8.42E-12	8.43E-12
RB 88	0.	1.48E-01	2.52E-01	8.77E-01	1.21E+00	1.32E+00	9.83E-01
RB 89	0.	9.45E-01	9.40E+00	1.45E+01	7.15E+00	7.34E-01	1.64E-02
RB 90	0.	2.32E+01	9.21E+01	2.57E+00	4.77E-02	4.72E-06	6.38E-12
RB 90M	0.	8.44E+00	1.67E+01	1.67E+00	1.12E-01	3.42E-05	4.71E-11
RB 91	0.	2.06E+02	1.27E+02	3.57E-03	2.40E-08	7.29E-24	0.
RB 92	0.	3.49E+03	5.82E-05	0.	0.	0.	0.
RB 93	0.	2.46E+03	1.66E-03	0.	0.	0.	0.
RB 94	0.	2.28E+03	8.20E-10	0.	0.	0.	0.
RB 95	0.	3.14E+03	0.	0.	0.	0.	0.
RB 96	0.	6.88E+02	0.	0.	0.	0.	0.
RB 97	0.	1.22E+02	0.	0.	0.	0.	0.
RB 98	0.	1.91E+01	0.	0.	0.	0.	0.
RB 99	0.	1.57E+00	0.	0.	0.	0.	0.
RB100	0.	7.27E-02	0.	0.	0.	0.	0.
RB101	0.	0.	0.	0.	0.	0.	0.
SR 86	0.	0.	0.	0.	0.	0.	0.
SR 87	0.	0.	0.	0.	0.	0.	0.
SR 87M	0.	4.87E-07	4.83E-07	4.55E-07	4.25E-07	3.46E-07	2.46E-07
SR 88	0.	0.	0.	0.	0.	0.	0.
SR 89	0.	4.90E+00	4.90E+00	4.90E+00	4.90E+00	4.90E+00	4.90E+00
SR 90	0.	3.26E-02	3.26E-02	3.26E-02	3.26E-02	3.26E-02	3.26E-02
SR 91	0.	4.51E-02	7.32E-01	9.32E-01	9.13E-01	8.59E-01	7.76E-01
SR 92	0.	8.16E-01	2.96E+00	2.78E+00	2.59E+00	2.09E+00	1.47E+00
SR 93	0.	3.28E+01	5.70E+01	1.47E+01	3.15E+00	3.10E-02	1.40E-05
SR 94	0.	2.99E+02	1.31E+02	4.09E-02	4.27E-06	4.84E-18	5.96E-38
SR 95	0.	9.64E+02	4.11E+01	2.66E-09	7.04E-21	0.	0.
SR 96	0.	3.87E+03	3.64E-06	0.	0.	0.	0.
SR 97	0.	6.78E+03	0.	0.	0.	0.	0.
SR 98	0.	1.99E+03	0.	0.	0.	0.	0.
SR 99	0.	5.09E+02	0.	0.	0.	0.	0.
SR100	0.	6.30E+01	0.	0.	0.	0.	0.
SR101	0.	1.09E+01	0.	0.	0.	0.	0.
SR102	0.	7.44E-01	0.	0.	0.	0.	0.
SR103	0.	2.60E-02	0.	0.	0.	0.	0.
SR104	0.	4.08E-04	0.	0.	0.	0.	0.
Y 89	0.	0.	0.	0.	0.	0.	0.
Y 89M	0.	8.69E-05	4.35E-07	5.82E-24	3.90E-43	0.	0.
Y 90	0.	2.71E-02	2.71E-02	2.71E-02	2.71E-02	2.71E-02	2.72E-02
Y 90M	0.	5.55E-06	5.51E-06	5.22E-06	4.90E-06	4.07E-06	2.98E-06
Y 91	0.	5.36E+00	5.36E+00	5.36E+00	5.36E+00	5.36E+00	5.35E+00
Y 91M	0.	1.19E-02	1.90E-02	1.10E-01	2.02E-01	3.56E-01	4.32E-01
Y 92	0.	3.05E-03	2.24E-02	1.56E-01	2.90E-01	5.98E-01	8.72E-01
Y 93	0.	5.33E-02	1.95E-01	7.04E-01	8.31E-01	8.22E-01	7.48E-01
Y 93M	0.	0.	0.	0.	0.	0.	0.
Y 94	0.	1.73E+00	1.83E+01	1.61E+01	8.78E+00	1.42E+00	6.78E-02
Y 95	0.	8.40E+00	4.36E+01	1.72E+01	5.74E+00	2.11E-01	8.63E-04
Y 96	0.	1.00E+02	1.19E+02	1.43E+00	9.40E-03	2.69E-09	3.33E-20
Y 97	0.	1.27E+04	0.	0.	0.	0.	0.
Y 98	0.	1.19E+04	0.	0.	0.	0.	0.
Y 99	0.	5.76E+03	0.	0.	0.	0.	0.

TABLE VII (cont'd)

RIA-1-1-FRESH 18CMEV/F-DECAY-5.8SPECT

POWER= .00MW, BURNUP= 0.MWD, FLUX= 2.01E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-FRESH(525.3G-5.78PC-

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
Y100	0.	2.57E+03	0.	0.	0.	0.	0.
Y101	0.	7.29E+02	0.	0.	0.	0.	0.
Y102	0.	1.94E+02	0.	0.	0.	0.	0.
Y103	0.	1.96E+01	0.	0.	0.	0.	0.
Y104	0.	1.01E+00	0.	0.	0.	0.	0.
Y105	0.	3.23E-02	0.	0.	0.	0.	0.
Y106	0.	0.	0.	0.	0.	0.	0.
Y107	0.	1.22E-04	0.	0.	0.	0.	0.
ZR 90	0.	0.	0.	0.	0.	0.	0.
ZR 90M	0.	2.99E-06	2.20E-08	2.09E-08	1.96E-08	1.63E-08	1.19E-08
ZR 91	0.	0.	0.	0.	0.	0.	0.
ZR 92	0.	0.	0.	0.	0.	0.	0.
ZR 93	0.	1.04E-06	1.04E-06	1.04E-06	1.04E-06	1.04E-06	1.04E-06
ZR 94	0.	0.	0.	0.	0.	0.	0.
ZR 95	0.	5.24E+00	5.24E+00	5.25E+00	5.25E+00	5.25E+00	5.24E+00
ZR 96	0.	0.	0.	0.	0.	0.	0.
ZR 97	0.	1.33E+00	1.59E+00	1.57E+00	1.55E+00	1.50E+00	1.42E+00
ZR 98	0.	7.17E+02	6.08E+01	1.73E-07	3.37E-17	0.	0.
ZR 99	0.	7.61E+03	9.52E-12	0.	0.	0.	0.
ZR100	0.	3.09E+03	2.78E-02	0.	0.	0.	0.
ZR101	0.	4.01E+03	4.88E-08	0.	0.	0.	0.
ZR102	0.	2.97E+02	1.63E+01	9.05E-09	2.74E-19	0.	0.
ZR103	0.	1.03E+03	4.06E-18	0.	0.	0.	0.
ZR104	0.	9.01E+01	2.55E-08	0.	0.	0.	0.
ZR105	0.	2.20E+01	0.	0.	0.	0.	0.
ZR106	0.	6.23E+00	0.	0.	0.	0.	0.
ZR107	0.	3.65E-01	0.	0.	0.	0.	0.
ZR108	0.	8.44E-03	0.	0.	0.	0.	0.
ZR109	0.	3.73E-04	0.	0.	0.	0.	0.
NB 93	0.	0.	0.	0.	0.	0.	0.
NB 93M	0.	1.06E-09	1.06E-09	1.06E-09	1.06E-09	1.07E-09	1.08E-09
NB 94	0.	7.04E-12	7.04E-12	7.04E-12	7.04E-12	7.04E-12	7.04E-12
NB 94M	0.	5.93E-06	4.75E-06	9.37E-07	1.48E-07	5.83E-10	5.73E-14
NB 95	0.	6.18E-01	6.18E-01	6.19E-01	6.20E-01	6.24E-01	6.29E-01
NB 95M	0.	4.56E-02	4.56E-02	4.56E-02	4.57E-02	4.58E-02	4.60E-02
NB 96	0.	4.68E-04	4.68E-04	4.65E-04	4.61E-04	4.50E-04	4.31E-04
NB 97	0.	1.11E+00	1.12E+00	1.18E+00	1.23E+00	1.34E+00	1.40E+00
NB 97M	0.	1.27E+00	1.35E+00	1.36E+00	1.34E+00	1.30E+00	1.22E+00
NB 98	0.	6.57E+01	8.24E-12	0.	0.	0.	0.
NB 98M	0.	1.91E-01	8.42E+00	7.41E+00	5.91E+00	2.99E+00	9.65E-01
NB 99	0.	4.20E+02	6.42E+00	7.69E-19	2.42E-40	0.	0.
NB 99M	0.	4.95E+00	2.84E+00	4.87E-02	4.80E-04	4.58E-10	4.23E-20
NB100	0.	1.11E+03	2.10E-02	0.	0.	0.	0.
NB100M	0.	1.10E+03	2.11E-02	0.	0.	0.	0.
NB101	0.	1.34E+03	3.55E-02	0.	0.	0.	0.
NB102	0.	2.70E+03	1.82E+01	1.01E-08	3.07E-19	0.	0.
NB103	0.	5.54E+02	3.40E+00	4.23E-17	2.60E-36	0.	0.
NB104	0.	1.97E+03	3.46E-08	0.	0.	0.	0.
NB105	0.	3.56E+02	3.13E-18	0.	0.	0.	0.
NB106	0.	2.23E+02	0.	0.	0.	0.	0.
NB107	0.	2.86E+01	0.	0.	0.	0.	0.
NB108	0.	2.34E+00	0.	0.	0.	0.	0.

TABLE VII (cont'd)

RIA-1-1-FRESH 18CMEV/F-DECAY-5.8SPECT

POWER= .00MW, BURNUP= 0.MWD, FLUX= 2.01E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-FRESH(525.3G-5.78PC-

	CHARGE	DISCHARGE	12C.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
NB109	0.	1.30E-01	0.	0.	0.	0.	0.
NB110	0.	5.56E-03	0.	0.	0.	0.	0.
NB111	0.	3.44E-04	0.	0.	0.	0.	0.
NB112	0.	0.	0.	0.	0.	0.	0.
MC 95	0.	0.	0.	0.	0.	0.	0.
MC 96	0.	0.	0.	0.	0.	0.	0.
MC 97	0.	0.	0.	0.	0.	0.	0.
MO 98	0.	0.	0.	0.	0.	0.	0.
MO 99	0.	2.66E+01	2.68E+01	2.67E+01	2.66E+01	2.64E+01	2.60E+01
MO100	0.	0.	0.	0.	0.	0.	0.
MO101	0.	1.62E+00	2.60E+01	1.29E+01	5.86E+00	5.46E-01	1.04E-02
MO102	0.	5.98E+00	2.71E+01	1.12E+01	3.94E+00	1.74E-01	9.54E-04
MO103	0.	7.98E+01	7.94E+01	3.10E-03	2.98E-08	2.65E-23	0.
MO104	0.	6.65E+01	3.83E+01	6.66E-02	4.87E-05	1.91E-14	4.00E-30
MO105	0.	7.10E+01	1.79E+01	2.22E-04	5.92E-10	1.12E-26	0.
MO106	0.	1.65E+02	1.74E-02	0.	0.	0.	0.
MO107	0.	7.73E+01	1.80E-04	0.	0.	0.	0.
MO108	0.	5.52E+01	0.	0.	0.	0.	0.
MO109	0.	7.34E+00	0.	0.	0.	0.	0.
MO110	0.	8.72E-01	7.05E-20	0.	0.	0.	0.
MO111	0.	1.45E-01	0.	0.	0.	0.	0.
MO112	0.	9.51E-03	0.	0.	0.	0.	0.
MO113	0.	1.30E-03	0.	0.	0.	0.	0.
MO114	0.	6.31E-05	0.	0.	0.	0.	0.
MO115	0.	2.95E-06	0.	0.	0.	0.	0.
TC 99	0.	3.46E-06	3.46E-06	3.46E-06	3.47E-06	3.48E-06	3.49E-06
TC 99M	0.	2.53E+01	2.53E+01	2.52E+01	2.51E+01	2.49E+01	2.46E+01
TC100	0.	3.15E-02	1.74E-04	4.83E-21	7.40E-40	0.	0.
TC101	0.	2.37E-03	2.53E+00	1.04E+01	9.33E+00	2.10E+00	7.62E-02
TC102	0.	1.62E+00	2.72E+01	1.13E+01	3.97E+00	1.75E-01	9.62E-04
TC102M	0.	2.36E-02	1.71E-02	1.61E-03	1.09E-04	3.46E-08	5.07E-14
TC103	0.	2.78E+00	9.72E+01	1.66E-02	1.77E-07	1.59E-22	0.
TC104	0.	2.83E-01	4.75E+00	4.82E+00	2.54E+00	3.70E-01	1.50E-02
TC105	0.	1.17E+00	7.62E+00	2.78E+00	6.55E-01	8.60E-03	6.29E-06
TC106	0.	9.35E+00	7.05E+00	4.89E-07	3.57E-15	0.	0.
TC107	0.	9.88E+00	1.85E+00	1.36E-09	5.65E-20	0.	0.
TC108	0.	3.88E+01	6.93E-06	0.	0.	0.	0.
TC109	0.	1.48E+00	3.10E-01	1.56E-06	1.49E-12	1.29E-30	0.
TC110	0.	1.84E+01	1.26E-19	0.	0.	0.	0.
TC111	0.	4.32E+00	0.	0.	0.	0.	0.
TC112	0.	1.18E+00	0.	0.	0.	0.	0.
TC113	0.	3.13E-01	0.	0.	0.	0.	0.
TC114	0.	4.07E-02	0.	0.	0.	0.	0.
TC115	0.	4.38E-03	0.	0.	0.	0.	0.
TC116	0.	2.71E-04	0.	0.	0.	0.	0.
TC117	0.	3.20E-05	0.	0.	0.	0.	0.
TC118	0.	0.	0.	0.	0.	0.	0.
RU 99	0.	0.	0.	0.	0.	0.	0.
RU100	0.	0.	0.	0.	0.	0.	0.
RU101	0.	0.	0.	0.	0.	0.	0.
RU102	0.	0.	0.	0.	0.	0.	0.
RU103	0.	4.06E+00	4.06E+00	4.06E+00	4.06E+00	4.06E+00	4.05E+00

TABLE VII (cont'd)

RIA-1-1-FRESH 18CMEV/F-DECAY-5.8SPECT

POWER= .OCMW, BURNUP= 0.MWD, FLUX= 2.01E+12N/CM**2-SEC

NUCLIDE RADICACTIVITY, CURIES
BASIS = RIA-1-1-FRESH(525.3G-5.78PC-

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
RU104	0.	0.	0.	0.	0.	0.	0.
RU105	0.	8.57E-04	2.89E-02	2.37E-01	2.89E-01	2.71E-01	2.18E-01
RU106	0.	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.10E-02	6.10E-02
RU107	0.	9.74E-02	2.88E+00	2.77E-01	1.77E-02	4.62E-06	4.91E-12
RU108	0.	2.78E-01	9.97E-01	1.04E-01	7.99E-03	3.61E-06	9.62E-12
RU109	0.	1.91E+00	7.05E-01	5.20E-06	4.97E-12	4.31E-30	0.
RU110	0.	5.29E+00	3.55E-02	9.84E-19	1.51E-37	0.	0.
RU111	0.	4.34E+00	2.16E-02	1.43E-19	4.29E-39	0.	0.
RU112	0.	2.02E+01	0.	0.	0.	0.	0.
RU113	0.	5.07E+00	4.47E-13	0.	0.	0.	0.
RU114	0.	1.13E+00	8.04E-08	0.	0.	0.	0.
RU115	0.	9.23E-01	0.	0.	0.	0.	0.
RU116	0.	1.23E-01	0.	0.	0.	0.	0.
RU117	0.	1.10E-01	0.	0.	0.	0.	0.
RU118	0.	3.56E-02	0.	0.	0.	0.	0.
RU119	0.	0.	0.	0.	0.	0.	0.
RU120	0.	1.47E-05	0.	0.	0.	0.	0.
RH103	0.	0.	0.	0.	0.	0.	0.
RH103M	0.	4.06E+00	4.06E+00	4.06E+00	4.06E+00	4.06E+00	4.06E+00
RH104	0.	4.74E-03	6.97E-04	5.13E-06	3.81E-07	1.25E-10	2.14E-16
RH104M	0.	6.14E-05	4.47E-05	4.32E-06	3.03E-07	1.05E-10	1.80E-16
RH105	0.	2.52E+00	2.52E+00	2.51E+00	2.49E+00	2.46E+00	2.40E+00
RH105M	0.	1.12E-04	4.04E-03	6.11E-02	7.46E-02	7.01E-02	5.65E-02
RH106	0.	1.93E-01	6.92E-02	6.10E-02	6.10E-02	6.10E-02	6.10E-02
RH106M	0.	2.31E-04	2.29E-04	2.12E-04	1.94E-04	1.49E-04	9.57E-05
RH107	0.	8.42E-05	1.43E-01	4.91E-01	3.23E-01	6.63E-02	4.63E-03
RH108	0.	2.19E-02	1.05E+00	2.11E-01	8.53E-03	3.85E-06	1.03E-11
RH108M	0.	6.07E-04	4.80E-04	3.57E-05	1.21E-05	3.40E-08	1.90E-12
RH109	0.	2.14E-02	6.27E-01	3.40E-03	1.56E-06	1.44E-16	2.72E-33
RH109M	0.	3.78E-02	4.68E-01	3.22E-05	6.51E-11	1.46E-28	0.
RH110	0.	2.36E-01	4.18E-01	3.39E-10	1.41E-20	0.	0.
RH110M	0.	9.17E-01	8.34E-13	0.	0.	0.	0.
RH111	0.	3.81E-01	5.06E-01	3.20E-05	5.33E-10	2.47E-24	0.
RH112	0.	8.43E+00	2.49E-07	0.	0.	0.	0.
RH113	0.	2.11E+01	6.63E-13	0.	0.	0.	0.
RH114	0.	1.14E+01	1.21E-07	0.	0.	0.	0.
RH115	0.	2.52E+00	2.66E-06	0.	0.	0.	0.
RH116	0.	4.63E+00	0.	0.	0.	0.	0.
RH117	0.	9.77E+00	0.	0.	0.	0.	0.
RH118	0.	6.46E-01	0.	0.	0.	0.	0.
RH119	0.	9.19E-02	0.	0.	0.	0.	0.
RH120	0.	1.42E-02	0.	0.	0.	0.	0.
RH121	0.	1.93E-03	0.	0.	0.	0.	0.
RH122	0.	2.47E-04	0.	0.	0.	0.	0.
RH123	0.	2.74E-05	0.	0.	0.	0.	0.
PD104	0.	0.	0.	0.	0.	0.	0.
PD105	0.	0.	0.	0.	0.	0.	0.
PD106	0.	0.	0.	0.	0.	0.	0.
PD107	0.	4.07E-09	4.07E-09	4.07E-09	4.08E-09	4.08E-09	4.08E-09
PD107M	0.	1.45E-06	2.92E-08	1.07E-20	7.85E-35	0.	0.
PD108	0.	0.	0.	0.	0.	0.	0.
PD109	0.	1.60E-03	1.96E-03	7.23E-03	7.59E-03	7.31E-03	6.80E-03

TABLE VII (cont'd)

RIA-1-1-FRESH 180MEV/F-DECAY-5.8SPECT

POWER= .COMW, BURNUP= 0.MWD, FLUX= 2.01E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-FRESH(525.3G-5.78PC-

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
PD109M	0.	4.35E-05	5.21E-02	8.54E-02	7.34E-03	4.54E-06	2.03E-11
PD110	0.	0.	0.	0.	0.	0.	0.
PD111	0.	5.62E-04	4.80E-02	4.64E-02	2.74E-02	5.70E-03	4.33E-04
PD111M	0.	2.44E-05	3.74E-05	4.26E-05	4.12E-05	3.71E-05	3.11E-05
PD112	0.	5.43E-03	6.17E-03	6.12E-03	6.06E-03	5.89E-03	5.61E-03
PD113	0.	3.09E-01	2.72E-01	3.10E-04	1.40E-07	1.30E-17	2.45E-34
PD114	0.	2.08E-01	2.17E-01	3.13E-03	2.54E-05	1.36E-11	4.80E-22
PD115	0.	8.21E-01	1.48E-01	1.58E-08	1.89E-16	0.	0.
PD116	0.	2.79E+00	8.15E-03	9.75E-22	3.07E-43	0.	0.
PD117	0.	7.11E+00	5.84E-07	0.	0.	0.	0.
PD118	0.	4.71E+00	1.06E-11	0.	0.	0.	0.
PD119	0.	4.17E+00	3.34E-21	0.	0.	0.	0.
PD120	0.	7.24E-01	2.54E-09	0.	0.	0.	0.
PD121	0.	6.95E-01	0.	0.	0.	0.	0.
PD122	0.	1.39E-01	0.	0.	0.	0.	0.
PD123	0.	4.86E-02	0.	0.	0.	0.	0.
PD124	0.	9.72E-03	0.	0.	0.	0.	0.
PD125	0.	0.	0.	0.	0.	0.	0.
PD126	0.	1.89E-04	0.	0.	0.	0.	0.
AG107	0.	0.	0.	0.	0.	0.	0.
AG108	0.	6.71E-11	3.78E-11	5.60E-13	9.97E-15	8.92E-18	8.91E-18
AG108M	0.	1.16E-16	1.16E-16	1.16E-16	1.16E-16	1.16E-16	1.16E-16
AG109	0.	0.	0.	0.	0.	0.	0.
AG109M	0.	1.60E-03	1.77E-03	7.23E-03	7.59E-03	7.31E-03	6.81E-03
AG110	0.	1.12E-07	1.12E-07	1.12E-07	1.12E-07	1.11E-07	1.11E-07
AG110M	0.	2.74E-05	9.33E-07	1.59E-17	9.20E-30	0.	0.
AG111	0.	8.66E-02	8.68E-02	8.67E-02	8.67E-02	8.64E-02	8.60E-02
AG111M	0.	1.51E-05	2.24E-02	4.84E-02	2.86E-02	5.95E-03	4.59E-04
AG112	0.	6.29E-03	6.29E-03	6.28E-03	6.27E-03	6.22E-03	6.09E-03
AG113	0.	1.13E-05	1.76E-03	2.83E-03	2.73E-03	2.45E-03	2.04E-03
AG113M	0.	1.10E-03	2.95E-02	1.19E-04	5.27E-08	4.86E-18	9.18E-35
AG114	0.	1.33E-01	2.24E-01	3.24E-03	2.63E-05	1.41E-11	4.96E-22
AG115	0.	1.80E-03	2.63E-02	1.83E-02	1.06E-02	2.03E-03	1.29E-04
AG115M	0.	7.79E-02	6.79E-02	7.71E-09	9.22E-17	0.	0.
AG116	0.	2.84E-02	1.07E-01	2.41E-03	3.24E-05	7.84E-11	3.42E-20
AG116M	0.	4.88E-01	1.08E-02	1.29E-21	4.05E-43	0.	0.
AG117	0.	4.89E-02	1.24E-01	2.99E-05	2.31E-09	1.06E-21	2.91E-42
AG117M	0.	6.16E-01	7.65E-06	0.	0.	0.	0.
AG118	0.	2.29E+01	4.86E-09	0.	0.	0.	0.
AG118M	0.	2.55E+00	1.00E-08	0.	0.	0.	0.
AG119	0.	4.90E+00	6.27E-06	0.	0.	0.	0.
AG120	0.	1.18E+01	3.65E-09	0.	0.	0.	0.
AG121	0.	4.49E+00	4.25E-12	0.	0.	0.	0.
AG122	0.	6.74E+00	0.	0.	0.	0.	0.
AG123	0.	2.76E+00	0.	0.	0.	0.	0.
AG124	0.	1.65E+00	0.	0.	0.	0.	0.
AG125	0.	3.57E-01	0.	0.	0.	0.	0.
AG126	0.	1.62E-01	0.	0.	0.	0.	0.
AG127	0.	0.	0.	0.	0.	0.	0.
AG128	0.	7.77E-03	0.	0.	0.	0.	0.
CD108	0.	0.	0.	0.	0.	0.	0.
CD109	0.	1.12E-18	1.12E-18	1.12E-18	1.12E-18	1.12E-18	1.12E-18

TABLE VII (cont'd)

RIA-1-1-FRESH 180MEV/F-DECAY-5.8SPECT

POWER= .00MW, BURNUP= 0.MWD, FLUX= 2.01E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-FRESH(525.3G-5.78PC-

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
CD110	0.	0.	0.	0.	0.	0.	0.
CD111	0.	0.	0.	0.	0.	0.	0.
CD111M	0.	2.50E-11	2.43E-11	1.97E-11	1.56E-11	7.64E-12	2.33E-12
CD112	0.	0.	0.	0.	0.	0.	0.
CD113	0.	0.	0.	0.	0.	0.	0.
CD113M	0.	2.94E-06	2.94E-06	2.94E-06	2.94E-06	2.94E-06	2.94E-06
CD114	0.	0.	0.	0.	0.	0.	0.
CD115	0.	3.38E-02	3.39E-02	3.38E-02	3.38E-02	3.34E-02	3.29E-02
CD115M	0.	1.63E-03	1.64E-03	1.64E-03	1.64E-03	1.63E-03	1.63E-03
CD116	0.	0.	0.	0.	0.	0.	0.
CD117	0.	2.15E-05	3.05E-03	3.60E-03	3.34E-03	2.68E-03	1.85E-03
CD117M	0.	1.52E-05	1.40E-03	1.47E-03	1.39E-03	1.17E-03	8.84E-04
CD118	0.	1.14E-02	2.06E-02	1.68E-02	1.34E-02	6.72E-03	2.13E-03
CD119	0.	1.63E-02	4.24E-02	1.44E-02	4.21E-03	1.05E-04	2.26E-07
CD119M	0.	4.79E-02	9.49E-02	3.96E-03	1.07E-04	2.12E-09	3.07E-17
CD120	0.	7.45E-01	2.18E-01	1.33E-06	1.58E-12	2.64E-30	0.
CD121	0.	3.22E+00	6.99E-03	1.41E-23	0.	0.	0.
CD122	0.	8.93E+00	2.46E-06	0.	0.	0.	0.
CD123	0.	5.41E+00	2.88E-04	0.	0.	0.	0.
CD124	0.	3.03E+00	2.41E-02	8.98E-18	2.64E-35	0.	0.
CD125	0.	1.09E+01	0.	0.	0.	0.	0.
CD126	0.	7.35E+00	1.88E-09	0.	0.	0.	0.
CD127	0.	1.09E+01	0.	0.	0.	0.	0.
CD128	0.	4.12E+00	0.	0.	0.	0.	0.
CD129	0.	1.24E+00	0.	0.	0.	0.	0.
CD130	0.	2.88E+00	0.	0.	0.	0.	0.
CD131	0.	3.39E-01	0.	0.	0.	0.	0.
CD132	0.	3.13E-02	0.	0.	0.	0.	0.
IN113	0.	0.	0.	0.	0.	0.	0.
IN113M	0.	2.54E-15	2.54E-15	2.28E-15	2.02E-15	1.31E-15	7.72E-16
IN114	0.	1.15E-09	3.71E-10	1.39E-11	1.38E-11	1.38E-11	1.38E-11
IN114M	0.	1.43E-11	1.43E-11	1.43E-11	1.43E-11	1.43E-11	1.43E-11
IN115	0.	2.31E-18	2.31E-18	2.31E-18	2.31E-18	2.32E-18	2.33E-18
IN115M	0.	3.69E-02	3.69E-02	3.68E-02	3.67E-02	3.63E-02	3.57E-02
IN116	0.	1.42E-04	4.05E-07	8.95E-26	5.65E-47	0.	0.
IN116M	0.	2.38E-06	2.32E-06	1.92E-06	1.55E-06	8.19E-07	2.82E-07
IN117	0.	3.37E-09	2.76E-05	2.70E-04	5.09E-04	1.02E-03	1.37E-03
IN117M	0.	2.27E-09	3.30E-05	3.75E-04	7.03E-04	1.38E-03	1.81E-03
IN118	0.	7.98E-05	5.71E-03	1.68E-02	1.46E-02	7.37E-03	2.34E-03
IN118M	0.	2.34E-03	1.40E-10	0.	0.	0.	0.
IN119	0.	9.87E-04	2.54E-02	6.76E-03	1.02E-03	1.52E-04	6.55E-06
IN119M	0.	1.47E-04	7.91E-03	2.05E-02	1.47E-02	2.70E-03	1.13E-04
IN120	0.	1.77E-02	1.83E-01	7.42E-06	1.41E-11	3.42E-29	0.
IN120M	0.	2.47E-01	1.16E-01	7.06E-07	8.38E-13	1.40E-30	0.
IN121	0.	1.36E-01	1.67E-01	5.93E-11	1.05E-21	0.	0.
IN121M	0.	2.16E-02	5.20E-02	2.39E-03	7.22E-05	1.98E-09	4.96E-17
IN122	0.	9.66E-01	5.23E-03	0.	0.	0.	0.
IN122M	0.	2.06E+00	0.	0.	0.	0.	0.
IN123	0.	1.94E+00	7.63E-04	0.	0.	0.	0.
IN123M	0.	2.14E-01	8.70E-02	2.63E-07	1.41E-13	2.16E-32	0.
IN124	0.	1.24E+01	2.96E-02	1.10E-17	3.24E-35	0.	0.
IN125	0.	1.02E+01	8.70E-15	0.	0.	0.	0.

TABLE VII (cont'd)

RIA-1-1-FRESH 18CMEV/F-DECAY-5.8SPECT

POWER= .00MW, BURNUP= 0.MWD, FLUX= 2.01E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-FRESH(525.3G-5.78PC-

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
IN125M	0.	2.16E+00	2.61E-03	0.	0.	0.	0.
IN126	0.	7.29E+01	3.17E-09	0.	0.	0.	0.
IN127	0.	3.90E+01	3.61E-17	0.	0.	0.	0.
IN127M	0.	2.46E+01	3.08E-09	0.	0.	0.	0.
IN128	0.	6.25E+01	1.12E-08	0.	0.	0.	0.
IN129	0.	1.14E+02	0.	0.	0.	0.	0.
IN130	0.	2.36E+02	0.	0.	0.	0.	0.
IN131	0.	8.35E+01	0.	0.	0.	0.	0.
IN132	0.	2.54E+01	0.	0.	0.	0.	0.
IN133	0.	1.64E+00	0.	0.	0.	0.	0.
IN134	0.	4.01E-02	0.	0.	0.	0.	0.
SN114	0.	0.	0.	0.	0.	0.	0.
SN115	0.	0.	0.	0.	0.	0.	0.
SN116	0.	0.	0.	0.	0.	0.	0.
SN117	0.	0.	0.	0.	0.	0.	0.
SN117M	0.	7.47E-14	7.47E-14	7.46E-14	7.46E-14	7.45E-14	7.42E-14
SN118	0.	0.	0.	0.	0.	0.	0.
SN119	0.	0.	0.	0.	0.	0.	0.
SN119M	0.	3.74E-05	3.74E-05	3.74E-05	3.74E-05	3.74E-05	3.74E-05
SN120	0.	0.	0.	0.	0.	0.	0.
SN121	0.	1.43E-02	1.48E-02	1.49E-02	1.48E-02	1.45E-02	1.40E-02
SN121M	0.	1.84E-08	1.84E-08	1.84E-08	1.84E-08	1.84E-08	1.84E-08
SN122	0.	0.	0.	0.	0.	0.	0.
SN123	0.	3.81E-03	3.82E-03	3.82E-03	3.82E-03	3.82E-03	3.82E-03
SN123M	0.	6.96E-04	1.44E-02	1.19E-02	8.96E-03	3.74E-03	8.83E-04
SN124	0.	0.	0.	0.	0.	0.	0.
SN125	0.	5.07E-02	5.07E-02	5.07E-02	5.06E-02	5.05E-02	5.03E-02
SN125M	0.	4.53E-02	1.22E-01	4.20E-02	1.25E-02	3.27E-04	7.58E-07
SN126	0.	8.81E-08	8.82E-08	8.82E-08	8.82E-08	8.82E-08	8.82E-08
SN127	0.	3.07E-02	5.30E-02	4.89E-02	4.47E-02	3.40E-02	2.16E-02
SN127M	0.	8.21E-01	5.87E-01	5.02E-02	3.07E-03	7.00E-07	5.97E-13
SN128	0.	3.94E-01	4.50E-01	3.79E-01	3.12E-01	1.73E-01	6.51E-02
SN129	0.	2.13E+00	1.85E+00	4.77E-01	1.02E-01	1.01E-03	4.55E-07
SN129M	0.	1.11E+01	6.56E+00	1.12E-01	1.11E-03	1.06E-09	9.75E-20
SN130	0.	1.91E+01	1.35E+01	8.67E-01	3.82E-02	3.27E-06	5.42E-13
SN131	0.	7.22E+01	1.94E+01	1.21E-03	2.02E-08	9.33E-23	0.
SN132	0.	7.12E+01	8.91E+00	2.12E-06	6.33E-14	0.	0.
SN133	0.	3.75E+02	0.	0.	0.	0.	0.
SN134	0.	3.33E+01	0.	0.	0.	0.	0.
SN135	0.	5.06E+00	0.	0.	0.	0.	0.
SN136	0.	2.59E-01	0.	0.	0.	0.	0.
SB121	0.	0.	0.	0.	0.	0.	0.
SB122	0.	2.43E-07	2.43E-07	2.43E-07	2.42E-07	2.40E-07	2.37E-07
SB122M	0.	6.88E-07	4.94E-07	4.39E-08	2.81E-09	7.32E-13	7.79E-19
SB123	0.	0.	0.	0.	0.	0.	0.
SB124	0.	5.42E-06	5.42E-06	5.42E-06	5.42E-06	5.42E-06	5.41E-06
SB124M	0.	1.49E-04	6.26E-05	1.09E-07	7.97E-11	3.12E-20	6.54E-36
SB125	0.	1.20E-03	1.20E-03	1.20E-03	1.20E-03	1.21E-03	1.21E-03
SB126	0.	2.86E-03	2.86E-03	2.86E-03	2.86E-03	2.85E-03	2.84E-03
SB126M	0.	1.43E-03	1.33E-03	7.80E-04	4.55E-04	6.86E-05	3.37E-06
SB127	0.	6.39E-01	6.39E-01	6.38E-01	6.37E-01	6.33E-01	6.27E-01
SB128	0.	1.68E-03	1.67E-03	1.64E-03	1.61E-03	1.51E-03	1.36E-03

TABLE VII (cont'd)

RIA-1-1-FRESH 180MEV/F-DECAY-5.8SPECT

POWER= .00MW, BURNUP= 0.MWD, FLUX= 2.01E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-FRESH(525.3G-5.78PC-

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
SB128M	0.	5.21E-02	1.02E-01	2.93E-01	3.23E-01	2.08E-01	7.90E-02
SB129	0.	2.61E-02	8.34E-02	1.79E-01	1.83E-01	1.63E-01	1.30E-01
SB130	0.	2.55E+00	2.38E+00	7.68E-01	1.48E-01	8.00E-04	1.27E-07
SB130M	0.	6.71E-01	1.19E+00	1.84E+00	1.41E+00	5.54E-01	1.16E-01
SB131	0.	5.66E+00	7.67E+00	5.53E+00	3.34E+00	7.41E-01	6.02E-02
SB132	0.	4.14E+01	3.44E+01	3.04E-01	1.24E-03	8.44E-11	9.57E-23
SB132M	0.	2.08E+01	1.49E+01	1.25E+00	7.44E-02	1.59E-05	1.21E-11
SB133	0.	7.27E+01	4.29E+01	6.21E-01	5.04E-03	2.70E-09	9.52E-20
SB134	0.	6.85E+02	0.	0.	0.	0.	0.
SB134M	0.	1.00E+02	4.23E-02	0.	0.	0.	0.
SB135	0.	3.99E+02	2.25E-19	0.	0.	0.	0.
SB136	0.	1.11E+02	0.	0.	0.	0.	0.
SB137	0.	8.54E+00	0.	0.	0.	0.	0.
SB138	0.	6.66E-01	0.	0.	0.	0.	0.
SB139	0.	3.82E-02	0.	0.	0.	0.	0.
TE122	0.	0.	0.	0.	0.	0.	0.
TE123	0.	6.49E-25	6.49E-25	6.49E-25	6.49E-25	6.49E-25	6.49E-25
TE123M	0.	2.29E-11	2.29E-11	2.29E-11	2.29E-11	2.29E-11	2.29E-11
TE124	0.	0.	0.	0.	0.	0.	0.
TE125	0.	0.	0.	0.	0.	0.	0.
TE125M	0.	1.77E-05	1.77E-05	1.78E-05	1.78E-05	1.79E-05	1.81E-05
TE126	0.	0.	0.	0.	0.	0.	0.
TE127	0.	6.05E-01	6.05E-01	6.04E-01	6.03E-01	5.99E-01	5.93E-01
TE127M	0.	7.18E-03	7.18E-03	7.19E-03	7.19E-03	7.21E-03	7.25E-03
TE128	0.	0.	0.	0.	0.	0.	0.
TE129	0.	1.71E-01	1.71E-01	1.85E-01	2.02E-01	2.35E-01	2.52E-01
TE129M	0.	2.47E-01	2.47E-01	2.47E-01	2.47E-01	2.47E-01	2.46E-01
TE130	0.	0.	0.	0.	0.	0.	0.
TE131	0.	4.59E-01	7.88E-01	2.69E+00	3.20E+00	1.89E+00	4.17E-01
TE131M	0.	5.49E-01	5.49E-01	5.49E-01	5.47E-01	5.39E-01	5.22E-01
TE132	0.	1.98E+01	1.98E+01	1.98E+01	1.98E+01	1.96E+01	1.94E+01
TE133	0.	8.07E+00	1.32E+01	1.04E+01	4.45E+00	5.13E-01	9.62E-02
TE133M	0.	4.42E+00	4.34E+00	3.65E+00	2.96E+00	1.58E+00	5.59E-01
TE134	0.	1.25E+01	1.27E+01	1.00E+01	7.60E+00	3.33E+00	8.41E-01
TE135	0.	8.25E+02	8.53E+00	1.64E-14	3.09E-31	0.	0.
TE136	0.	4.30E+02	8.21E+00	1.99E-12	9.23E-27	0.	0.
TE137	0.	4.86E+02	2.33E-08	0.	0.	0.	0.
TE138	0.	1.82E+02	0.	0.	0.	0.	0.
TE139	0.	4.92E+01	0.	0.	0.	0.	0.
TE140	0.	4.30E+00	0.	0.	0.	0.	0.
TE141	0.	1.94E-01	0.	0.	0.	0.	0.
TE142	0.	6.81E-03	0.	0.	0.	0.	0.
I127	0.	0.	0.	0.	0.	0.	0.
I128	0.	4.55E-05	4.30E-05	2.08E-05	1.80E-05	4.51E-06	4.48E-07
I129	0.	5.05E-09	5.05E-09	5.05E-09	5.05E-09	5.05E-09	5.05E-09
I130	0.	2.56E-05	2.66E-05	3.02E-05	3.11E-05	3.02E-05	2.79E-05
I130M	0.	6.77E-04	5.80E-04	1.85E-04	5.05E-05	1.03E-06	1.56E-09
I131	0.	1.19E+01	1.19E+01	1.19E+01	1.19E+01	1.19E+01	1.19E+01
I132	0.	2.04E+01	2.04E+01	2.03E+01	2.03E+01	2.02E+01	1.99E+01
I133	0.	3.32E+00	3.34E+00	3.45E+00	3.51E+00	3.52E+00	3.41E+00
I133M	0.	6.48E+01	6.28E-03	0.	0.	0.	0.
I134	0.	6.68E-01	1.19E+00	3.33E+00	4.41E+00	4.67E+00	2.62E+00

TABLE VII (cont'd)

RIA-1-1-FRESH 18CMEV/F-DECAY-5.8SPECT

POWER= .00MW, BURNUP= 0.MWD, FLUX= 2.01E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-FRESH(525.3G-5.78PC-

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
I134M	0.	9.59E+00	6.53E+00	3.88E-01	1.57E-02	1.03E-06	1.11E-13
I135	0.	6.56E-01	1.30E+00	1.28E+00	1.24E+00	1.14E+00	9.81E-01
I136	0.	6.96E+01	7.64E+01	5.09E-02	1.20E-05	1.58E-16	1.16E-34
I136M	0.	2.0CE+02	3.53E+01	1.07E-04	5.72E-11	8.76E-30	0.
I137	0.	5.66E+02	2.20E+01	3.75E-10	2.17E-22	0.	0.
I138	0.	1.C8E+03	3.17E-03	C.	0.	C.	C.
I139	0.	1.1EE+03	1.06E-12	C.	0.	0.	0.
I140	0.	6.50E+02	0.	C.	0.	0.	0.
I141	0.	1.17E+02	0.	0.	0.	0.	0.
I142	0.	8.9CE+00	0.	0.	0.	0.	0.
I143	0.	3.96E-01	0.	C.	0.	C.	C.
I144	0.	1.95E-02	0.	0.	0.	0.	0.
I145	0.	C.	0.	C.	0.	0.	0.
XE128	0.	C.	0.	C.	0.	0.	0.
XE129	0.	0.	0.	0.	0.	0.	0.
XE129M	0.	2.14E-08	2.14E-08	2.14E-08	2.14E-08	2.13E-08	2.12E-08
XE130	C.	0.	0.	C.	0.	0.	0.
XE131	0.	C.	0.	C.	0.	C.	0.
XE131M	0.	3.11E-02	3.11E-02	3.11E-02	3.12E-02	3.13E-02	3.15E-02
XE132	0.	0.	0.	0.	0.	C.	0.
XE133	0.	3.63E+01	3.83E+01	3.82E+01	3.82E+01	3.81E+01	3.78E+01
XE133M	C.	5.59E+00	5.59E+00	5.57E+00	5.55E+00	5.50E+00	5.41E+00
XE134	0.	C.	0.	C.	0.	C.	0.
XE134M	0.	8.27E+01	0.	C.	0.	C.	0.
XE135	0.	5.99E-02	6.44E-02	9.50E-02	1.24E-01	1.93E-01	2.80E-01
XE135M	0.	8.55E-01	7.96E-01	5.02E-01	3.34E-01	1.89E-01	1.5CE-01
XE136	0.	C.	0.	C.	0.	0.	0.
XE137	0.	6.29E+01	9.51E+01	6.92E+00	3.42E-01	4.11E-05	1.21E-11
XE138	0.	2.73E+01	3.26E+01	1.59E+01	7.07E+00	6.16E-01	1.05E-02
XE139	0.	5.46E+02	7.93E+01	2.20E-05	7.78E-13	C.	0.
XE140	0.	1.24E+03	2.82E+00	9.38E-20	0.	C.	0.
XE141	0.	2.35E+03	2.41E-18	C.	0.	0.	0.
XE142	0.	9.1EE+02	0.	C.	0.	C.	0.
XE143	0.	1.85E+02	0.	0.	0.	0.	0.
XE144	0.	1.75E+01	0.	0.	0.	C.	0.
XE145	0.	4.87E-01	0.	C.	0.	0.	0.
XE146	0.	5.07E-02	0.	C.	0.	C.	0.
XE147	0.	3.26E-03	0.	C.	0.	C.	0.
CS133	0.	C.	0.	0.	0.	0.	0.
CS134	0.	2.73E-06	2.73E-06	2.73E-06	2.73E-06	2.73E-06	2.73E-06
CS134M	C.	1.66E-05	1.64E-05	1.52E-05	1.45E-05	1.19E-05	8.53E-06
CS135	0.	3.55E-07	3.55E-07	3.55E-07	3.55E-07	3.55E-07	3.55E-07
CS135M	0.	9.28E-04	9.04E-04	7.46E-04	6.00E-04	3.12E-04	1.05E-04
CS136	0.	1.66E-02	1.66E-02	1.66E-02	1.66E-02	1.66E-02	1.65E-02
CS137	0.	3.23E-02	3.23E-02	3.24E-02	3.24E-02	3.24E-02	3.24E-02
CS138	0.	7.97E-01	2.21E+00	7.80E+00	8.66E+00	4.37E+00	7.99E-01
CS138M	0.	7.C3E+00	4.36E+00	1.31E-01	2.44E-03	1.57E-08	3.52E-17
CS139	0.	1.17E+01	4.57E+01	1.74E+01	5.02E+00	1.21E-01	2.42E-04
CS140	0.	1.78E+02	1.42E+02	1.00E-02	1.92E-07	1.34E-21	0.
CS141	0.	6.82E+02	3.09E+01	7.83E-10	7.12E-22	C.	C.
CS142	0.	5.16E+03	4.22E-18	C.	0.	0.	0.
CS143	0.	3.05E+03	1.74E-18	C.	0.	C.	0.

TABLE VII (cont'd)

RIA-1-1-FRESH 180MEV/F-DECAY-5.8SPECT

POWER= .0MW, BURNUP= 0.MWD, FLUX= 2.01E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-FRESH(525.3G-5.78PC-

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
CS144	0.	7.65E+02	0.	0.	0.	0.	0.
CS145	0.	2.27E+02	0.	0.	0.	0.	0.
CS146	0.	2.81E+01	0.	0.	0.	0.	0.
CS147	0.	2.5CE+00	0.	0.	0.	0.	0.
CS148	0.	1.07E-01	0.	0.	0.	0.	0.
CS149	0.	0.	0.	0.	0.	0.	0.
CS150	0.	6.07E-05	0.	0.	0.	0.	0.
BA134	0.	0.	0.	0.	0.	0.	0.
BA135	0.	0.	0.	0.	0.	0.	0.
BA135M	0.	3.23E-07	3.23E-07	3.21E-07	3.19E-07	3.12E-07	3.02E-07
BA136	0.	0.	0.	0.	0.	0.	0.
BA136M	0.	2.66E-03	2.66E-03	2.66E-03	2.66E-03	2.65E-03	2.64E-03
BA137	0.	0.	0.	0.	0.	0.	0.
BA137M	0.	3.85E-02	3.52E-02	3.07E-02	3.06E-02	3.06E-02	3.06E-02
BA138	0.	0.	0.	0.	0.	0.	0.
BA139	0.	6.79E-02	6.51E-01	4.16E+00	4.89E+00	3.63E+00	1.82E+00
BA140	0.	2.00E+01	2.00E+01	2.00E+01	2.00E+01	2.00E+01	1.99E+01
BA141	0.	6.86E+00	2.42E+01	1.43E+01	7.61E+00	1.15E+00	4.88E-02
BA142	0.	2.9CE+01	3.90E+01	1.51E+01	5.12E+00	2.01E-01	9.09E-04
BA143	0.	1.45E+03	4.18E+00	1.39E-19	0.	0.	0.
BA144	0.	1.72E+03	9.35E-01	0.	0.	0.	0.
BA145	0.	1.39E+03	2.10E-03	0.	0.	0.	0.
BA146	0.	1.11E+03	4.22E-14	0.	0.	0.	0.
BA147	0.	2.17E+02	1.31E-14	0.	0.	0.	0.
BA148	0.	1.21E+01	9.11E-06	0.	0.	0.	0.
BA149	0.	3.11E+00	0.	0.	0.	0.	0.
BA150	0.	1.15E-01	9.07E-22	0.	0.	0.	0.
BA151	0.	0.	0.	0.	0.	0.	0.
BA152	0.	2.43E-04	0.	0.	0.	0.	0.
LA138	0.	9.32E-17	9.32E-17	9.32E-17	9.32E-17	9.32E-17	9.32E-17
LA139	0.	0.	0.	0.	0.	0.	0.
LA140	0.	2.06E+01	2.06E+01	2.05E+01	2.05E+01	2.05E+01	2.05E+01
LA141	0.	7.26E-03	1.27E-01	9.40E-01	1.41E+00	1.68E+00	1.38E+00
LA142	0.	9.22E-02	7.11E-01	3.24E+00	3.93E+00	3.13E+00	1.69E+00
LA143	0.	4.82E+00	3.25E+01	1.58E+01	6.91E+00	5.81E-01	9.38E-03
LA144	0.	1.64E+02	1.05E+02	2.51E-05	7.49E-13	0.	0.
LA145	0.	3.16E+02	3.97E+01	2.91E-08	1.21E-18	0.	0.
LA146	0.	9.81E+02	6.13E-02	0.	0.	0.	0.
LA147	0.	4.45E+02	1.24E-01	0.	0.	0.	0.
LA148	0.	8.01E+02	1.17E-05	0.	0.	0.	0.
LA149	0.	9.79E+01	2.42E-11	0.	0.	0.	0.
LA150	0.	3.28E+01	1.42E-21	0.	0.	0.	0.
LA151	0.	2.62E+00	0.	0.	0.	0.	0.
LA152	0.	2.42E-01	0.	0.	0.	0.	0.
LA153	0.	1.41E-02	0.	0.	0.	0.	0.
LA154	0.	5.82E-04	0.	0.	0.	0.	0.
LA155	0.	0.	0.	0.	0.	0.	0.
CE140	0.	0.	0.	0.	0.	0.	0.
CE141	0.	9.07E+00	9.07E+00	9.07E+00	9.07E+00	9.06E+00	9.05E+00
CE142	0.	8.85E-12	8.85E-12	8.85E-12	8.85E-12	8.85E-12	8.85E-12
CE143	0.	1.10E+01	1.10E+01	1.11E+01	1.11E+01	1.10E+01	1.06E+01
CE144	0.	1.07E+00	1.07E+00	1.07E+00	1.07E+00	1.07E+00	1.07E+00

TABLE VII (cont'd)

RIA-1-1-FRESH 180MEV/F-DECAY-5.8SPECT

POWER= .00MW, BURNUP= 0.MWD, FLUX= 2.01E+12N/CM**2-SEC

NUCLIDE RADICACTIVITY, CURIES
BASIS = RIA-1-1-FRESH(525.3G-5.78P(

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
CE145	0.	6.84E+00	7.65E+01	3.83E+00	1.15E-01	3.17E-06	7.93E-14
CE146	0.	4.74E+00	1.57E+01	7.66E+00	3.40E+00	2.96E-01	5.06E-03
CE147	0.	8.38E+01	5.06E+01	8.32E-03	4.17E-07	5.23E-20	1.65E-41
CE148	0.	1.46E+02	2.50E+01	1.72E-05	1.72E-12	1.71E-33	0.
CE149	0.	1.93E+03	3.72E-11	0.	0.	0.	0.
CE150	0.	7.74E+02	3.20E-21	0.	0.	0.	0.
CE151	0.	1.99E+02	0.	0.	0.	0.	0.
CE152	0.	4.65E+00	1.24E-02	1.63E-21	5.69E-43	0.	0.
CE153	0.	3.00E+00	3.44E-21	0.	0.	0.	0.
CE154	0.	1.36E-01	1.19E-11	0.	0.	0.	0.
CE155	0.	2.73E-02	0.	0.	0.	0.	0.
CE156	0.	1.63E-03	0.	0.	0.	0.	0.
CE157	0.	1.71E-04	0.	0.	0.	0.	0.
PR141	0.	0.	0.	0.	0.	0.	0.
PR142	0.	4.59E-07	4.58E-07	4.55E-07	4.51E-07	4.38E-07	4.17E-07
PR142M	0.	1.60E-07	1.46E-07	7.26E-08	3.29E-08	3.06E-09	5.86E-11
PR143	0.	1.90E+01	1.90E+01	1.90E+01	1.90E+01	1.90E+01	1.89E+01
PR144	0.	1.07E+00	1.07E+00	1.07E+00	1.07E+00	1.07E+00	1.07E+00
PR144M	0.	1.32E-02	1.32E-02	1.29E-02	1.29E-02	1.29E-02	1.29E-02
PR145	0.	4.63E-04	2.48E-01	9.57E-01	9.60E-01	8.72E-01	7.43E-01
PR146	0.	3.16E-02	9.46E-01	4.37E+00	4.64E+00	1.84E+00	2.00E-01
PR147	0.	4.53E-01	1.09E+01	7.01E+00	2.68E+00	1.49E-01	1.21E-03
PR148	0.	7.36E+00	3.80E+01	3.22E-01	9.98E-04	2.97E-11	8.52E-24
PR149	0.	2.19E+01	2.09E+01	2.91E-01	1.65E-03	4.73E-10	5.86E-21
PR150	0.	1.62E+02	2.84E-01	1.23E-22	0.	0.	0.
PR151	0.	2.68E+02	3.13E-07	0.	0.	0.	0.
PR152	0.	5.83E+01	3.31E-02	4.00E-21	1.40E-42	0.	0.
PR153	0.	1.81E+01	4.11E-04	0.	0.	0.	0.
PR154	0.	1.33E+01	1.87E-11	0.	0.	0.	0.
PR155	0.	1.43E+00	1.14E-19	0.	0.	0.	0.
PR156	0.	2.56E-01	0.	0.	0.	0.	0.
PR157	0.	2.67E-02	0.	0.	0.	0.	0.
PR158	0.	2.37E-03	0.	0.	0.	0.	0.
PR159	0.	9.07E-05	0.	0.	0.	0.	0.
ND142	0.	0.	0.	0.	0.	0.	0.
ND143	0.	0.	0.	0.	0.	0.	0.
ND144	0.	6.10E-18	6.11E-18	6.12E-18	6.13E-18	6.16E-18	6.22E-18
ND145	0.	0.	0.	0.	0.	0.	0.
ND146	0.	0.	0.	0.	0.	0.	0.
ND147	0.	7.95E+00	7.95E+00	7.95E+00	7.95E+00	7.93E+00	7.90E+00
ND148	0.	0.	0.	0.	0.	0.	0.
ND149	0.	1.66E-02	3.96E-01	7.82E-01	7.05E-01	5.05E-01	2.89E-01
ND150	0.	0.	0.	0.	0.	0.	0.
ND151	0.	1.05E+00	2.48E+00	1.09E+00	4.31E-01	2.63E-02	2.50E-04
ND152	0.	1.08E+00	1.67E+00	6.91E-01	2.53E-01	1.24E-02	8.18E-05
ND153	0.	8.44E+00	3.18E+00	3.80E-04	1.33E-08	5.64E-22	0.
ND154	0.	2.36E-01	2.36E-01	2.36E-01	2.36E-01	2.35E-01	2.34E-01
ND155	0.	3.03E+00	1.29E-01	8.83E-12	2.48E-23	0.	0.
ND156	0.	2.92E-01	7.10E-02	2.10E-06	1.50E-11	5.44E-27	0.
ND157	0.	6.06E-01	1.20E-09	0.	0.	0.	0.
ND158	0.	4.71E-02	1.24E-06	0.	0.	0.	0.
ND159	0.	1.45E-02	0.	0.	0.	0.	0.

TABLE VII (cont'd)

RIA-1-1-FRESH 18CMEV/F-DECAY-5.8SPECT

POWER= .CCMW, BURNUP= 0.MWD, FLUX= 2.01E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-FRESH(525.3G-5.78PC-

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
ND160	0.	1.86E-03	1.75E-20	0.	0.	0.	0.
ND161	0.	1.32E-04	0.	0.	0.	0.	0.
PM147	0.	4.34E-02	4.34E-02	4.34E-02	4.35E-02	4.37E-02	4.40E-02
PM148	0.	4.41E-05	4.41E-05	4.40E-05	4.40E-05	4.38E-05	4.35E-05
PM148M	0.	4.61E-06	4.61E-06	4.61E-06	4.60E-06	4.60E-06	4.60E-06
PM149	0.	4.18E+00	4.18E+00	4.17E+00	4.15E+00	4.11E+00	4.05E+00
PM150	0.	3.62E-04	3.59E-04	3.37E-04	3.14E-04	2.53E-04	1.77E-04
PM151	0.	5.49E-01	5.51E-01	5.57E-01	5.59E-01	5.50E-01	5.32E-01
PM152	0.	7.59E-02	5.58E-01	9.02E-01	3.83E-01	1.94E-02	1.27E-04
PM152M	0.	3.99E-02	3.32E-02	8.56E-03	1.83E-03	1.81E-05	8.16E-09
PM153	0.	2.58E-01	1.58E+00	3.68E-01	4.33E-02	7.07E-05	1.60E-09
PM154	0.	5.02E-01	4.09E-01	2.41E-01	2.36E-01	2.35E-01	2.34E-01
PM154M	0.	4.13E-01	1.91E-01	6.73E-04	1.10E-06	4.77E-15	5.52E-29
PM155	0.	1.91E+00	6.77E-01	5.66E-08	3.31E-16	0.	0.
PM156	0.	2.59E+00	9.53E-02	2.71E-06	1.93E-11	7.00E-27	0.
PM157	0.	2.16E-01	7.58E-02	9.67E-06	3.63E-10	1.92E-23	0.
PM158	0.	9.86E-01	2.40E-06	0.	0.	0.	0.
PM159	0.	1.43E-01	4.34E-10	0.	0.	0.	0.
PM160	0.	1.11E-01	3.30E-20	0.	0.	0.	0.
PM161	0.	4.15E-03	0.	0.	0.	0.	0.
PM162	0.	2.06E-04	0.	0.	0.	0.	0.
SM147	0.	2.54E-15	2.54E-15	2.55E-15	2.56E-15	2.59E-15	2.63E-15
SM148	0.	1.01E-22	1.01E-22	1.01E-22	1.01E-22	1.02E-22	1.02E-22
SM149	0.	1.45E-17	1.45E-17	1.45E-17	1.45E-17	1.46E-17	1.46E-17
SM150	0.	0.	0.	0.	0.	0.	0.
SM151	0.	6.87E-04	6.87E-04	6.87E-04	6.87E-04	6.88E-04	6.88E-04
SM152	0.	0.	0.	0.	0.	0.	0.
SM153	0.	5.29E-01	5.30E-01	5.32E-01	5.30E-01	5.24E-01	5.13E-01
SM154	0.	0.	0.	0.	0.	0.	0.
SM155	0.	9.27E-03	9.82E-02	7.59E-02	4.51E-02	9.46E-03	7.01E-04
SM156	0.	5.13E-04	1.86E-03	1.99E-03	1.95E-03	1.83E-03	1.65E-03
SM157	0.	3.01E-02	4.86E-02	1.71E-02	4.05E-03	5.32E-05	3.89E-08
SM158	0.	4.16E-03	5.54E-03	4.40E-03	3.38E-03	1.54E-03	4.14E-04
SM159	0.	2.26E-02	1.59E-02	3.70E-04	5.15E-06	1.39E-11	7.32E-21
SM160	0.	4.00E-03	3.41E-03	5.95E-04	8.17E-05	2.11E-07	1.03E-11
SM161	0.	1.17E-02	1.90E-05	5.13E-26	0.	0.	0.
SM162	0.	1.01E-03	1.46E-05	4.37E-19	1.88E-34	0.	0.
SM163	0.	5.22E-04	4.20E-18	0.	0.	0.	0.
SM164	0.	2.01E-05	6.27E-14	0.	0.	0.	0.
SM165	0.	3.38E-06	0.	0.	0.	0.	0.
EU151	0.	0.	0.	0.	0.	0.	0.
EU152	0.	1.27E-09	1.27E-09	1.27E-09	1.27E-09	1.27E-09	1.27E-09
EU152M	0.	2.81E-08	2.80E-08	2.75E-08	2.69E-08	2.53E-08	2.28E-08
EU153	0.	0.	0.	0.	0.	0.	0.
EU154	0.	6.82E-08	6.82E-08	6.82E-08	6.82E-08	6.82E-08	6.82E-08
EU155	0.	1.08E-03	1.08E-03	1.08E-03	1.08E-03	1.08E-03	1.08E-03
EU156	0.	4.01E-02	4.01E-02	4.01E-02	4.01E-02	4.00E-02	3.99E-02
EU157	0.	7.21E-04	7.84E-04	1.16E-03	1.26E-03	1.25E-03	1.17E-03
EU158	0.	3.45E-04	5.02E-04	1.36E-03	1.93E-03	2.09E-03	1.13E-03
EU159	0.	8.52E-04	2.31E-03	2.84E-03	1.54E-03	2.27E-04	9.31E-06
EU160	0.	7.04E-03	4.38E-03	6.97E-04	9.57E-05	2.48E-07	1.21E-11
EU161	0.	5.59E-03	1.50E-03	7.61E-10	5.30E-17	1.79E-38	0.

TABLE VII (cont'd)

RIA-1-1-FRESH 18GMEV/F-DECAY-5.8SPECT

POWER= .00MW, BURNUP= 0.MWD, FLUX= 2.01E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-FRESH(525.3G-5.78PC-

	CHARGE	DISCHARGE	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
EU162	0.	2.77E-04	2.61E-04	2.73E-05	2.09E-06	9.41E-10	2.48E-15
EU163	0.	1.08E-03	4.36E-06	6.15E-24	3.19E-44	0.	0.
EU164	0.	7.43E-04	1.28E-13	0.	0.	0.	0.
EU165	0.	1.06E-04	7.16E-19	0.	0.	0.	0.
GD152	0.	6.44E-23	6.44E-23	6.44E-23	6.44E-23	6.44E-23	6.45E-23
GD153	0.	2.26E-12	2.26E-12	2.26E-12	2.26E-12	2.26E-12	2.26E-12
GD154	0.	0.	0.	0.	0.	0.	0.
GD155	0.	0.	0.	0.	0.	0.	0.
GD156	0.	0.	0.	0.	0.	0.	0.
GD157	0.	0.	0.	0.	0.	0.	0.
GD158	0.	0.	0.	0.	0.	0.	0.
GD159	0.	3.25E-04	3.27E-04	3.53E-04	3.71E-04	3.81E-04	3.65E-04
GD160	0.	0.	0.	0.	0.	0.	0.
GD161	0.	3.17E-04	1.39E-03	1.12E-04	4.93E-06	4.22E-10	7.00E-17
GD162	0.	9.10E-05	1.17E-04	9.73E-05	3.60E-05	1.18E-06	3.65E-09
GD163	0.	3.38E-04	2.29E-04	3.20E-07	1.82E-10	3.36E-20	2.00E-36
GD164	0.	8.17E-06	8.89E-06	5.56E-06	3.27E-06	6.61E-07	4.60E-08
GD165	0.	4.23E-05	1.97E-05	4.47E-08	4.42E-11	4.29E-20	4.08E-35
TB159	0.	0.	0.	0.	0.	0.	0.
TB160	0.	2.87E-08	2.87E-08	2.87E-08	2.87E-08	2.87E-08	2.87E-08
TB161	0.	4.15E-04	4.15E-04	4.15E-04	4.15E-04	4.13E-04	4.11E-04
TB162	0.	1.80E-06	1.89E-05	9.15E-05	6.22E-05	3.75E-06	1.58E-08
TB162M	0.	9.27E-08	1.13E-07	2.84E-07	3.64E-07	3.26E-07	2.13E-07
TB163	0.	2.24E-06	2.48E-05	2.64E-05	1.46E-05	2.47E-06	1.28E-07
TB163M	0.	0.	0.	0.	0.	0.	0.
TB164	0.	1.16E-05	1.07E-05	6.47E-06	3.79E-06	7.67E-07	5.34E-08
TB165	0.	6.89E-05	2.94E-05	6.63E-08	6.57E-11	6.38E-20	6.07E-35
DY160	0.	0.	0.	0.	0.	0.	0.
DY161	0.	0.	0.	0.	0.	0.	0.
DY162	0.	0.	0.	0.	0.	0.	0.
DY163	0.	0.	0.	0.	0.	0.	0.
DY164	0.	0.	0.	0.	0.	0.	0.
DY165	0.	1.59E-08	3.50E-07	7.67E-07	7.08E-07	5.53E-07	3.67E-07
DY165M	0.	1.92E-06	1.49E-05	4.12E-08	1.23E-10	1.29E-19	1.22E-34
DY166	0.	3.07E-07	3.06E-07	3.06E-07	3.05E-07	3.03E-07	2.99E-07
HO165	0.	0.	0.	0.	0.	0.	0.
HO166	0.	4.21E-07	4.21E-07	4.20E-07	4.19E-07	4.17E-07	4.13E-07
HO166M	0.	4.82E-14	4.82E-14	4.82E-14	4.82E-14	4.82E-14	4.82E-14
ER166	0.	0.	0.	0.	0.	0.	0.
ER167	0.	0.	0.	0.	0.	0.	0.
ER167M	0.	6.47E-09	1.27E-24	0.	0.	0.	0.
TOTAL	0.	1.45E+05	2.97E+03	6.05E+02	4.46E+02	3.33E+02	2.99E+02

TABLE VIII

FISSION PRODUCT INVENTORY FOR RIA 1-1 PREIRRADIATED FUEL

The column labeled INITIAL lists the values immediately after the final burst and the other column headings refer to times after the final burst. The inventory is for the two preirradiated pins. Calculation is on the basis of an energy production rate of 200 MeV/fission during the preirradiation and 180 MeV/fission during the exposure in PBF.

TABLE VIII (cont'd)

RIA-1-1-IRRAD DECAY-2JJA1RJMEV/F

POWER= .J0MW, BURNUP= 4.MWD, FLUX= 2.54E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-PRE-IRR(1074.8G-2DI

		INITIAL	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
H	3	5.66E-10	5.66E-10	5.66E-10	5.66E-10	5.66E-10	5.66E-10
CO	72	1.06E-03	0.	0.	0.	0.	0.
CO	73	6.27E-05	0.	0.	0.	0.	0.
CO	74	1.52E-04	0.	0.	0.	0.	0.
CO	75	2.79E-06	0.	0.	0.	0.	0.
NI	72	1.58E-02	1.85E-17	0.	0.	0.	0.
NI	73	1.60E-02	0.	0.	0.	0.	0.
NI	74	4.03E-02	0.	0.	0.	0.	0.
NI	75	2.50E-02	0.	0.	0.	0.	0.
NI	76	9.37E-03	0.	0.	0.	0.	0.
NI	77	1.26E-03	0.	0.	0.	0.	0.
NI	78	1.81E-04	0.	0.	0.	0.	0.
CU	72	1.24E-02	4.21E-08	0.	0.	0.	0.
CU	73	4.46E-02	3.29E-11	0.	0.	0.	0.
CU	74	4.17E-01	0.	0.	0.	0.	0.
CU	75	5.68E-01	0.	0.	0.	0.	0.
CU	76	6.85E-01	0.	0.	0.	0.	0.
CU	77	2.88E-01	0.	0.	0.	0.	0.
CU	78	1.33E-01	0.	0.	0.	0.	0.
CU	79	1.72E-02	0.	0.	0.	0.	0.
CU	80	2.86E-03	0.	0.	0.	0.	0.
CU	81	1.92E-04	0.	0.	0.	0.	0.
ZN	72	1.93E-04	1.94E-04	1.93E-04	1.92E-04	1.90E-04	1.86E-04
ZN	73	1.39E-02	6.74E-04	3.60E-15	5.57E-28	0.	0.
ZN	74	1.49E-03	7.14E-03	1.41E-05	1.20E-08	7.30E-18	3.20E-33
ZN	75	4.38E-01	4.76E-05	0.	0.	0.	0.
ZN	76	1.85E+00	3.83E-07	0.	0.	0.	0.
ZN	77	5.73E+00	0.	0.	0.	0.	0.
ZN	78	5.30E+00	7.13E-15	0.	0.	0.	0.
ZN	79	4.04E+00	0.	0.	0.	0.	0.
ZN	80	2.14E+00	0.	0.	0.	0.	0.
ZN	81	4.80E-01	0.	0.	0.	0.	0.
ZN	82	5.43E-02	0.	0.	0.	0.	0.
ZN	83	4.41E-03	0.	0.	0.	0.	0.
GA	72	2.75E-04	2.75E-04	2.74E-04	2.73E-04	2.70E-04	2.64E-04
GA	73	2.00E-06	3.20E-05	3.18E-05	3.06E-05	2.72E-05	2.23E-05
GA	74	1.76E-04	1.88E-03	1.85E-03	1.58E-04	3.77E-06	3.29E-09
GA	75	8.76E-03	2.43E-02	1.15E-04	2.64E-07	3.14E-15	1.98E-29
GA	76	2.25E-01	3.21E-02	5.39E-12	4.20E-23	0.	0.
GA	77	1.87E+00	4.27E-03	1.79E-23	0.	0.	0.
GA	78	1.10E+01	6.88E-07	0.	0.	0.	0.
GA	79	1.89E+01	4.59E-12	0.	0.	0.	0.
GA	80	3.85E+01	2.45E-20	0.	0.	0.	0.
GA	81	3.29E+01	0.	0.	0.	0.	0.
GA	82	1.32E+01	0.	0.	0.	0.	0.
GA	83	3.34E+00	0.	0.	0.	0.	0.
GA	84	2.23E-01	0.	0.	0.	0.	0.
GA	85	0.	0.	0.	0.	0.	0.
GE	72	0.	0.	0.	0.	0.	0.
GE	73M	1.61E-04	3.60E-05	3.16E-05	3.06E-05	2.72E-05	2.23E-05
GE	74	0.	0.	0.	0.	0.	0.

TABLE VIII (CONT'D)

RTA-1-1-IRRAD DECAY-2[illegible]A18 MEV/F

POWER= .00MW, BURNUP= [illegible] 4.MWD, FLUX= 2.54E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RTA-1-1-PRE-IRR(1074.8G-2PT

		INITIAL	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
75		3.69E-06	5.90E-04	1.03E-03	9.02E-04	5.93E-04	2.95E-04
75M		2.64E-04	1.11E-03	8.69E-[illegible]	1.8FE-08	2.22E-16	1.30E-29
76		0.	0.	0.	0.	0.	0.
77		1.65E-04	3.85E-04	4.25E-04	4.18E-04	3.97E-04	3.65E-04
77M		5.90E-02	1.65E-01	2.26E-[illegible]	6.29E-12	1.47E-28	0.
78		2.53E-03	1.51E-02	1.34E-02	1.17E-02	7.87E-03	4.05E-03
79		3.10E+00	6.48E-01	4.48E-07	4.47E-14	4.45E-35	0.
80		1.75E+01	6.42E-01	5.88E-12	1.68E-24	0.	0.
81		5.81E+01	1.61E-02	0.	0.	0.	0.
82		1.15E+02	1.63E-06	0.	0.	0.	0.
83		1.64E+02	1.63E-17	0.	0.	0.	0.
84		4.15E+01	0.	0.	0.	0.	0.
85		2.16E+01	0.	0.	0.	0.	0.
86		4.02E+00	0.	0.	0.	0.	0.
87		6.89E-01	0.	0.	0.	0.	0.
88		1.01E-02	0.	0.	0.	0.	0.
75		0.	0.	0.	0.	0.	0.
76		8.49E-06	8.48E-06	8.43E-06	8.37E-06	8.18E-06	7.89E-06
77		4.61E-02	4.62E-02	4.61E-02	4.5[illegible]E-02	4.52E-02	4.41E-02
78		2.37E-04	4.63E-04	1.92E-03	3.18E-03	5.2[illegible]E-03	6.37E-03
78M		0.	0.	0.	0.	0.	0.
79		9.42E-02	3.57E-01	1.34E-01	3.71E-02	7.87E-04	1.24E-06
80		9.27E+01	1.66E+01	1.48E-11	5.39E-24	0.	0.
81		1.32E+01	2.83E+01	1.49E-[illegible]	5.84E-18	0.	0.
82		2.38E+01	7.63E-01	8.71E-15	1.2[illegible]E-30	0.	0.
82M		2.73E+01	5.24E-02	6.34E-22	0.	0.	0.
83		1.13E+02	2.96E-01	7.06E-21	0.	0.	0.
84		2.10E+02	1.31E-04	0.	0.	0.	0.
85		3.32E+02	5.2[illegible]E-16	0.	0.	0.	0.
86		2.39E+02	0.	0.	0.	0.	0.
87		2.27E+02	0.	0.	0.	0.	0.
88		9.33E+00	0.	0.	0.	0.	0.
89		7.52E-01	0.	0.	0.	0.	0.
90		0.	0.	0.	0.	0.	0.
76		0.	0.	0.	0.	0.	0.
77		0.	0.	0.	0.	0.	0.
77M		1.42E-04	1.35E-04	1.3[illegible]E-04	1.3[illegible]E-04	1.35E-04	1.30E-04
78		0.	0.	0.	0.	0.	0.
79		5.41E-05	5.41E-05	5.41E-05	5.41E-05	5.41E-05	5.41E-05
79M		6.72E-04	8.52E-02	1.[illegible]8E-01	6.[illegible]6E-02	1.39E-13	2.[illegible]6E-14
80		0.	0.	0.	0.	0.	0.
81		1.55E-02	9.62E-01	6.15E-01	3.35E-01	5.53E-02	4.16E-03
81M		9.94E-03	9.71E-03	8.15E-[illegible]	6.64E-03	3.63E-03	1.32E-03
82		0.	0.	0.	0.	0.	0.
82M		1.86E-01	6.54E-01	4.17E-01	2.49E-01	5.75E-02	4.1[illegible]E-03
83		4.99E+00	8.62E+00	1.3[illegible]E-[illegible]	6.64E-08	8.33E-21	2.62E-42
84		1.57E+01	1.4[illegible]E+01	6.7[illegible]E-[illegible]	1.[illegible]3E-[illegible]	5.5[illegible]E-07	1.4[illegible]E-14
85		5.94E+01	9.22E+00	1.49E-[illegible]	2.84E-14	0.	0.
85M		1.37E+02	1.74E+00	1.[illegible]E-14	2.19E-[illegible]	0.	0.
86		5.28E+02	2.3[illegible]E+00	2.[illegible]E-[illegible]	1.[illegible]E-34	0.	0.
87		7.25E+02	4.61E-04	0.	0.	0.	0.
88		5.98E+02	0.	0.	0.	0.	0.

TABLE VIII (cont'd)

RIA-1-1-IRRAD DECAY-2[illegible]180MEV/F

POWER= .00MW, BURNUP= 4.MWD, FLUX= 2.54E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-PRE-IRR(1074.8G-2PIN-

	INITIAL	120.SEC	1000.SEC	2000.SEC	5000.SEC	11000.SEC
SE 89	2.98E+02	0.	0.	0.	0.	0.
SE 90	1.04E+02	0.	0.	0.	0.	0.
SE 91	1.24E+01	0.	0.	0.	0.	0.
SE 92	2.68E-01	0.	0.	0.	0.	0.
SE 93	0.	0.	0.	0.	0.	0.
BR 79	0.	0.	0.	0.	0.	0.
BR 79M	9.95E-06	3.67E-13	0.	0.	0.	0.
BR 80	2.45E-06	2.28E-06	1.35E-06	7.73E-07	2.34E-07	1.25E-07
BR 80M	1.77E-07	1.76E-07	1.67E-07	1.62E-07	1.42E-07	1.14E-07
BR 81	0.	0.	0.	0.	0.	0.
BR 82	5.66E-03	5.67E-03	5.67E-03	5.64E-03	5.55E-13	5.4[illegible]E-0[illegible]
BR 82M	1.35E-02	1.08E-02	2.13E-0[illegible]	3.06E-04	1.[illegible]4E-16	8.14E-11
BR 83	2.97E-03	1.24E-01	2.12E-01	2.21E-01	2.[illegible]E-01	1.4[illegible]E-01
BR 84	5.42E-02	8.27E-01	1.75E+00	1.27E+00	4.29E-0[illegible]	6.97E-02
BR 84M	2.72E-01	2.16E-01	3.96E-02	5.77E-03	1.79E-05	1.18E-09
BR 85	5.42E+00	2.27E+01	7.39E-01	1.32E-02	7.52E-08	1.37E-16
BR 86	2.65E+01	2.18E+01	3.4[illegible]E-04	1.14E-09	4.35E-26	0.
BR 86M	2.92E+02	1.56E+01	1.74E-16	1.27E-34	0.	0.
BR 87	1.05E+02	4.23E+01	7.56E-14	3.05E-09	1.49E-25	0.
BR 88	6.30E+02	3.76E+00	8.20E-17	9.58E-36	0.	0.
BR 89	1.67E+03	1.59E-05	0.	0.	0.	0.
BR 90	2.51E+03	0.	0.	0.	0.	0.
BR 91	1.25E+03	0.	0.	0.	0.	0.
BR 92	7.24E+01	0.	0.	0.	0.	0.
BR 93	1.91E+01	0.	0.	0.	0.	0.
BR 94	1.33E+00	0.	0.	0.	0.	0.
BR 95	4.22E-02	0.	0.	0.	0.	0.
BR 96	2.62E-03	0.	0.	0.	0.	0.
KR 80	0.	0.	0.	0.	0.	0.
KR 81	1.37E-11	1.37E-11	1.37E-11	1.37E-11	1.37E-11	1.37E-11
KR 81M	1.45E-05	2.79E-08	3.37E-28	0.	0.	0.
KR 82	0.	0.	0.	0.	0.	0.
KR 83	0.	0.	0.	0.	0.	0.
KR 83M	9.34E-06	8.26E-04	1.84E-02	3.86E-02	8.48E-02	1.19E-01
KR 84	0.	0.	0.	0.	0.	0.
KR 85	1.15E+00	1.15E+00	1.15E+00	1.15E+00	1.15E+00	1.15E+00
KR 85M	4.70E-03	1.10E-01	3.63E-01	3.55E-01	3.13E-01	2.52E-01
KR 86	0.	0.	0.	0.	0.	0.
KR 87	3.63E-01	2.12E+00	2.31E+00	1.96E+00	1.26E+00	5.88E-01
KR 88	5.35E-01	1.63E+01	1.54E+00	1.43E+00	1.17E+00	8.27E-01
KR 89	7.21E+01	7.31E+01	2.93E+01	7.57E-02	1.31E-06	1.5[illegible]E-14
KR 90	5.72E+02	5.66E+01	3.18E-07	1.52E-16	0.	0.
KR 91	1.63E+03	1.22E-01	0.	0.	0.	0.
KR 92	2.76E+03	6.46E-17	0.	0.	0.	0.
KR 93	1.23E+03	0.	0.	0.	0.	0.
KR 94	7.92E+02	0.	0.	0.	0.	0.
KR 95	3.42E+01	0.	0.	0.	0.	0.
KR 96	5.75E+00	0.	0.	0.	0.	0.
KR 97	1.54E-01	0.	0.	0.	0.	0.
KR 98	3.55E-02	0.	0.	0.	0.	0.
RB 85	0.	0.	0.	0.	0.	0.
RB 86	1.42E-03	1.42E-03	1.42E-03	1.42E-03	1.42E-03	1.41E-03

POOR ORIGINAL

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TABLE VIII (cont'd)

RIA-1-1-IRRAD DECAY-2[illegible]MEV/F

POWER= .00MW, BURNUP= 4.MWD, FLUX= 2.54E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-PRE-IRR(1074.8G-2PI

	INITIAL	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
RB 86M	7.59E-03	1.95E-03	8.95E-08	1.36E-12	1.73E-27	0.
RB 87	3.71E-09	3.71E-09	3.71E-09	3.71E-09	3.71E-09	3.71E-09
RB 88	1.47E-01	2.44E-01	8.27E-01	1.14E+00	1.24E+00	9.22E-01
RB 89	9.53E-01	6.84E+00	1.36E+01	6.69E+00	6.94E-01	1.54E-02
RB 90	2.17E+01	8.66E+01	2.47E+01	4.46E-02	4.45E-06	6.01E-12
RB 90M	8.11E+00	1.58E+01	1.57E+00	1.16E-01	3.22E-05	4.44E-11
RB 91	1.95E+02	1.19E+02	3.35E-03	2.25E-08	6.94E-24	0.
RB 92	3.28E+03	5.49E-05	0.	0.	0.	0.
RB 93	2.32E+03	1.58E-03	0.	0.	0.	0.
RB 94	2.17E+03	7.80E-11	0.	0.	0.	0.
RB 95	2.97E+03	0.	0.	0.	0.	0.
RB 96	6.89E+02	0.	0.	0.	0.	0.
RB 97	1.17E+02	0.	0.	0.	0.	0.
RB 98	2.25E+01	0.	0.	0.	0.	0.
RB 99	2.00E+00	0.	0.	0.	0.	0.
RB100	1.38E-01	0.	0.	0.	0.	0.
RB101	0.	0.	0.	0.	0.	0.
SR 86	0.	0.	0.	0.	0.	0.
SR 87	0.	0.	0.	0.	0.	0.
SR 87M	9.06E-07	8.99E-07	8.46E-07	7.9[illegible]E-07	6.43E-07	4.5[illegible]E-07
SR 88	0.	0.	0.	0.	0.	0.
SR 89	9.32E+00	9.32E+00	9.32E+00	9.33E+00	9.32E+00	9.31E+00
SR 90	1.21E+01	1.21E+01	1.21E+01	1.21E+01	1.21E+01	1.21E+01
SR 91	6.29E-02	7.07E-01	8.94E-01	8.76E-01	8.25E-01	7.45E-01
SR 92	7.85E-01	2.81E+00	2.64E+00	2.46E+00	1.98E+00	1.39E+00
SR 93	3.16E+01	5.44E+01	1.40E+01	3.[illegible]E+00	2.96E-02	1.34E-05
SR 94	2.86E+02	1.25E+02	3.91E-02	4.18E-06	4.62E-19	5.7[illegible]E-38
SR 95	9.22E+02	3.93E+01	2.55E-09	6.73E-21	0.	0.
SR 96	3.76E+03	3.49E-16	0.	0.	0.	0.
SR 97	6.52E+03	0.	0.	0.	0.	0.
SR 98	1.97E+03	0.	0.	0.	0.	0.
SR 99	5.37E+02	0.	0.	0.	0.	0.
SR100	7.26E+01	0.	0.	0.	0.	0.
SR101	1.35E+01	0.	0.	0.	0.	0.
SR102	1.02E+00	0.	0.	0.	0.	0.
SR103	3.02E-02	0.	0.	0.	0.	0.
SR104	8.94E-04	0.	0.	0.	0.	0.
Y 89	0.	0.	0.	0.	0.	0.
Y 89M	1.50E-04	7.49E-07	1.00E-23	6.72E-43	0.	0.
Y 90	1.21E+01	1.21E+01	1.21E+01	1.21E+01	1.21E+01	1.21E+01
Y 90M	8.26E-06	8.20E-06	7.76E-06	7.30E-06	6.[illegible]6E-06	4.44E-06
Y 91	1.03E+01	1.03E+01	1.03E+01	1.03E+01	1.[illegible]2E+01	1.[illegible]2E+01
Y 91M	2.28E-02	2.94E-02	1.20E-01	2.[illegible]1E-01	3.45E-01	4.1[illegible]E-01
Y 92	3.59E-03	2.20E-02	1.48E-01	2.76E-01	5.67E-01	8.27E-01
Y 93	9.01E-02	2.25E-01	7.11E-01	8.31E-01	8.2[illegible]E-01	7.47E-01
Y 93M	0.	0.	0.	0.	0.	0.
Y 94	1.76E+00	1.75E+01	1.55E+01	8.42E+00	1.36E+00	6.5[illegible]E-02
Y 95	8.50E+00	4.21E+01	1.66E+01	5.54E+00	2.[illegible]4E-01	8.33E-04
Y 96	9.78E+01	1.15E+02	1.38E+00	9.09E-03	2.60E-09	3.22E-20
Y 97	1.23E+04	0.	0.	0.	0.	0.
Y 98	1.15E+04	0.	0.	0.	0.	0.
Y 99	5.63E+03	0.	0.	0.	0.	0.

TABLE VIII (cont'd)

RIA-1-1-IRRAD DECAY-200A18JMEV/F

POWER= .00MW, BURNUP= 4.M6D, FLUX= 2.54E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-PRE-IRR(1074.BG-2PIN

	INITIAL	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
Y100	2.54E+02	0.	0.	0.	0.	0.
Y101	7.39E+02	0.	0.	0.	0.	0.
Y102	2.07E+02	0.	0.	0.	0.	0.
Y103	2.35E+01	0.	0.	0.	0.	0.
Y104	1.46E+00	0.	0.	0.	0.	0.
Y105	5.65E-02	0.	0.	0.	0.	0.
Y106	0.	0.	0.	0.	0.	0.
Y107	1.21E-04	0.	0.	0.	0.	0.
ZR 96	0.	0.	0.	0.	0.	0.
ZR 96M	8.96E-06	3.28E-08	3.11E-18	2.92E-28	2.42E-48	1.78E-68
ZR 91	0.	0.	0.	0.	0.	0.
ZR 92	0.	0.	0.	0.	0.	0.
ZR 93	4.64E-04	4.64E-04	4.64E-04	4.64E-04	4.64E-04	4.64E-04
ZR 94	0.	0.	0.	0.	0.	0.
ZR 95	1.03E+01	1.03E+01	1.03E+01	1.03E+01	1.03E+01	1.03E+01
ZR 96	0.	0.	0.	0.	0.	0.
ZR 97	2.81E+00	2.65E+00	2.62E+00	2.55E+00	2.51E+00	2.37E+00
ZR 98	7.06E+02	5.98E+01	1.70E-07	3.31E-17	0.	0.
ZR 99	7.47E+03	5.35E-12	0.	0.	0.	0.
ZR100	3.03E+03	2.73E-02	0.	0.	0.	0.
ZR101	3.93E+03	4.80E-08	0.	0.	0.	0.
ZR102	2.96E+02	1.63E+01	9.03E-09	2.74E-19	0.	0.
ZR103	1.08E+03	4.24E-18	0.	0.	0.	0.
ZR104	1.03E+02	2.91E-08	0.	0.	0.	0.
ZR105	2.92E+01	0.	0.	0.	0.	0.
ZR106	6.19E+00	0.	0.	0.	0.	0.
ZR107	3.63E-01	0.	0.	0.	0.	0.
ZR108	2.38E-02	0.	0.	0.	0.	0.
ZR109	.92E-03	0.	0.	0.	0.	0.
NB 93	0.	0.	0.	0.	0.	0.
NB 93M	1.43E-04	1.43E-04	1.43E-04	1.43E-04	1.43E-04	1.43E-04
NB 94	4.97E-09	4.97E-09	4.97E-09	4.97E-09	4.97E-09	4.97E-09
NB 94M	1.63E-06	9.84E-06	1.94E-06	3.06E-07	1.21E-09	1.19E-12
NB 95	1.22E+01	1.22E+01	1.22E+01	1.22E+01	1.22E+01	1.24E+01
NB 95M	9.00E-03	9.00E-03	9.00E-03	4.01E-03	9.13E-02	9.07E-02
NB 96	1.20E-03	1.19E-03	1.19E-03	1.18E-03	1.15E-03	1.10E-03
NB 97	2.20E+00	2.21E+00	2.27E+00	2.31E+00	2.40E+00	2.41E+00
NB 97M	2.28E+00	2.28E+00	2.26E+00	2.24E+00	2.19E+00	2.14E+00
NB 98	7.64E-01	9.59E-12	0.	0.	0.	0.
NB 98M	1.96E-01	8.29E+01	7.29E+00	5.81E+00	2.95E+00	9.49E-01
NB 99	4.17E+02	6.32E+00	7.56E-19	2.38E-42	0.	0.
NB 99M	5.28E+02	3.03E+00	5.23E-02	5.11E-04	4.88E-10	4.51E-20
NB100	1.13E+03	2.06E-02	0.	0.	0.	0.
NB100M	1.13E+03	2.07E-02	0.	0.	0.	0.
NB101	1.37E+03	3.52E-02	0.	0.	0.	0.
NB102	2.76E+03	1.82E+01	1.31E-18	3.06E-19	0.	0.
NB103	5.80E+02	3.58E+00	4.42E-17	2.72E-36	0.	0.
NB104	2.14E+03	3.95E-08	0.	0.	0.	0.
NB105	4.23E+02	3.72E-18	0.	0.	0.	0.
NB106	2.58E+02	0.	0.	0.	0.	0.
NB107	2.92E+01	0.	0.	0.	0.	0.
NB108	4.08E+00	0.	0.	0.	0.	0.

TABLE VIII (cont'd)

RIA-1-1-IRRAD DECAY-2 [illegible]A180MEV/F

POWER= .00M**, BURNUP= 4.MWD, FLUX= 2.54E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-PRE-IRR(1074.8G-2P)

	INITIAL	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
NB109	5.05E-01	0.	0.	0.	0.	0.
NB110	1.99E-02	0.	0.	0.	0.	0.
NB111	1.72E-03	0.	0.	0.	0.	0.
NB112	0.	0.	0.	0.	0.	0.
MO 95	0.	0.	0.	0.	0.	0.
MO 96	0.	0.	0.	0.	0.	0.
MO 97	0.	0.	0.	0.	0.	0.
MO 98	0.	0.	0.	0.	0.	0.
MO 99	5.33E+01	5.34E+01	5.33E+01	5.31E+01	5.27E+01	5.19E+01
MO100	0.	0.	0.	0.	0.	0.
MO101	1.80E+00	2.60E+01	1.33E+01	5.88E+00	5.48E-01	1.05E-02
MO102	6.51E+00	2.76E+01	1.14E+01	4.04E+00	1.78E-01	9.78E-04
MO103	9.23E+01	8.53E+01	3.33E-	3.2 E-08	2.84E-23	0.
MO104	7.83E+01	4.42E+01	7.69E-02	5.63E-05	2.20E-14	4.62E-30
MO105	9.07E+01	2.26E+01	2.81E-04	7.45E-10	1.41E-26	0.
MO106	2.26E+02	2.34E-02	0.	0.	0.	0.
MO107	9.69E+01	2.24E-04	0.	0.	0.	0.
MO108	8.35E+01	0.	0.	0.	0.	0.
MO109	2.05E+01	0.	0.	0.	0.	0.
MO110	1.83E+00	1.48E-10	0.	0.	0.	0.
MO111	4.16E-01	0.	0.	0.	0.	0.
MO112	2.83E-02	0.	0.	0.	0.	0.
MO113	4.47E-03	0.	0.	0.	0.	0.
MO114	2.42E-04	0.	0.	0.	0.	0.
MO115	1.35E-05	0.	0.	0.	0.	0.
TC 99	2.83E-03	2.03E-03	2.03E-03	2.03E-03	2.03E-03	2.03E-03
TC 99M	5.06E+01	5.06E+01	5.06E+01	5.02E+01	4.99E+01	4.92E+01
TC100	1.69E+01	9.32E-02	2.59E-18	3.97E-33	0.	0.
TC101	3.75E-03	2.54E+00	1.34E+01	9.36E+00	2.11E+00	7.64E-02
TC102	2.27E+00	2.79E+01	1.15E+01	4.07E+00	1.79E-01	9.86E-04
TC102M	3.73E-02	2.70E-02	2.54E-03	1.73E-04	5.47E-08	8.01E-14
TC103	3.83E+00	1.05E+02	4.79E-02	1.98E-07	1.70E-22	0.
TC104	4.35E-01	5.59E+01	5.62E+01	2.96E+01	4.32E-01	1.74E-02
TC105	2.00E+00	1.01E+01	3.63E+00	8.58E-01	1.13E-02	8.24E-06
TC106	2.54E+01	4.08E+01	7.52E-07	5.50E-15	0.	0.
TC107	2.27E+01	2.50E+02	2.13E-09	8.85E-20	0.	0.
TC108	9.15E+01	1.42E-05	0.	0.	0.	0.
TC109	4.81E+00	9.95E-01	5.01E-06	4.77E-12	4.14E-30	0.
TC110	3.62E+01	2.63E-19	0.	0.	0.	0.
TC111	7.06E+00	0.	0.	0.	0.	0.
TC112	2.00E+00	0.	0.	0.	0.	0.
TC113	5.44E-01	0.	0.	0.	0.	0.
TC114	8.29E-02	0.	0.	0.	0.	0.
TC115	1.24E-02	0.	0.	0.	0.	0.
TC116	9.26E-04	0.	0.	0.	0.	0.
TC117	6.20E-05	0.	0.	0.	0.	0.
TC118	0.	0.	0.	0.	0.	0.
RU 99	0.	0.	0.	0.	0.	0.
RU100	0.	0.	0.	0.	0.	0.
RU101	0.	0.	0.	0.	0.	0.
RU102	0.	0.	0.	0.	0.	0.
RU103	8.94E+00	8.94E+00	8.94E+00	8.94E+00	8.93E+00	8.92E+00

TABLE VIII (cont'd)

RIA-1-1-IRRAD DECAY-2[illegible]18JMEV/F

POWER= .0UMW, BURNUP= 4.MWD, FLUX= 2.54E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-PRE-IRR(1074.8G-2PI[illegible]

	INITIAL	120.SEC	1000.SEC	2000.SEC	5000.SEC	1[illegible]000.SEC
RU104	0.	0.	0.	0.	0.	0.
RU105	2.63E-03	4.06E-02	3.13E-01	3.81E-01	3.57E-01	2.[illegible]E-01
RU106	5.94E-01	5.94E-01	5.94E-01	5.94E-01	5.[illegible]4E-01	5.94E-01
RU107	2.28E+00	6.03E+00	5.70E-01	3.64E-02	9.49E-06	1.01E-11
RU108	1.72E+00	2.94E+00	3.07E-01	2.36E-02	1.[illegible]7E-05	2.84E-11
RU109	9.13E+00	2.54E+00	1.67E-05	1.59E-11	1.38E-29	0.
RU110	1.43E+01	9.12E-02	2.53E-18	3.88E-37	0.	0.
RU111	7.59E+00	3.76E-02	2.49E-19	7.47E-39	0.	0.
RU112	2.93E+01	0.	0.	0.	0.	0.
RU113	6.54E+00	5.79E-13	0.	0.	0.	0.
RU114	1.43E+01	1.02E-07	0.	0.	0.	0.
RU115	1.40E+00	0.	0.	0.	0.	0.
RU116	2.18E-01	0.	0.	0.	0.	0.
RU117	1.25E-01	0.	0.	0.	0.	0.
RU118	1.91E-01	0.	0.	0.	0.	0.
RU119	0.	0.	0.	0.	0.	0.
RU120	6.11E-05	0.	0.	0.	0.	0.
RH103	0.	0.	0.	0.	0.	0.
RH103M	8.94E+00	8.94E+00	8.94E+00	8.94E+00	8.94E+00	8.93E+00
RH104	3.25E+01	4.78E+00	3.49E-02	2.45E-03	8.51E-07	1.45E-12
RH104M	4.18E-01	3.04E-01	2.94E-02	2.[illegible]E-03	7.15E-07	1.22E-12
RH105	6.69E+00	6.68E+00	6.65E+00	6.62E+00	6.52E+00	6.35E+00
RH105M	6.39E-04	5.52E-03	8.07E-02	9.84E-02	9.23E-02	7.44E-02
RH106	1.20E+00	6.32E-01	5.94E-01	5.94E-01	5.94E-01	5.94E-01
RH106M	1.07E-03	1.06E-03	9.74E-04	8.94E-04	6.86E-04	4.41E-04
RH107	7.65E-03	3.43E-01	1.04E+0[illegible]	6.83E-01	1.47E-[illegible]1	9.7[illegible]E-0[illegible]
RH108	5.56E-01	3.11E+00	3.28E-01	2.51E-02	1.14E-05	3.[illegible]E-11
RH108M	2.44E-02	1.53E-02	3.44E-03	4.86E-04	1.37E-06	7.65E-11
RH109	1.45E-01	2.61E+00	1.24E-02	5.68E-06	5.25E-16	9.91E-3[illegible]
RH109M	2.56E-01	1.84E+00	1.07E-04	2.12E-10	4.71E-28	0.
RH110	9.41E-01	1.10E+01	8.86E-10	3.69E-22	0.	0.
RH110M	4.85E+00	4.41E-12	0.	0.	0.	0.
RH111	[illegible].24E-01	9.24E-01	5.84E-15	9.73E-1[illegible]	4.[illegible]E-24	0.
RH112	1.25E+01	3.64E-07	0.	0.	0.	0.
RH113	2.80E+01	8.59E-13	0.	0.	0.	0.
RH114	1.33E+01	1.53E-07	0.	0.	0.	0.
RH115	3.01E+00	3.21E-06	0.	0.	0.	0.
RH116	5.65E+00	0.	0.	0.	0.	0.
RH117	9.39E+00	0.	0.	0.	0.	0.
RH118	1.87E+00	0.	0.	0.	0.	0.
RH119	3.29E-01	0.	0.	0.	0.	0.
RH120	3.17E-02	0.	0.	0.	0.	0.
RH121	5.27E-03	0.	0.	0.	0.	0.
RH122	7.62E-04	0.	0.	0.	0.	0.
RH123	9.53E-05	0.	0.	0.	0.	0.
PD104	0.	0.	0.	0.	0.	0.
PD105	0.	0.	0.	0.	0.	0.
PD106	0.	0.	0.	0.	0.	0.
PD107	3.16E-06	3.16E-06	3.16E-06	3.16E-06	3.16E-06	3.16E-06
PD107M	6.65E-09	1.38E-13	5.24E-18	3.[illegible]	0.	0.
PD108	0.	0.	0.	0.	0.	0.
PD109	1.33E-02	1.49E-02	3.42E-02	3.64E-02	3.41E-02	3.17E-02

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TABLE VIII (cont'd)

RIA-1-1<IRRAD DECAY-200A1R0MEV/F

POWER= .00MW, BURNUP= 4.M+0, FLUX= 2.54E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-PRE-IRR(1074.8G-2PI

	INITIAL	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
PD109M	1.16E-03	2.2RE-01	3.16E-01	2.72E-02	1.69E-05	7.51E-11
PD111	0.	0.	0.	0.	0.	0.
PD111	1.76E-03	8.97E-02	8.59E-02	5.08E-02	1.[illegible]E-02	8.22E-04
PD111M	8.34E-05	1.07E-04	1.68E-04	1.12E-04	1.01E-04	8.44E-05
PD112	1.65E-02	1.76E-02	[illegible]E-02	1.73E-02	1.68E-02	1.61E-02
PD113	4.[illegible]E-01	3.75E-01	4.89E-04	1.93E-07	1.79E-17	3.37E-34
PD114	2.63E-03	2.67E-01	3.[illegible]E-07	1.1[illegible]E-05	1.48E-11	5.91E-22
PD115	9.92E-01	1.78E-01	[illegible]E-08	2.28E-16	0.	0.
PD116	3.22E+00	8.40E-03	1.1[illegible]E-21	3.57E-43	0.	0.
PD117	7.85E+00	6.22E-07	0.	0.	0.	0.
PD118	5.74E+[illegible]	[illegible]E-11	0.	0.	0.	0.
PD119	6.83E+0[illegible]	[illegible]E-21	0.	0.	0.	0.
PD121	9.34E-01	[illegible]E-09	0.	0.	0.	0.
PD121	9.98E-01	0.	0.	0.	0.	0.
PD122	2.22E-01	0.	0.	0.	0.	0.
PD123	6.75E-02	0.	0.	0.	0.	0.
PD124	2.01E-02	0.	0.	0.	0.	0.
PD125	0.	0.	0.	0.	0.	0.
PD126	6.25E-04	0.	0.	0.	0.	0.
AG107	0.	0.	0.	0.	0.	0.
AG108	7.60E-08	4.27E-08	6.56E-10	3.19E-11	2.67E-11	2.67E-11
AG108M	3.46E-10	3.46E-10	3.46E-10	3.46E-10	3.46E-10	3.46E-10
AG109	0.	0.	0.	0.	0.	0.
AG109M	1.31E-02	1.40E-02	3.42E-02	7.54E-02	3.41E-02	3.18E-02
AG110	4.37E-03	4.37E-03	4.37E-03	4.37E-03	4.37E-03	4.37E-03
AG110M	5.65E-02	2.[illegible]E-03	3.[illegible]E-14	2.[illegible]E-26	0.	0.
AG111	7.28E-01	7.28E-01	7.28E-01	7.28E-01	7.28E-01	5.20E-01
AG111M	1.04E-04	4.27E-02	8.96E-02	5.31E-02	1.11E-02	8.76E-04
AG112	1.93E-02	1.93E-02	1.92E-02	1.91E-02	1.88E-02	1.81E-02
AG113	1.93E-05	2.43E-03	3.90E-03	3.76E-03	3.37E-03	2.81E-03
AG113M	2.33E-03	4.07E-02	1.64E-04	7.24E-08	6.68E-18	1.26E-34
AG114	2.32E-01	2.75E-01	3.9[illegible]E-03	7.2[illegible]E-05	1.[illegible]E-11	6.11E-22
AG115	2.18E-03	3.16E-02	2.21E-02	1.27E-02	2.45E-03	1.56E-04
AG115M	1.05E-01	8.20E-03	4.3[illegible]E-03	1.11E-16	0.	0.
AG116	3.52E-02	1.26E-01	2.84E-03	3.81E-05	0.22E-11	4.02E-20
AG116M	6.36E-01	1.26E-02	1.5[illegible]E-21	4.72E-43	0.	0.
AG117	8.35E-02	1.43E-01	3.45E-05	2.6[illegible]E-08	1.22E-21	3.[illegible]E-42
AG117M	1.04E+03	8.21E-06	0.	0.	0.	0.
AG118	2.39E+01	0.[illegible]E-09	0.	0.	0.	0.
AG118M	3.03E+00	1.24E-08	0.	0.	0.	0.
AG119	5.65E+00	8.03E-16	0.	0.	0.	0.
AG120	1.31E+01	4.7[illegible]E-09	0.	0.	0.	0.
AG121	5.02E+01	4.81E-12	0.	0.	0.	0.
AG122	7.66E+00	0.	0.	0.	0.	0.
AG123	3.25E+00	0.	0.	0.	0.	0.
AG124	2.31E+01	0.	0.	0.	0.	0.
AG125	5.78E-01	0.	0.	0.	0.	0.
AG126	2.48E-01	0.	0.	0.	0.	0.
AG127	0.	0.	0.	0.	0.	0.
AG128	4.30E-02	0.	0.	0.	0.	0.
CD108	0.	0.	0.	0.	0.	0.
CD109	7.66E-13	7.66E-13	7.66E-13	7.6[illegible]E-13	7.[illegible]E-13	7.[illegible]E-13

TABLE VIII (cont'd)

RIA-1-1-IRRAD DECAY-2[illegible]18MEV/F

POWER= .00MW, BURNUP= 4.MWD, FLUX= 2.54E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-PRE-IRR(1074.8G-2P)

	INITIAL	120.SEC	1[illegible]0.SEC	2[illegible]0.SEC	5[illegible]0.SEC	10[illegible]0.SEC
CD110	0.	0.	0.	0.	0.	0.
CD111	0.	0.	0.	0.	0.	0.
CD111M	4.24E-07	4.12E-07	3.34E-07	2.64E-07	1.29E-17	3.95E-08
CD112	0.	0.	0.	0.	0.	0.
CD113	0.	0.	0.	0.	0.	0.
CD113M	1.14E-03	1.14E-03	1.14E-03	1.14E-03	1.14E-03	1.14E-03
CD114	0.	0.	0.	0.	0.	0.
CD115	8.31E-02	8.82E-02	9.30E-02	9.27E-02	8.19E-02	8.05E-02
CD115M	4.0[illegible]E-03	4.0[illegible]E-03	4.0[illegible]E-03	4.[illegible]5E-03	4.[illegible]5E-03	4.[illegible]E-03
CD116	0.	0.	0.	0.	0.	0.
CD117	7.55E-05	3.56E-03	4.1[illegible]E-03	2.[illegible]5E-03	3.11E-03	2.1[illegible]E-03
CD117M	5.47E-05	1.64E-03	1.73E-03	1.[illegible]3E-03	1.[illegible]E-03	1.[illegible]E-03
CD118	1.22E-02	4.33E-02	1.91E-12	1.[illegible]1E-12	7.[illegible]E-[illegible]	2.41E-[illegible]
CD119	1.61E-02	4.93E-[illegible]	1.47E-[illegible]	4.90E-[illegible]	1.23E-04	2.53E-[illegible]
CD119M	4.73E-02	1.11E-01	4.62E-[illegible]	4.25E-04	2.47E-09	3.5[illegible]E-17
CD120	8.54E-01	2.5[illegible]E-01	1.5[illegible]E-06	1.81E-12	3.[illegible]2E-30	0.
CD121	3.66E+00	7.92E-03	1.60E-23	0.	0.	0.
CD122	9.89E+00	2.73E-06	0.	0.	0.	0.
CD123	8.55E+00	3.10E-04	0.	0.	0.	0.
CD124	7.23E+00	2.57E-12	9.5[illegible]E-19	2.81E-35	0.	0.
CD125	1.33E+01	0.	0.	0.	0.	0.
CD126	8.01E+00	2.05E-09	0.	0.	0.	0.
CD127	1.29E+01	0.	0.	0.	0.	0.
CD128	5.89E+00	0.	0.	0.	0.	0.
CD129	2.15E+00	0.	0.	0.	0.	0.
CD130	4.61E+00	0.	0.	0.	0.	0.
CD131	7.44E-01	0.	0.	0.	0.	0.
CD132	7.15E-02	0.	0.	0.	0.	0.
IN113	0.	0.	0.	0.	0.	0.
IN113M	1.64E-12	1.62E-12	1.4[illegible]E-12	1.[illegible]6E-12	9.18E-1[illegible]	5.1[illegible]E-1[illegible]
IN114	1.34E-04	4.93E-05	1.32E-[illegible]	1.[illegible]2E-[illegible]	1.[illegible]2E-05	1.32E-[illegible]
IN114M	1.0[illegible]E-05	1.0[illegible]E-05	1.[illegible]6E-[illegible]	1.[illegible]6E-[illegible]	1.[illegible]6E-05	1.[illegible]6E-[illegible]
IN115	1.45E-15	1.45[illegible]E-15	1.45E-15	1.45E-15	1.45E-15	1.45E-15
IN115M	9.[illegible]E-[illegible]	9.07E-[illegible]	9.[illegible]E-[illegible]	9.[illegible]E-[illegible]	8.[illegible]2E-12	8.[illegible]E-[illegible]
IN116	1.89E-01	5.41E-04	1.2[illegible]E-[illegible]	7.[illegible]E-44	0.	0.
IN116M	3.26E-[illegible]	3.18E-[illegible]	2.64E-[illegible]	2.1[illegible]E-[illegible]	1.12E-[illegible]	[illegible].[illegible]E-04
IN117	5.46E-07	3.29E-[illegible]	3.17E-[illegible]	[illegible].[illegible]E-[illegible]	[illegible].19E-[illegible]	1.[illegible]E-[illegible]
IN117M	2.03E-07	3.89E-05	4.37E-04	4.26E-04	1.41E-03	2.11E-03
IN118	1.29E-04	6.4[illegible]E-[illegible]	1.90E-[illegible]	1.6[illegible]E-[illegible]	[illegible].34E-[illegible]	2.66E-[illegible]
IN118M	4.52E-03	2.69E-17	1.	1.	0.	0.
IN119	9.[illegible]E-04	2.95E-[illegible]	7.87E-[illegible]	1.1[illegible]E-[illegible]	1.77E-04	7.63E-[illegible]
IN119M	1.36E-04	9.1[illegible]E-[illegible]	2.3[illegible]E-[illegible]	1.71E-[illegible]	3.14E-[illegible]	1.32E-04
IN120	2.34E-[illegible]	2.10E-01	[illegible].52E-[illegible]	1.62E-11	3.42E-[illegible]	0.
IN120M	[illegible].24E-[illegible]	1.[illegible]E-11	[illegible].[illegible]E-[illegible]	5.61E-[illegible]	1.[illegible]E-31	0.
IN121	1.66E-[illegible]	1.[illegible]E-[illegible]	6.74E-14	1.2[illegible]E-21	0.	0.
IN121M	2.39E-[illegible]	5.[illegible]E-[illegible]	2.[illegible]E-[illegible]	[illegible].1[illegible]E-[illegible]	[illegible].23E-09	5.59E-17
IN122	1.14E+00	5.84E-03	0.	0.	0.	0.
IN122M	2.66E+00	0.	0.	0.	0.	0.
IN123	2.31E+[illegible]	[illegible].42E-04	0.	0.	0.	0.
IN123M	2.62E-01	1.[illegible]E-01	3.14E-[illegible]	1.[illegible]3E-13	[illegible].[illegible]E-32	0.
IN124	1.37E+[illegible]	3.16E-[illegible]	1.1[illegible]E-17	[illegible].49E-[illegible]	0.	0.
IN125	1.29E+01	1.[illegible]E-14	0.	0.	0.	0.

TABLE VIII (cont'd)

RIA-1-1-IRRAD DECAY-2^JA18JMEV/F

POWER= .00MW, BURNUP= 4.MWD, FLUX= 2.54E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-PRE-IRR(1074.8G-2PI

	INITIAL	120.SEC	1[C0.SEC	2010.SEC	5030.SEC	10000.SEC
IN125M	2.75E+00	3.30E-03	0.	0.	0.	0.
IN126	7.79E+01	3.46E-09	0.	0.	0.	0.
IN127	4.28E+01	3.98E-17	0.	0.	0.	0.
IN127M	2.70E+01	3.39E-09	0.	0.	0.	0.
IN128	6.71E+01	1.21E-08	0.	0.	0.	0.
IN129	1.29E+02	0.	0.	0.	0.	0.
IN130	2.56E+02	0.	0.	0.	0.	0.
IN131	1.00E+02	0.	0.	0.	0.	0.
IN132	3.11E+01	0.	0.	0.	0.	0.
IN133	2.78E+00	0.	0.	0.	0.	0.
IN134	1.26E-01	0.	0.	0.	0.	0.
SN114	0.	0.	0.	0.	0.	0.
SN115	0.	0.	0.	0.	0.	0.
SN116	0.	0.	0.	0.	0.	0.
SN117	0.	0.	0.	0.	0.	0.
SN117M	7.93E-06	7.93E-06	7.92E-06	7.92E-06	7.91E-06	7.88E-06
SN118	0.	0.	0.	0.	0.	0.
SN119	0.	0.	0.	0.	0.	0.
SN119M	1.05E-04	1.05E-04	1.05E-04	1.05E-04	1.05E-04	1.05E-04
SN120	0.	0.	0.	0.	0.	0.
SN121	3.30E-02	3.36E-02	3.35E-02	3.33E-02	3.26E-02	3.14E-02
SN121M	8.68E-06	8.68E-06	8.68E-06	8.68E-06	8.68E-06	8.68E-06
SN122	0.	0.	0.	0.	0.	0.
SN123	8.56E-03	8.56E-03	8.56E-03	8.56E-03	8.56E-03	8.56E-03
SN123M	9.14E-04	1.65E-02	1.36E-02	1.02E-02	4.38E-03	1.01E-03
SN124	0.	0.	0.	0.	0.	0.
SN125	1.20E-01	1.20E-01	1.20E-01	1.20E-01	1.19E-01	1.19E-01
SN125M	5.46E-02	5.51E-01	5.23E-02	1.55E-02	4.16E-04	9.42E-07
SN126	4.34E-05	4.34E-05	4.34E-05	4.34E-05	4.34E-05	4.34E-05
SN127	3.60E-02	6.05E-02	5.59E-02	5.10E-02	3.89E-02	2.47E-02
SN127M	9.58E-01	6.85E-01	5.85E-02	3.58E-03	8.17E-07	6.36E-13
SN128	4.15E-01	4.78E-01	4.01E-01	3.30E-01	1.97E-01	6.88E-02
SN129	2.31E+00	2.02E+00	5.20E-01	1.11E-01	1.12E-03	4.96E-07
SN129M	1.12E+01	6.64E+00	1.14E-01	1.12E-03	1.07E-09	9.47E-24
SN130	1.96E+01	1.89E+01	8.91E-01	3.92E-02	3.36E-06	5.57E-17
SN131	7.28E+01	1.96E+01	3.22E-03	2.13E-08	9.41E-23	0.
SN132	7.25E+01	6.07E+01	2.16E-06	6.45E-14	0.	0.
SN133	4.03E+02	0.	0.	0.	0.	0.
SN134	5.06E+01	0.	0.	0.	0.	0.
SN135	7.98E+00	0.	0.	0.	0.	0.
SN136	5.82E-01	0.	0.	0.	0.	0.
SB124	0.	0.	0.	0.	0.	0.
SB125	1.36E-03	1.36E-03	1.36E-03	1.35E-03	1.34E-03	1.32E-03
SB125M	3.03E-04	2.18E-04	1.93E-05	1.24E-06	3.22E-10	3.43E-16
SB126	0.	0.	0.	0.	0.	0.
SB124	4.38E-04	4.38E-04	4.38E-04	4.38E-04	4.38E-04	4.38E-04
SB124M	4.29E-04	1.80E-04	3.14E-07	2.32E-10	8.59E-20	1.88E-35
SB125	1.56E-01	1.56E-01	1.56E-01	1.56E-01	1.56E-01	1.56E-01
SB126	6.66E-03	6.65E-03	6.65E-03	6.65E-03	6.63E-03	6.61E-03
SB126M	2.15E-03	2.00E-03	1.12E-03	6.67E-04	1.44E-04	4.82E-05
SB127	1.51E+00	1.51E+00	1.50E+00	1.50E+00	1.49E+00	1.48E+00
SB128	2.48E-03	2.47E-03	2.43E-03	2.37E-03	2.23E-03	2.12E-03

TABLE VIII (Cont'd)

RIA-1-1-IRRAD DECAY-20JA180MEV/F

POWER= .00MW, BURNUP= 4.MWD, FLUX= 2.54E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-PRE-IRR(1074.8G-2PI)

	INITIAL	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
SB128M	9.49E-02	1.43E-01	3.23E-01	3.46E-01	2.20E-01	8.35E-02
SB129	3.53E-02	9.40E-02	1.93E-01	1.97E-01	1.76E-01	1.41E-01
SB130	2.74E+00	2.54E+00	8.11E-01	1.56E-01	8.42E-04	1.73E-07
SB130M	6.65E-01	1.22E+00	1.89E+00	1.45E+00	5.68E-01	1.19E-01
SB131	5.61E+00	7.65E+00	5.52E+00	3.34E+00	7.40E-01	6.[illegible]E-02
SB132	4.07E+01	3.43E+01	3.04E-01	1.24E-03	8.44E-11	9.56E-23
SB132M	2.05E+01	1.46E+01	1.23E+00	7.33E-02	1.56E-05	1.19E-11
SB133	7.05E+01	4.19E+01	6.76E-01	4.92E-03	2.63E-09	9.29E-2[illegible]
SB134	7.38E+02	0.	0.	0.	0.	0.
SB134M	1.07E+02	4.50E-02	0.	0.	0.	0.
SB135	4.15E+02	2.35E-19	0.	0.	0.	0.
SB136	1.30E+02	0.	0.	0.	0.	0.
SB137	1.45E+01	0.	0.	0.	0.	0.
SB138	1.62E+00	0.	0.	0.	0.	0.
SB139	1.15E-01	0.	0.	0.	0.	0.
TE122	0.	0.	0.	0.	0.	0.
TE123	5.76E-20	5.76E-20	5.76E-20	5.76E-20	5.76E-20	5.76E-20
TE123M	9.35E-09	9.35E-09	9.35E-09	9.35E-09	9.35E-09	9.34E-09
TE124	0.	0.	0.	0.	0.	0.
TE125	0.	0.	0.	0.	0.	0.
TE125M	3.73E-02	3.73E-02	3.73E-02	3.73E-02	3.73E-02	3.73E-02
TE126	0.	0.	0.	0.	0.	0.
TE127	1.43E+00	1.43E+00	1.42E+00	1.42E+00	1.41E+00	1.40E+00
TE127M	1.70E-02	1.70E-02	1.70E-02	1.70E-02	1.71E-02	1.71E-02
TE128	0.	0.	0.	0.	0.	0.
TE129	3.60E-01	3.60E-01	3.75E-01	3.93E-01	4.29E-01	4.47E-01
TE129M	5.42E-01	5.42E-01	5.42E-01	5.42E-01	5.42E-01	5.41E-01
TE130	0.	0.	0.	0.	0.	0.
TE131	5.27E-01	9.52E-01	2.83E+00	3.33E+00	2.[illegible]E+00	5.17E-01
TE131M	1.14E+00	1.14E+00	1.13E+00	1.13E+00	1.11E+00	1.07E+00
TE132	4.03E+01	4.03E+01	4.02E+01	4.01E+01	3.98E+01	3.93E+01
TE133	8.33E+00	1.33E+01	1.13E+01	4.40E+00	5.[illegible]E-01	9.29E-02
TE133M	4.22E+00	4.15E+00	3.46E+00	2.83E+00	1.51E+00	5.33E-01
TE134	1.19E+01	1.22E+01	9.56E+00	7.28E+00	3.19E+00	8.76E-01
TE135	8.00E+02	8.30E+00	1.39E-14	3.15E-31	0.	0.
TE136	4.18E+02	7.99E+00	1.94E-12	4.97E-27	0.	0.
TE137	5.15E+02	2.47E-08	0.	0.	0.	0.
TE138	3.15E+02	0.	0.	0.	0.	0.
TE139	6.57E+01	0.	0.	0.	0.	0.
TE140	5.66E+00	0.	0.	0.	0.	0.
TE141	3.43E-01	0.	0.	0.	0.	0.
TE142	2.64E-02	0.	0.	0.	0.	0.
I127	0.	0.	0.	0.	0.	0.
I128	6.24E-03	5.90E-03	3.93E-03	2.48E-03	6.19E-04	6.14E-05
I129	3.09E-06	3.09E-06	3.09E-06	3.09E-06	3.09E-06	3.[illegible]E-06
I130	8.53E-05	8.71E-05	9.39E-05	9.51E-05	9.18E-05	8.49E-05
I130M	1.35E-03	1.16E-03	3.76E-04	1.01E-04	2.06E-06	3.12E-09
I131	2.45E+01	2.45E+01	2.44E+01	2.44E+01	2.44E+01	2.43E+01
I132	4.15E+01	4.15E+01	4.14E+01	4.13E+01	4.1[illegible]E+01	4.[illegible]E+01
I133	6.63E+00	6.65E+00	6.74E+00	6.76E+00	6.67E+00	6.4[illegible]E+00
I133M	6.93E+01	6.71E-03	0.	0.	0.	0.
I134	8.31E-01	1.35E+00	3.41E+00	4.4[illegible]E+00	4.66E+00	2.54E+00

POOR ORIGINAL

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TABLE VIII (cont'd)

RIA-1-1-IRRAD DECAY-2??A1H?MEV/F

POWER= .00MW, BURNUP= 4.MWD, FLUX= 2.54E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-PRE-IRR(1074.8G-2P[illegible]

	INITIAL	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
I134M	1.03E+01	7.01E+00	4.16E-01	1.58E-02	1.11E-06	1.19E-13
I135	6.56E-01	1.29E+00	1.26E+00	1.22E+00	1.12E+00	9.68E-01
I136	7.02E+01	7.52E+01	5.01E-02	1.18E-05	1.56E-15	1.14E-34
I136M	1.92E+02	3.40E+01	1.03E-04	5.5?E-11	8.44E-3?	0.
I137	5.48E+02	2.15E+01	3.67E-15	2.13E-22	0.	0.
I138	1.06E+03	3.14E-03	0.	0.	0.	0.
I139	1.17E+03	1.06E-12	0.	0.	0.	0.
I140	6.59E+02	0.	0.	0.	0.	0.
I141	1.25E+02	0.	0.	0.	0.	0.
I142	1.73E+01	0.	0.	0.	0.	0.
I143	7.54E-01	0.	0.	0.	0.	0.
I144	5.66E-02	0.	0.	0.	0.	0.
I145	0.	0.	0.	0.	0.	0.
XE128	0.	0.	0.	0.	0.	0.
XE129	0.	0.	0.	0.	0.	0.
XE129M	1.38E-06	1.38E-06	1.37E-06	1.37E-06	1.37E-06	1.36E-06
XE130	0.	0.	0.	0.	0.	0.
XE131	0.	0.	0.	0.	0.	0.
XE131M	6.37E-02	6.38E-02	6.38E-02	6.39E-02	6.41E-02	6.45E-02
XE132	0.	0.	0.	0.	0.	0.
XE133	7.66E+01	7.66E+01	7.65E+01	7.65E+01	7.62E+01	7.57E+01
XE133M	1.12E+01	1.12E+01	1.12E+01	1.11E+01	1.1?E+01	1.?8E+01
XE134	0.	0.	0.	0.	0.	0.
XE134M	7.58E+01	0.	0.	0.	0.	0.
XE135	1.10E-01	1.14E-01	1.46E-01	1.74E-01	2.4?E-01	?.21E-01
XE135M	1.01E+00	9.3?E-01	5.72E-01	?.65E-01	1.9?E-01	1.4?E-01
XE136	0.	0.	0.	0.	0.	0.
XE137	6.22E+01	9.35E+01	6.81E+00	3.36E-01	4.?4E-05	1.19E-11
XE138	2.63E+01	3.17E+01	1.55E+01	6.88E+00	5.98E-01	1.02E-02
XE139	5.25E+02	7.65E+01	2.12E-0?	7.51E-13	0.	0.
XE140	1.18E+03	2.71E+00	9.01E-21	0.	0.	0.
XE141	2.33E+03	2.36E-18	0.	0.	0.	0.
XE142	9.40E+02	0.	0.	0.	0.	0.
XE143	2.03E+02	0.	0.	0.	0.	0.
XE144	?.34E+01	0.	0.	0.	0.	0.
XE145	1.68E+00	0.	0.	0.	0.	0.
XE146	1.27E-01	0.	0.	0.	0.	0.
XE147	1.40E-02	0.	0.	0.	0.	0.
CS133	0.	0.	0.	0.	0.	0.
CS134	4.67E-01	4.67E-01	4.67E-01	4.67E-01	4.67E-01	4.67E-01
CS134M	9.77E-03	9.69E-03	9.14E-03	8.55E-03	7.?1E-03	5.13E-03
CS135	1.19E-04	1.19E-04	1.19E-04	1.19E-04	1.19E-04	1.19E-04
CS135M	1.44E-03	1.40E-03	1.16E-03	9.25E-04	4.8?E-04	1.6?E-04
CS136	2.42E-01	2.42E-01	2.42E-01	2.42E-01	2.41E-01	2.4?E-01
CS137	1.26E+01	1.26E+01	1.26E+01	1.26E+01	1.26E+01	1.26E+01
CS138	?.89E-01	2.1?E+01	7.58E+00	4.41E+0?	4.24E+0?	7.75E-01
CS138M	7.08E+00	4.39E+00	1.32E-01	2.45E-03	1.?8E-18	3.54E-17
CS139	1.17E+01	4.45E+01	1.69E+01	4.88E+00	1.18E-?1	2.36E-04
CS140	?.77E+02	1.3?E+02	9.7?E-0?	1.67E-07	1.31E-21	0.
CS141	5.62E+02	3.0?E+01	7.6?E-1?	6.91E-22	0.	0.
CS142	4.96E+03	4.15E-18	0.	0.	0.	0.
CS143	2.93E+03	1.67E-18	0.	0.	0.	0.

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TABLE VIII (cont'd)

RIA-1-1-IRRAD DECAY-2 [illegible]MEV/F

POWER= .[illegible]MW, BURNUP= [illegible] 4.MWD, FLUX= 2.54E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-PRE-IRR(1074.AG-2PI

	INITIAL	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
CS144	8.07E+02	0.	0.	0.	0.	0.
CS145	2.50E+02	0.	0.	0.	0.	0.
CS146	3.51E+01	0.	0.	0.	0.	0.
CS147	4.91E+00	0.	0.	0.	0.	0.
CS148	3.06E-01	0.	0.	0.	0.	0.
CS149	0.	0.	0.	0.	0.	0.
CS150	2.70E-04	0.	0.	0.	0.	0.
BA134	0.	0.	0.	0.	0.	0.
BA135	0.	0.	0.	0.	0.	0.
BA135M	7.32E-06	7.31E-06	7.27E-06	7.22E-06	7.08E-06	6.85E-06
BA136	0.	0.	0.	0.	0.	0.
BA136M	3.87E-02	3.87E-02	3.87E-02	3.86E-02	3.84E-02	3.85E-02
BA137	0.	0.	0.	0.	0.	0.
BA137M	1.19E+01	1.19E+01	1.19E+01	1.19E+01	1.19E+01	1.19E+01
BA138	0.	0.	0.	0.	0.	0.
BA139	8.55E-02	6.85E-01	4.07E+00	4.78E+00	3.54E+00	1.78E+00
BA140	3.97E+01	3.97E+01	3.97E+01	3.97E+01	3.96E+01	3.95E+01
BA141	6.81E+00	2.37E+01	1.43E+01	7.44E+00	1.12E+00	4.77E-02
BA142	2.82E+01	3.79E+01	1.47E+01	4.91E+00	1.95E-01	8.83E-04
BA143	1.41E+00	4.04E+01	1.74E-10	0.	0.	0.
BA144	1.65E+00	9.01E-01	0.	0.	0.	0.
BA145	1.36E+00	2.96E-13	0.	0.	0.	0.
BA146	1.12E+00	4.27E-14	0.	0.	0.	0.
BA147	2.37E+00	1.44E-14	0.	0.	0.	0.
BA149	1.62E+01	1.22E-05	0.	0.	0.	0.
BA149	5.82E+00	0.	0.	0.	0.	0.
BA150	2.61E-01	2.22E-21	0.	0.	0.	0.
BA151	0.	0.	0.	0.	0.	0.
BA152	1.10E-03	0.	0.	0.	0.	0.
LA138	4.04E-14	4.04E-14	4.04E-14	4.04E-14	4.04E-14	4.04E-14
LA139	0.	0.	0.	0.	0.	0.
LA140	4.08E+01	4.08E+01	4.08E+01	4.08E+01	4.08E+01	4.08E+01
LA141	7.46E-03	1.25E-01	9.19E-01	1.35E+00	1.64E+00	1.35E+00
LA142	9.37E-02	6.95E-01	3.15E+00	3.82E+00	3.58E+00	1.54E+00
LA143	4.65E+00	3.14E+01	1.52E+01	6.56E+00	5.62E-01	9.17E-03
LA144	1.59E+02	1.01E+02	2.42E-05	7.22E-13	0.	0.
LA145	3.05E+02	3.86E+01	2.83E-18	1.18E-18	0.	0.
LA146	9.53E+02	6.03E-22	0.	0.	0.	0.
LA147	4.37E+02	1.23E-01	0.	0.	0.	0.
LA148	8.18E+02	1.57E-05	0.	0.	0.	0.
LA149	1.11E+02	2.74E-11	0.	0.	0.	0.
LA151	4.24E+01	7.47E-21	0.	0.	0.	0.
LA151	4.26E+00	0.	0.	0.	0.	0.
LA152	5.79E-01	0.	0.	0.	0.	0.
LA153	5.6[illegible]E-03	0.	0.	0.	0.	0.
LA154	2.74E-03	0.	0.	0.	0.	0.
LA155	0.	0.	0.	0.	0.	0.
CE140	0.	0.	0.	0.	0.	0.
CE141	1.80E+01	1.80E+01	1.80E+01	1.80E+01	1.80E+01	1.80E+01
CE142	3.94E-09	3.94E-09	3.94E-09	3.94E-09	3.94E-09	3.94E-09
CE143	2.17E+01	2.17E+01	2.17E+01	2.16E+01	2.13E+01	2.07E+01
CE144	3.23E+01	3.23E+01	3.23E+01	3.23E+01	3.23E+01	3.23E+01

TABLE VIII (cont'd)

RIA-1-1-IRRAD DECAY-2?JA1?0MEV/F

POWER= .00MW, BURNUP= 4.MWD, FLUX= 2.54E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-PRE-IRR(1?74.86-2?I

	INITIAL	120.SEC	1000.SEC	2?10.SEC	5???.SEC	10???.SEC
CE145	6.71E+00	7.44E+01	3.74E+00	1.12E-01	3.?9E-?6	7.72E-14
CE146	4.63E+00	1.54E+01	7.51E+00	3.?3E+00	2.?0E-01	4.96E-??
CE147	8.17E+01	4.99E+01	8.20E-??	4.10E-17	5.19E-2?	1.62E-41
CE148	1.43E+02	2.48E+01	1.71E-?E	1.71E-12	1.7?E-?3	?.
CE149	1.93E+?3	4.21E-11	?.	?.	?.	?.
CE150	8.15E+02	7.82E-21	?.	?.	?.	?.
CE151	2.23E+02	?.	?.	?.	?.	?.
CE152	5.84E+??	1.56E-?2	2.?5E-21	7.1?E-43	?.	?.
CE153	5.4?E+??	6.26E-21	?.	?.	?.	?.
CE154	3.4?E-01	?.?4E-11	?.	?.	?.	?.
CE155	1.?5E-01	?.	?.	?.	?.	?.
CE156	8.?6E-03	?.	?.	?.	?.	?.
CE157	9.1?E-04	?.	?.	?.	?.	?.
PR141	?.	?.	?.	?.	?.	?.
PR142	1.16E-?2	1.16E-?2	1.15E-12	1.14E-?2	1.1?E-?2	1.1?E-?2
PR142M	1.91E-07	1.74E-17	?.67E-?8	3.93E-?8	3.66E-?9	7.1?E-11
PR143	3.73E+01	3.73E+01	3.73E+01	3.73E+01	3.72E+01	3.72E+01
PR144	3.23E+??	3.23E+??	3.23E+??	3.23E+??	3.23E+??	3.22E+??
PR144M	3.91E-?2	3.91E-?2	3.8?E-?2	3.8?E-?2	3.8?E-?2	3.?8E-?2
PR145	5.05E-04	2.41E-?1	9.31E-??	9.?0E-??	8.40E-?1	7.23E-?1
PR146	3.22E-?2	9.28E-01	4.28E+??	4.54E+??	1.?5E+??	1.9?E-?1
PR147	4.48E-01	1.07E+01	6.90E+??	2.64E+??	1.47E-?1	1.19E-??
PR148	7.?0E+??	3.77E+01	3.?1E-?1	9.?1E-?4	2.?5E-11	8.46E-24
PR149	2.?0E+01	2.10E+01	2.?3E-?1	1.67E-?3	4.76E-1?	5.?1E-21
PR150	1.68E+?2	2.55E-?1	1.?8E-22	?.	?.	?.
PR151	2.81E+?2	3.33E-?7	?.	?.	?.	?.
PR152	6.18E+01	4.11E-?2	5.?2E-21	1.7?E-42	?.	?.
PR153	2.?9E+01	4.84E-?4	?.	?.	?.	?.
PR154	1.7?E+01	4.77E-11	?.	?.	?.	?.
PR155	2.48E+??	2.?1E-19	?.	?.	?.	?.
PR156	7.17E-01	?.	?.	?.	?.	?.
PR157	1.12E-01	?.	?.	?.	?.	?.
PR158	1.14E-?2	?.	?.	?.	?.	?.
PR159	4.73E-?4	?.	?.	?.	?.	?.
ND142	?.	?.	?.	?.	?.	?.
ND143	?.	?.	?.	?.	?.	?.
ND144	1.84E-13	1.84E-13	1.84E-13	1.84E-13	1.84E-13	1.84E-13
ND145	?.	?.	?.	?.	?.	?.
ND146	?.	?.	?.	?.	?.	?.
ND147	1.60E+01	1.60E+01	1.59E+01	1.59E+01	1.59E+01	1.59E+01
ND148	?.	?.	?.	?.	?.	?.
ND149	1.90E-?2	4.02E-01	7.91E-01	7.13E-01	5.10E-01	2.93E-01
ND150	?.	?.	?.	?.	?.	?.
ND151	1.12E+??	2.64E+1?	1.1?E+??	4.57E-?1	?.?2E-??	?.65E-?4
ND152	1.16E+??	1.81E+??	7.46E-?1	2.73E-?1	1.34E-?2	?.94E-?E
ND153	9.04E+??	3.47E+??	4.15E-?4	1.4?E-?3	5.17E-22	?.
ND154	5.60E-01	5.59E-01	5.59E-01	5.58E-01	5.57E-01	5.54E-01
ND155	3.71E+??	1.61E-?1	1.1?E-11	3.?5E-?3	?.	?.
ND156	4.38E-?1	1.07E-?1	3.17E-?E	2.2?E-11	?.?0E-27	?.
ND157	1.22E+??	2.45E-??	?.	?.	?.	?.
ND158	1.24E-01	3.28E-?E	?.	?.	?.	?.
ND159	5.47E-?2	?.	?.	?.	?.	?.

TABLE VIII (cont'd)

RIA-1-1-IRRAD DECAY-20.0A18.0MEV/F

POWER= .00MW, BURNUP= 4.MWD, FLUX= 2.54E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-PRE-IRR(1074.8G-2PIN

	INITIAL	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
ND160	4.76E-04	4.43E-20	0.	0.	0.	0.
ND161	7.23E-04	0.	0.	0.	0.	0.
PM147	9.07E+00	9.07E+00	9.07E+00	9.07E+00	9.07E+00	9.07E+00
PM148	4.44E-01	4.44E-01	4.44E-01	4.44E-01	4.41E-01	4.38E-01
PM148M	1.02E-01	1.02E-01	1.02E-01	1.02E-01	1.02E-01	1.02E-01
PM149	8.50E+00	8.59E+00	8.55E+00	8.52E+00	8.47E+00	8.39E+00
PM150	3.86E-04	3.82E-04	3.57E-04	3.34E-04	2.69E-04	1.88E-04
PM151	1.18E+00	1.19E+00	1.19E+00	1.19E+00	1.17E+00	1.13E+00
PM152	8.03E-02	6.07E-01	9.75E-01	4.14E-01	2.09E-02	1.37E-04
PM152M	4.71E-02	3.92E-02	1.01E-02	2.16E-03	1.19E-05	9.63E-09
PM153	2.96E-01	1.74E+00	4.64E-01	4.76E-02	7.76E-05	1.76E-09
PM154	8.97E-01	7.72E-01	5.66E-01	5.59E-01	5.57E-01	5.54E-01
PM154M	5.23E-01	2.42E-01	8.54E-04	1.39E-06	6.35E-15	7.00E-29
PM155	2.53E+00	8.59E-01	7.14E-02	4.17E-16	0.	0.
PM156	3.85E+00	1.44E-01	4.78E-06	2.91E-11	1.16E-26	0.
PM157	3.56E-01	1.29E-01	1.64E-05	6.16E-10	3.25E-23	0.
PM158	1.71E+00	6.34E-06	0.	0.	0.	0.
PM159	3.29E-01	1.03E-09	0.	0.	0.	0.
PM160	2.02E-01	8.35E-20	0.	0.	0.	0.
PM161	2.17E-02	0.	0.	0.	0.	0.
PM162	8.77E-04	0.	0.	0.	0.	0.
SM147	1.12E-09	1.12E-09	1.12E-09	1.12E-09	1.12E-09	1.12E-09
SM148	1.66E-15	1.66E-15	1.66E-15	1.66E-15	1.66E-15	1.66E-15
SM149	1.51E-15	1.51E-15	1.51E-15	1.51E-15	1.51E-15	1.51E-15
SM150	0.	0.	0.	0.	0.	0.
SM151	2.68E-01	2.68E-01	2.68E-01	2.68E-01	2.68E-01	2.68E-01
SM152	0.	0.	0.	0.	0.	0.
SM153	1.71E+00	1.71E+00	1.71E+00	1.70E+00	1.68E+00	1.64E+00
SM154	0.	0.	0.	0.	0.	0.
SM155	1.60E-02	1.30E-01	9.96E-02	5.92E-02	1.24E-02	9.21E-04
SM156	9.59E-04	2.97E-03	3.15E-02	3.09E-03	2.91E-03	2.62E-03
SM157	5.46E-02	8.53E-02	2.99E-02	7.06E-03	9.27E-05	5.78E-08
SM158	7.37E-03	9.91E-03	7.85E-04	6.04E-03	2.75E-03	7.39E-04
SM159	5.09E-02	7.71E-02	8.35E-04	1.17E-05	3.14E-11	1.66E-21
SM160	9.12E-03	7.67E-03	1.34E-03	1.83E-04	4.75E-17	2.32E-11
SM161	5.54E-02	9.03E-05	2.45E-26	0.	0.	0.
SM162	3.91E-03	5.62E-05	1.69E-18	7.25E-34	0.	0.
SM163	2.03E-03	1.64E-17	0.	0.	0.	0.
SM164	8.93E-05	2.79E-13	0.	0.	0.	0.
SM165	1.43E-05	0.	0.	0.	0.	0.
EU151	0.	0.	0.	0.	0.	0.
EU152	1.29E-03	1.29E-03	1.29E-03	1.29E-03	1.29E-03	1.29E-03
EU152M	1.11E-03	1.11E-03	1.09E-03	1.07E-03	1.00E-03	9.06E-04
EU153	0.	0.	0.	0.	0.	0.
EU154	5.65E-02	5.65E-02	5.65E-02	5.65E-02	5.65E-02	5.65E-02
EU155	1.02E-01	1.02E-01	1.02E-01	1.02E-01	1.02E-01	1.02E-01
EU156	2.09E-01	2.09E-01	2.09E-01	2.08E-01	2.08E-01	2.08E-01
EU157	2.56E-03	2.67E-03	3.31E-03	3.46E-03	3.39E-03	3.19E-03
EU158	7.11E-04	9.89E-04	2.54E-03	5.50E-03	3.76E-03	2.12E-03
EU159	2.12E-03	5.43E-03	6.58E-03	7.54E-03	5.22E-04	2.18E-06
EU160	2.76E-02	1.24E-02	1.56E-03	2.18E-04	5.56E-07	2.71E-11
EU161	2.54E-02	6.99E-03	3.54E-09	2.46E-16	8.32E-28	0.

TABLE VIII (cont'd)

RIA-1-1-IRRAD DECAY-2 DA 180MEV/F

POWER= .00MW, BURNUP= 4.MWD, FLUX= 2.54E+12N/CM**2-SEC

NUCLIDE RADIOACTIVITY, CURIES
BASIS = RIA-1-1-PRE-IRR(1074.8G-2PI

	INITIAL	120.SEC	1000.SEC	2000.SEC	5000.SEC	10000.SEC
EU162	1.45E-03	1.29E-03	1.35E-04	1.03E-05	4.64E-09	1.22E-14
EU163	5.42E-03	2.15E-05	3.37E-2*	1.57E-4*	0.	0.
EU164	4.09E-03	5.70E-13	0.	0.	0.	0.
EU165	4.35E-04	2.54E-18	0.	0.	0.	0.
GD152	1.09E-16	1.09E-16	1.09E-16	1.09E-16	1.09E-16	1.09E-16
GD153	1.77E-06	1.77E-06	1.77E-06	1.77E-06	1.77E-06	1.77E-06
GD154	0.	0.	0.	0.	0.	0.
GD155	0.	0.	0.	0.	0.	0.
GD156	0.	0.	0.	0.	0.	0.
GD157	0.	0.	0.	0.	0.	0.
GD158	0.	0.	0.	0.	0.	0.
GD159	1.55E-03	1.55E-03	1.64E-03	1.64E-03	1.64E-03	1.56E-03
GD160	0.	0.	0.	0.	0.	0.
GD161	1.41E-03	6.42E-03	5.16E-04	2.27E-05	1.95E-09	3.23E-16
GD162	7.46E-04	8.36E-04	5.74E-04	2.07E-04	6.73E-06	2.09E-08
GD163	2.63E-02	4.52E-03	2.13E-06	1.21E-09	2.23E-19	1.33E-35
GD164	7.00E-05	7.24E-05	4.57E-05	2.66E-05	5.37E-06	3.74E-07
GD165	2.52E-04	1.19E-04	2.61E-07	2.58E-10	2.50E-19	2.38E-34
TB159	0.	0.	0.	0.	0.	0.
TB160	1.40E-04	1.40E-04	1.40E-04	1.40E-04	1.40E-04	1.40E-04
TB161	3.88E-03	3.88E-03	3.88E-04	3.87E-05	3.86E-13	3.84E-27
TB162	2.46E-05	1.63E-04	5.73E-04	3.70E-04	2.16E-05	9.03E-08
TB162M	1.32E-06	1.47E-06	2.48E-06	2.88E-06	2.49E-06	1.62E-06
TB163	2.84E-05	1.82E-04	1.86E-04	1.03E-04	1.74E-05	8.99E-07
TB163M	3.62E-12	2.97E-12	6.95E-13	1.33E-13	2.97E-15	7.74E-19
TB164	1.67E-04	1.33E-04	5.42E-05	3.09E-05	6.24E-06	4.35E-07
TB165	6.53E-04	1.91E-04	3.87E-07	5.83E-10	3.72E-19	3.54E-34
DY160	0.	0.	0.	0.	0.	0.
DY161	0.	0.	0.	0.	0.	0.
DY162	0.	0.	0.	0.	0.	0.
DY163	0.	0.	0.	0.	0.	0.
DY164	0.	0.	0.	0.	0.	0.
DY165	1.20E-06	5.62E-06	8.93E-06	8.24E-06	6.44E-06	4.28E-06
DY165M	3.26E-04	2.16E-04	2.82E-07	7.22E-10	7.50E-19	7.14E-34
DY166	1.07E-05	1.07E-05	1.07E-05	1.06E-05	1.06E-05	1.04E-05
HO165	0.	0.	0.	0.	0.	0.
HO166	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.58E-05	1.57E-05
HO166M	4.41E-10	4.41E-10	4.41E-10	4.41E-10	4.41E-10	4.41E-10
ER166	0.	0.	0.	0.	0.	0.
ER167	0.	0.	0.	0.	0.	0.
ER167M	1.23E-07	2.43E-23	0.	0.	0.	0.
TOTAL	1.42E+05	3.29E+03	9.49E+02	7.90E+02	6.77E+02	6.41E+12

APPENDIX A

SAMPLE ORIGEN DECK FOR THE IBM 360/75 AND ORIGEN CONTROL CARDS FOR THE CDC-7600

(RIA-ST-4)

SAMPLE ORIGEN DECK FOR THE IBM 360/75

```
JOB CARD
// COR=340,CPU=005,WT=002,SR=T1
// EXEC FORTHLG,PARM.LKED='XREF,LIST,OVLY,LET,SIZE=(128K,26K)',
//  REGION.LKED=160K,REGION.GO=340K,TIME=(4,30)
//LKED.SYSLIN DD DSN=L.BGSORIGN.OBJECTV1,DISP=(OLD,PASS),LABEL=(4,SL),
// UNIT=TP9ANY,VOL=SER=A03793,DCB=(RECFM=FBS,LRECL=80,BLKSIZE=3200)
//       DD DDNAME=SYSIN
//LKED.SYSIN DD *
 ENTRY MAIN
 OVERLAY ALPHA
 INSERT NUDATA,HALF,PHOLIB
 OVERLAY ALPHA
 INSERT TERM,DECAY,EQUIL
 OVERLAY ALPHA
 INSERT OUTPUT,GAMMA
/*
//GO.FT06F001 DD DSN=&&P,DISP=(MOD,PASS),SPACE=(TRK,(250,20)),
//    UNIT=SYSCRA,DCB=(RECFM=FBA,LRECL=133,BLKSIZE=1596)
//GO.FT07F001 DD DUMMY
//GO.FT07F002 DD UNIT=TP9ANY,VOL=SER=A03793,DISP=(OLD,PASS),
// LABEL=(6,SL),DSN=L.BGSORIGN.ACTXSLB1
//GO.FT07F003 DD UNIT=TP9ANY,VOL=SER=A03793,DISP=(OLD,PASS),
// LABEL=(12,SL),DSN=L.BGSORIGN.FPRXSLB2
//GO.FT07F004 DD DUMMY
//GO.FT07F005 DD DUMMY
//GO.FT03F001 DD DUMMY
//GO.FT52F001 DD DUMMY
//GO.SYSIN DD *
A  ORIGEN FOR RIA-ST-4-20PCSPECTRMM WEIGHTED                                    2
B   .5257      .064934    .80182       1.0E-25012679 3 0 0 2
B1 922350 922380
B2-H-235     103.71   67.397  0.0     583.138   163.38    .654467  1.50E-02.0    4.70E-052
B2-H-238       2.9601 19.337  0.0       0.0     .043065  .2970341 1.50E-02.0    1.50E-042
C      8     8     0     0     0     8     1     0     0     2
C1 - Light Elements
C1 - Actinides   111
C1-Fission Product 111          II          III
D RIA-ST-4 CALC-IRRADIATION IN EIGHT TIME STEPS
E  .0125    .025     .030     .035     .030     .0125    0.0      .990
G  1800.    2800.    3500.    4500.    4800.    6000.    139000.  139001.
H RIAST4 ROD1624.0 GRAMS UO2-20WT% ENR       1.0  SEC
I     .001      .001       .001       .001       .001       1.0 E 6    1.GE 4
K 922350 0.4680  922380 1.8479
  Blank                                                                 2
O      0     5     0     0     8     1     1     0     0     3
P    DECAY FOLLOWING BURST-RIA-ST-4-20PC
Q   120.    1000.    2000.    5000.    10000.
H RIAST4 ROD1624.0 GRAMS UO2-20WT% ENR       1.0  SEC
  Blank
 //PRINT EXEC PGM=IEBGENER,COND=EVEN
 //SYSPRINT DD SYSOUT=A
 //SYSUT1 DD DSN=&&P,DISP=(OLD,PASS)
 //SYSUT2 DD SYSOUT=A,SPACE=(TRK,(250,20),RLSE),
 //    DCB=(RECFM=FBA,LRECL=133,BLKSIZE=1596)
 //SYSIN DD DUMMY
 //MICRO EXEC S00661,DISP3='(OLD,PASS)',DSN3='&&P',MPGS=500,COND=EVEN
 //SYSIN DD *
 ORIGEN FOR RIA-ST-4-20 PC SPECTRUM          $ 1      Fiche Title
 /*
```

(Letters on left are input card labels. See ORNL-4628 and Appendix C)

ORIGEN CONTROL CARDS FOR CDC COMPUTER

```
W0OORG1,P1,137,STMFZ,SN,SP.
ACCOUNT,3223,4212F1C30,TAK,W00.
BEGIN(FTITLE,,$ORIGEN                                          $,DUP=$013,LFN=DUM)
COPYSP.
REWIND,INPUT.
ATTACH,TAPE7,ORGLIBED1A1F2D4D5,ID=BGS,ST=MFA.
ATTACH,ORIGEN,ORICEN2OLDCDC,ID=BGS,ST=MFA.
ORIGEN,PL=50000.
EXIT,U.
REWIND,OUTPUT.
COPY,OUTPUT,DUM.
```

789 Card

ORIGEN DECK

6789 Card

APPENDIX B

PREPARING SPECTRUM PARAMETERS AND CROSS SECTIONS FOR ORIGEN

The 3-group energy structure defines the thermal group as below 0.5 eV, the resonance group from 0.5 eV to 1 MeV and the fast group above 1 MeV. THERM is the ratio of the reaction rate (absorption) for the 1/v absorber in the actual thermal flux to the reaction rate for the 1/v absorber in an equal flux of 2200 m/sec neutrons. Boron-10 was the 1/v absorber used in the present calculation. The ratio of the calculated ^{10}B thermal absorption cross section to the 2200 m/sec value (3837 barns) is THERM since the same flux appears in both numerator and denominator of the reaction rate ratio. The thermal group cross sections used by ORIGEN are 2200 m/sec values. Thus the thermal group cross sections are divided by THERM for use in that library. The thermal fission (SIGF) and radiative capture (SIGNG) cross sections were input in this form for the uranium isotopes. The absorption minus the fission cross section was used for the (n,γ) reaction.

RES is the resonance flux per unit lethargy divided by the thermal flux, where the resonance range defined above has 14.5 lethargy units. The microscopic cross sections, coalesced over the spectrum in the resonance energy range, are multiplied by 14.5 before inputting to the code, and are thus functionally resonance integrals. They are denoted RIF and RING for the fission and (n,γ) resonance integrals, respectively.

FAST is the ratio of the flux above 1 MeV to the fraction of the fission spectrum above 1 MeV, divided by the thermal neutron flux, or 1.45 times the fast flux divided by the thermal flux. The coalesced fission cross section for the fast group is divided by 1.45 before entering in the ORIGEN library as SIGFF.

A total fission cross section is defined for ORIGEN

TOTFIS=SIGF*THERM+RIF*RES+SIGFF*FAST

This is multiplied by the thermal flux to yield the fission rate and that again is multiplied by appropriate constants (the code assumes 200 MeV/fission)

to yield power. In actual practice, the gram-atoms of the fissionable materials and the power were entered and the thermal flux was calculated by ORIGEN to satisfy the same relation. Although fluxes can be entered and the code will calculate power, entering power is most useful since the code calculates average fluxes for each interval based on changing nuclide concentrations. Also, power levels are typically more available than fluxes.

The ORIGEN cross section library also contains (n,2n) and (n,3n) cross sections. These were not updated since they were unavailable. This is not expected to be a major source of error, however, since at the high energies where the processes are important, the spectrum in any reactor should be similar to that in the reference LWR, namely, the fission spectrum. Thus, the coalesced cross sections should be the same.

APPENDIX C

CHANGES IN ORIGEN INPUT NOT IN ORNL-4628; CHANGING CROSS SECTIONS AND CONTROLLING OUTPUT EDITS

OVERRIDING ORIGEN LIBRARY DATA FOR ACTINIDES AND THEIR DAUGHTERS

The cross-section card from the ORIGEN Library (described on p. 26 of ORNL-4628) can be replaced by a corresponding card from the card reader for a maximum of 99 actinides. The argument list for card type B (p. 46 or ORNL-4628) includes LPU immediately after IR. LPU is read as an integer right-justified in column 54 and is the number of replacement isotopes to be accepted from the card reader.

For non-zero LPU the next card read will contain the list of nuclide identifiers (e.g., 922330) for which a replacement card is to be read:

```
B1.  IF(LPU.GT.0) READ (50,9050) (NEWCX(I), I = 1, LPU)
     9050 FORMAT (16, 10I7)
```

The values of NEWCX should be in the same order in which they are encountered in the library. For each value of NEWCX there follows the card which is to replace the cross-section card for that nuclide. These cards have the format described on page 26 of ORNL-4628. This replacement is only temporary and, or course, does nothing to modify the tape from which the data library is taken.

```
B2.  IF(NUCL(I).EQ.NEWCX(N)) READ (5,9037) SIGNG,RING,FNG1, SIGF,RIF,
     SIGFF,SIGN2N,FN2N1,SIGN3N,1T
     9037 FORMAT (7X,2F9.2,F5.3,4F9.2,F4.3,F9.2,I1)
```

OUTPUT EDIT CONTROL

The cards of type C and O now require variable JTO to be read in Col. 54 after MFEED. If JTO is zero (or blank) the program performs as before. If JTO = 1 no output is given. If JTO = 2 values for NTO are read from the following three cards as described below. If JTO = 3 values for NTO are assumed to be the same as before. On the first type C card JTO may not be 3 as this leaves NTO unassigned values.

The integer NTO contains 63 values representing each of 21 tables for each of the three groups of nuclides, i.e., light elements, actinides, and fission products. These values are assigned by reading 21 values each from three cards representing these three groups of nuclides respectively. Each integer is contained in a single column which is given in the table below. A non-zero number causes inclusion of the corresponding table in the output and a zero or blank causes suppression of the table.

Card Columns Which Apply to Inclusion of Each Table in the ORIGEN Output (NTO)

	Degree of Detail		
	All Nuclides All Times	All Elements All Times	Summary Tables
Gram atoms	11	12	13
Grams	21	22	23
Curies	31	32	33
Thermal power	41	42	43
γ Power	51	52	53
Hazard in Air	61	62	63
Hazard in Water	71	72	73

```
C1.  IF(JTO.EQ.2) READ (5,9015) NTO
     9015 FORMAT ((3X,7(7X,3I1)))
```

These are three of these cards, for light elements, actinides and fission products. If no output is desired for one of these, a blank card is entered in that position.

Appendix D: INPUT DOCUMENTATION

To record the power histograms used in the calculations, input card listings showing the power levels in megawatts (E-cards) at the corresponding elapsed times (G-cards) are included. The times are relative to an implied zero at the left of the card and are in seconds except for RIA 1-1 pre-irradiation period, which is in days. Also included are the K-cards, which list the input test-pin inventories of ^{235}U and ^{238}U in gram-atomic-weights.

RIA 1-1 Fresh Fuel

In this calculation two pins are involved. One of these undergoes preconditioning and a burst while the second is exposed only to the burst. This was modeled by setting up the input for a single pin but doubling the size of the final burst. An energy deposition in the test pins of 180 MeV/fission was assumed, so the "true" powers were multiplied by 200/180 before using as ORIGEN input.

```
RIA-1-1-FRESH FUEL-18C MEV/FISSIN-5.8 SPECTRUM                                  2
 .53788     .C351677  .299033      1.0E-25012679 3 0 0 2
922350 922380
         103.9    84.744   0.C    586.151   204.614   .854835  1.50E-02.0    4.70E-052
      2.96328 24.5207  0.0        0.0       .0311     .2942141 1.50E-02.0    1.50E-042

          111
          111          11          111
 RIA-1-1 FRESH FUEL 18C MEV/FISS
E .01711   C.0     .02778  .01C 3  .02778   .01134   .02378   .012547  0.0      .4189
G 10800.  46400.  53600.  614 .   65600.   70400.   74900.   82400.   585100. 585102.
RIA-1-1FRESH(525.3G-5.78PC-2PIN BURST)     1.0  SEC
     1.E-3     1.E-3     1.E-3       1.E-3       1.E-3       1.E 6       1.E 4
922350  .11402 922380 1.83245                                                    2

   0   5   0   C   10   1   1   0   0   3
RIA-1-1-FRESH 18CMEV/F-DECAY-5.8SPECT
  12C.    1COC.    2000.    5000.    10000.
RIA-1-1-FRESH(525.3G-5.78PC-2PIN BURST)    1.0  SEC
```

RIA 1-1 Pre-irradiated Pins

The first ten steps (in days) cover the one-year irradiation in Saxton and the subsequent decay from 1972 to 1978. The third through tenth steps are all decay steps; a very low power is input since ORIGEN will not accept two successive zero-power steps. An energy deposition rate of 200 MeV/fission is assumed for this portion of the exposure.

The second ten steps (in seconds) cover the pre-conditioning and burst. This portion of the calculations assumes an energy deposition rate of 180 MeV/fission so the"true" power levels have been multiplied by 200/180 before entering in the ORIGEN input.

```
RIA-1-1 PRE-IRRADIATION-10 STEPS                                                2
  0.6195    0.333     2.000        1.0E-25111478 3 0 0 0
   10   10    0    0    0   10    1    0    0    2

          111
          111          11          111
 RIA-1-1-PRE-2RRADIATED-10 TIME STEPS-tWR
E .01361  .01361  .01361  .000001 .000001 .000001 .000001 .000001  0.0      .000001
G 121.75  243.5   365.25  7CC.    1030.   1360.   1690.   2220.   2650.    2680.
RIA-1-1-PRE-IRR(2PINS-1074.8G-54G U235)  86400.DAY
     1.E-3     1.E-3     1.E-3       1.E-3       1.E-3       1.E 6       1.E 4
922350 .229744 922380 3.75263                                                   2

   1C   10    0    0   1C   10    1    0    0    3
 RIA-1-1 IRRAD FUEL PRE-C.E BURST 200&180MEV/FISS
E .03422  0.0     .05556  .02086  .05556  .02268  .04756  .02509  0.0      .413
G 10800.  46400.  53600.  61400.  65600.  70400.  74900.  82400.  585100. 585102.
RIA-1-1-PRE-IRR(1074.8G-2PIN-54G U25)     1.0  SEC
   0   5   C   0   10   1   1   0   0   3
RIA-1-1-IRRAD DECAY-200&180MEV/F
  120.    1000.    2000.    5C00.    10000.
RIA-1-1-PRE-IRR(1074.8G 2PIN-54G U25)     1.0  SEC
```

ORIGEN Input for PCM-1

As a trial of input sensitivity, the PCM-1 calculation was made with two input sets which differ in detail but have the same power-time integral. The differences in the fission product inventories are small, with the largest being about 1%.

The power values shown are 200/180 times the "true" power levels in the pin. This has been done to cause ORIGEN to calculate fission product inventories which are based on an energy deposition rate in the test pin of 180 MeV/fission.

```
  ORIGEN FOR PCM-1-20PC SPECT WTED-FIRST PEAK CORRECTED-180MEV/FIS          2
 922350 922380
          103.71   67.397  0.0    583.138  163.38    .854467  1.50E-02.0    4.70E-052
          2.9601   19.837  0.0      0.0    .043065  .2970341 1.50E-02.0    1.50E-042
   10   10    0      0     0  10    1     0     0    2

          111
          111           11        111
   PCM-1 CALC-IRRADIATION IN TEN TIME STEPS
E  .02722   0.0     .030      0.0     .02667    0.0     .02867   .05111   .05667   .05667
G  9000.    52600.  78000.    90000.  94200.    122180. 124880.  125180.  125530.  125780.
 PCM-1 ROD(628.9 GRAMS UO2-20PC ENR)              1.0   SEC
    .001     .001        .001        .001         .001        1.0 E 6     1.0E 4
K 922350 0.46680 922380 1.86721                                                        2

     C    3    0    0   10    1    1    0    0    3
 PCM-1-20PC [illegible]
  120.    1220.    17720.
 PCM-1 ROD(628.9 GRAMS UO2-20WT: ENR          1.0   SEC


  ORIGEN FOR PCM-1-20PC SPECT-PEAK 1 CORR.-FINE DETAILS-180MEV/FIS           2
 .5237      .064534    .80182       1.0E-25012675 3 0 0 2
 922350 922380
          103.71   67.397  0.0    583.138  163.38    .854467  1.50E-02.0    4.70E-052
          2.9601   19.837  0.0      0.0    .043065  .2970341 1.50E-02.0    1.50E-042
    9    9    0      0     0    9    1     0     0    2

          111
          111           11        111
   PCM-1 CALC-FINE DETAIL-FIRST 9 STEPS
 .00001   .02722    0.0     .010     .02356    0.0     .03167    0.0     .0373
 5000.    14000.    47000.  61000.   69000.    62000.  70000.    74000.  82000.
 PCM-1 ROD(628.9 GRAMS UO2-20PC ENR)             1.0    SEC
    .001     .001        .001        .001        .001        1.0 E 6     1.0E 4
K922350 0.46680 922380 1.86721                                                          2
     7    7    0    0    9    7    1    0    0    3
 PCM 1-20PC-7STEPS BEFORE DECAY-FINE DETAIL
    0.0     .02667    0.0      .02967   .05111    .05667  .05667
  13000.    11200.    45120.   47880.   48160.    48530.  48780.
 PCM-1 ROD(628.9 GRAMS UO2-20PC ENR)             1.0    SEC
     1    3    0    0    7    1    1    0    0    3
 PCM-1-20PC SPEC-DECAY
  120.     1220.     17720.
 PCM-1 ROD(628.9 GRAMS UO2-20WT: ENR           1.0   SEC
```

POOR ORIGINAL

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RIA ST-1

```
ORIGEN FOR RIA-ST-1 5.8 SPECTRUM                                                2
 .53788    .0351677  .299033     1.0E-25012679 3 0 0 2
922350 922380
          103.9    84.744  0.0    586.151  204.614  .854835  1.50E-02.0    4.70E-052
          2.96328 24.5207 0.0      0.0      .0311    .2942141 1.50E-02.0    1.50E-042
    9     9    0    0    0    9    1    0    0    2

          111
          111         11        111
 RIA-ST-1-IRRADIATION IN NINE STEPS
E .011786  0.0      .01887  0.0     .017265  0.0      .271     0.0      .3508
G 25200.  111600.  122400.  159000.  173400.  254280.  254281.  524520.  524521.
 RIA-ST-1 (494.6 GRAMS UO2-5.8WPC-25.2 U25 1.0  SEC
      1.E-3     1.E-3     1.E-3     1.E-3     1.E-3     1.E 6     1.E 4
X 922350 0.10721 922380 1.72594                                                 2

    0    5    0    0    9    1    1    0    0    3
   DECAY FOLLOWING BURST RIA-ST-1  5.8PC
  120.   1000.   2000.   5000.   10000.
 RIA-ST-1 (494.6 GRAMS UO2-5.8WPC-25.2 U25 1.0  SEC
```

RIA ST-2

```
ORIGEN FOR RIA-ST-2-5.8 SPECTRUM WEIGHTED                                       2
 .53788    .0351677  .299033     1.0E-25012679 3 0 0 2
922350 922380
          103.9    84.744  0.0    586.151  204.614  .854835  1.50E-02.0    4.70E-052
          2.96328 24.5207 0.0      0.0      .0311    .2942141 1.50E-02.0    1.50E-042
    1     1    0    0    0    1    1    0    0    2

          111
          111         11        111
 RIA-ST-2 CALC-IRRADIATION IN ONE TIME STEP
E .3446
G 1.0
 RIA-ST-2(494.7 GRAMS-5.779WT% ENR)  1.0  SEC
    .001      .001      .001      .001      .001      1.0 E 6    1.0E 4
X 922350 0.10721 922380 1.72594                                                 2

    0    5    0    0    1    1    1    0    0    3
   DECAY FOLLOWING BURST-RIA-ST-2
  120.    1000.    2000.   5000.   10000.
 RIA-ST-2(494.7 GRAMS-5.779WT% ENR)        1.0  SEC
```

RIA ST-4

```
ORIGEN FOR RIA-ST-4-20PC SPECTRUM WEIGHTED                                      2
 .5257     .064934   .80182      1.0E-25012679 3 0 0 2
922350 922380
          103.71   67.397  0.0    583.138  163.38   .854467  1.50E-02.0    4.70E-052
          2.9601   19.337  0.0      0.0      .043065 .2970341 1.50E-02.0    1.50E-042
    8     8    0    0    0    8    1    0    0    2

          111
          111         11        111
 RIA-ST-4 CALC-IRRADIATION IN EIGHT TIME STEPS
E .0125   .025     .030     .035     .030     .0125    0.0      .990
G 1800.   2800.   3500.    4500.    4800.    6000.    139000. 139001.
 RIAST4 ROD(624.0 GRAMS UO2-20WT% ENR       1.0  SEC
    .001      .001      .001      .001      .001      1.0 E 6    1.0E 4
X 922350 0.4680  922380 1.8479                                                  2

    0    5    0    0    8    1    1    0    0    3
   DECAY FOLLOWING BURST-RIA-ST-4-20PC
  120.    1000.    2000.   5000.   10000.
 RIAST4 ROD(624.0 GRAMS UO2-20WT% ENR       1.0  SEC
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