

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS) Eff 83a

ACCESSION NBR: 8309090401 DOC. DATE: 83/08/26 NOTARIZED: NO DOCKET #
 FACIL: 50-244 Robert Emmet Ginna Nuclear Plant, Unit 1, Rochester G 05000244
 AUTH. NAME: MAIER, J.E. AUTHOR AFFILIATION: Rochester Gas & Electric Corp.
 RECIP. NAME: MURLEY, T.E. RECIPIENT AFFILIATION: Region 1, Office of Director

SUBJECT: "Reot Radioactive Effluents, Jan-June 1983."

DISTRIBUTION CODE: IE255 COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 4
 TITLE: Periodic Environ Monitoring Reot (50 DKT)-Annual/Semiannual/Effluent/

NOTES: NRR/DL/SEP 1cv.

05000244

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NRR/DSI/METB		2	2	NRR/DSI/RAB	10	1	1
RM/DDAMI/MIB		1	1				
EXTERNAL: ACRS	11	1	1	LPDR	03	1	1
MRC POR	02	1	1	NTIS	05	1	1
NOTES:		1	1				

August 26, 1983

Dr. Thomas E. Murley, Regional Administrator
U.S. Nuclear Regulatory Commission
Region I
631 Park Avenue
King of Prussia, PA 19406

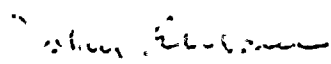
Dear Dr. Murley:

The enclosed information is being forwarded to you in accordance with the requirements of Technical Specification 6.9.3b for the period from January 1 to June 30, 1983.

During the first six months of 1983, 362.2 curies contained in 7512 cubic feet of solid waste was shipped from the plant to either Barnwell, South Carolina or Hanford, Washington, for burial. Also during this period, 658.3 curies of noble gasses and 19.3 curies of tritium was released through the plant ventilation system. Through liquid discharges, 213.6 curies of tritium and 7.1 curies of mixed fission products was released during the reporting period. Tabulations of this data are enclosed.

During the previous reporting period (July to December, 1982), the activity from the steam generator blowdown samples, which were being discharged to the discharge canal, was not included in the Semi Annual Discharge Report. The total activity released during that period from the blowdown samples was 7.77733 curies (detected by gross beta gamma counting) or about 1.3% of the activity reported (7.21 ci). (See NRC Inspection Report 8373).

Very truly yours,


John E. Maier

JEH/lvh

cc: Document Control Desk

6309090401 830826
PDR ADOCK 05000244
R PDR

7E25
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SOLID WASTE SHIPMENT
JANUARY 1 THRU JUNE 30, 1933

DATE	BURIAL LOCATION	VOLUME (FT) ³	CURIES
Jan. 10	Barnwell	444	1.7
Feb. 14	Barnwell	333	1.4
March 10	Barnwell	1001	1.3
23	Barnwell	30	75.3
28	Barnwell	30	70.3
April 12	Hanford	480	7.4
23	Barnwell	30	63.1
25	Hanford	1001	2.9
28	Barnwell	35	117.8
May 3	Barnwell	170	3.7
6	Hanford	1001	9.6
16	Barnwell	413	7.5
June 1	Hanford	1001	3.5
3	Barnwell	332	7.3
21	Hanford	1001	3.3
<hr/>			
15	10 Barnwell 5 Hanford	7512	362.2

APPENDIX A

REPORT RADIOACTIVE EFFLUENTS

FACILITY: ROCHESTER GAS & ELECTRIC GINNA STATION

DOCKET: 50-244

YEAR: 1983

I. LIQUID RELEASES

	UNITS	JAN.	FEB.	MAR.	APR.	MAY	JUNE	TOTAL
1. GROSS RADIOACTIVITY (β, γ)								
A) TOTAL RELEASED (except 2,3 & 4)	CURIES	2.78 E-2	3.15 E-2	2.04 E-2	3.45 E-3	1.68 E-2	1.32 E-3	0.101
B) AVERAGE CONCENTRATION RELEASED	$\mu\text{CI/ML}$	1.98 E-6	4.53 E-6	2.29 E-6	7.94 E-7	1.28 E-6	1.28 E-6	N/A
C) MAXIMUM CONCENTRATION RELEASED	$\mu\text{CI/ML}$	2.41 E-5	4.12 E-5	1.23 E-5	4.23 E-6	3.12 E-5	2.13 E-5	N/A
2. TRITIUM								
A) TOTAL RELEASED	CURIES	35.21	26.34	22.5	86.8	26.0	16.78	213.63
B) AVERAGE CONCENTRATION RELEASED	$\mu\text{CI/ML}$	5.61 E-7	4.6 E-7	3.69 E-7	2.65 E-6	8.62 E-7	3.59 E-7	N/A
C) PERCENT OF LIMIT	%	0.019	0.015	0.012	0.088	0.03	0.012	N/A
3. DISSOLVED NOBLE GASES								
A) TOTAL RELEASED	CURIES	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
B) AVERAGE CONCENTRATION RELEASED	$\mu\text{CI/ML}$	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4. GROSS ALPHA RADIOACTIVITY								
A) TOTAL RELEASED	CURIES	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
B) AVERAGE CONCENTRATION RELEASED	$\mu\text{CI/ML}$	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5. VOLUME OF LIQUID WASTE TO DISCHARGE CANAL	LITERS	2.1 E 6	1.74 E 6	1.5 E 6	6.8 E 5	8.2 E 5	1.97 E 6	8.82 E 6
6. VOLUME OF DILUTION WATER	LITERS	6.28 E10	5.73 E10	6.09 E10	3.27 E10	3.02 E10	4.67 E10	2.91 E11
7. ISOTOPES RELEASED	CURIES							
Cerium 141	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Ruthenium 103	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cesium 137	"	9.1 E-3	9.64 E-3	8.75 E-3	1.36 E-3	5.37 E-3	6.15 E-3	4.04 E-2
Cesium 134	"	6.93 E-3	6.07 E-3	5.9 E-3	9.75 E-4	3.86 E-3	4.01 E-3	2.77 E-2
Coalt 58	"	1.31 E-4	5.6 E-4	5.0 E-4	N.D.	5.0 E-5	N.D.	1.24 E-3
Coalt 60	"	8.34 E-3	1.19 E-3	3.95 E-3	3.19 E-4	5.95 E-3	2.3 E-3	2.2 E-2
Manganese 54	"	2.94 E-3	3.31 E-3	1.14 E-3	3.0 E-5	1.44 E-3	6.2 E-4	9.48 E-3
Zirconium 95	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Niobium 95	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cerium 144	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Tellurium 132	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Ruthenium 106	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Silver 110m	"	N.D.	N.D.	N.D.	N.D.	N.D.	3.0 E-6	3.0 E-6
Polybdenum 99	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony 125	"	N.D.	N.D.	N.D.	3.34 E-4	1.14 E-4	1.8 E-5	4.66 E-4
Antimony 124	"	N.D.	N.D.	N.D.	8.0 E-6	N.D.	N.D.	8.0 E-6
Iron 59	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Tellurium 129m	"	N.D.	N.D.	N.D.	1.6 E-5	N.D.	N.D.	1.6 E-5
Cesium 136	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Neptunium 239	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Iodine 131	"	2.64 E-4	1.3 E-6	8.0 E-5	4.16 E-4	N.D.	1.32 E-4	8.93 E-4
Iodine 132	"	2.5 E-5	1.2 E-5	5.6 E-6	N.D.	N.D.	N.D.	4.26 E-5
Iodine 133	"	5.4 E-5	1.4 E-5	1.1 E-5	N.D.	N.D.	N.D.	7.9 E-5
Iodine 134	"	7.9 E-6	8.7 E-6	3.5 E-6	N.D.	N.D.	N.D.	2.0 E-5
Iodine 135	"	4.2 E-5	1.58 E-5	9.1 E-6	N.D.	N.D.	9.0 E-7	6.78 E-5
PERCENT OF TECHNICAL SPECIFICATION LIMIT FOR ACTIVITY RELEASED (MIXED WEC IN CANAL)	%	0.0025	0.0028	0.0025	0.0006	0.003	0.0016	N/A

APPENDIX A

REPORT RADIOACTIVE EFFLUENTS

FACILITY: ROCHESTER GAS & ELECTRIC GINNA STATION

DOCKET: 50-244

YEAR: 1983

I. AIRBORNE RELEASES

	UNITS	JAN.	FEB.	MAR.	APR.	MAY	JUNE	TOTAL
TOTAL NOBLE GASES	CURIES	47.48	31.15	115.1	460.11	3.3	1.24	658.30
TOTAL HALOGENS	CURIES	1.01 E-3	8.47 E-5	3.99 E-2	1.35 E-2	1.15 E-4	1.22 E-5	1.51 E-2
TOTAL PARTICULATE GROSS RADIOACTIVITY (β, γ)	CURIES	1.53 E-6	N.D.	2.6 E-6	7.08 E-6	1.51 E-6	2.42 E-6	1.51 E-5
TOTAL TRITIUM	CURIES	5.76	3.10	4.64	3.51	1.19	0.34	19.04
TOTAL PARTICULATE GROSS ALPHA RADIOACTIVITY	CURIES	7.4 E-9	N.D.	2.38 E-7	3.09 E-7	2.69 E-7	1.58 E-7	9.81 E-7
MAXIMUM NOBLE GAS RELEASE RATE	μ CI/SEC	704.0	12.9	5100.0	16000.0	695.0	1070.0	N/A
PERCENT OF APPLICABLE LIMIT FOR:								
A) NOBLE GASES	%	0.036	0.026	0.0811	0.30	0.002	0.0008	N/A
B) HALOGENS	%	0.545	0.034	0.11	5.65	0.15	0.0033	N/A
C) PARTICULATES	%	N.D.	0.001	N.D.	0.0007	0.0002	0.0003	N/A
ISOTOPE RELEASED:								
PARTICULATES	CURIES							
Cesium 137	"	N.D.	1.2 E-6	N.D.	N.D.	N.D.	N.D.	1.2 E-6
Cobalt 58	"	N.D.	N.D.	N.D.	1.37 E-7	N.D.	N.D.	1.37 E-7
Barium/Lanthanum 140	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium 90	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cesium 134	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium 89	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Iodine 131	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt 60	"	N.D.	N.D.	N.D.	1.66 E-6	4.22 E-7	5.67 E-7	2.65 E-6
HALOGENS	CURIES							
Iodine 131	"	4.23 E-4	2.38 E-5	8.36 E-5	4.25 E-3	1.15 E-4	2.49 E-6	4.90 E-3
Iodine 133	"	5.91 E-4	6.09 E-5	1.12 E-5	1.48 E-4	N.D.	9.69 E-6	8.21 E-4
Iodine 135	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Iodine 134	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Iodine 132	"	N.D.	N.D.	3.99 E-4	9.15 E-3	N.D.	N.D.	9.55 E-3
GASES	CURIES							
Krypton 85	"	0.750	N.D.	2.58	1.48	1.07	1.181	7.06
Xenon 133	"	41.3	27.5	104.10	458.41	2.11	0.0174	633.44
Krypton 88	"	0.024	0.017	0.015	N.D.	N.D.	0.0002	0.056
Krypton 87	"	0.0213	0.014	0.013	N.D.	N.D.	0.0001	0.048
Krypton 85m	"	0.034	0.005	0.008	N.D.	N.D.	0.0001	0.047
Xenon 138	"	0.0239	0.018	0.016	N.D.	N.D.	0.0001	0.058
Xenon 135m	"	0.145	0.154	0.140	N.D.	N.D.	0.0011	0.440
Xenon 135	"	5.02	3.43	7.94	0.0009	N.D.	0.0009	16.392
Argon 41	"	0.0237	0.018	0.067	N.D.	N.D.	0.0001	0.109
Xenon 131m	"	0.029	0.004	0.098	0.120	0.120	0.04	0.411
Xenon 132m	"	0.069	N.D.	0.039	0.097	N.D.	N.D.	0.209
OTHERS AS APPROPRIATE (SPECIFY)	CURIES							
	"							
	"							

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8309090401 DOC. DATE: 83/08/26 NOTARIZED: NO DOCKET #
 FACIL: 50-244 Robert Emmet Ginna Nuclear Plant, Unit 1, Rochester G 05000244
 AUTH. NAME AUTHOR AFFILIATION
 MAIER, J.E. Rochester Gas & Electric Corp.
 RECIP. NAME RECIPIENT AFFILIATION
 MURLEY, T.E. Region 1, Office of Director

SUBJECT: "Reot Radioactive Effluents, Jan-June 1983."

DISTRIBUTION CODE: IE2SS COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 4
 TITLE: Periodic Environ Monitoring Reot (50 DKT)-Annual/Semiannual/Effluent/

NOTES: NRR/DL/SEP 1cv.

05000244

	RECIPIENT		COPIES			RECIPIENT		COPIES	
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INTERNAL:	AEUD		1	1	IE FILE	01	1	1	
	NRR/DE/EEB	08	1	1	NRR/DL/ORAB	09	1	1	
	NRR/DSI/METB		2	2	NRR/DSI/RAB	10	1	1	
	RM/DDAMI/MIB		1	1					
EXTERNAL:	ACRS	11	1	1	LPDR	03	1	1	
	NRC PDR	02	1	1	WTIS	05	1	1	
NOTES:			1	1					

August 25, 1933

Dr. Thomas E. Murley, Regional Administrator
U.S. Nuclear Regulatory Commission
Region I
631 Park Avenue
King of Prussia, PA 19406

Dear Dr. Murley:

The enclosed information is being forwarded to you in accordance with the requirements of Technical Specification 6.9.3b for the period from January 1 to June 30, 1933.

During the first six months of 1933, 362.2 curies contained in 7512 cubic feet of solid waste was shipped from the plant to either Barnwell, South Carolina or Hanford, Washington, for burial. Also during this period, 658.3 curies of noble gasses and 19.1 curies of tritium was released through the plant ventilation system. Through liquid discharges, 213.6 curies of tritium and 0.1 curies of mixed fission products was released during the reporting period. Tabulations of this data are enclosed.

During the previous reporting period (July to December, 1932), the activity from the steam generator blowdown samples, which were being discharged to the discharge canal, was not included in the Semi Annual Discharge Report. The total activity released during that period from the blowdown samples was 7.7753 curies (detected by gross beta gamma counting) or about 1.3% of the activity reported (7.21 ci). (See NRC Inspection Report 9312).

Very truly yours,

John E. Maier
John E. Maier

JEM/lvh

cc: Document Control Desk

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PDR ADCK 05000244
R PDR

IE35-
11

SOLID WASTE SHIPMENT

JANUARY 1 THRU JUNE 30, 1993

DATE	BURIAL LOCATION	VOLUME (FT) ³	CURIES
Jan. 10	Barnwell	444	0.7
Feb. 14	Barnwell	333	0.4
March 10	Barnwell	1001	1.3
23	Barnwell	30	75.7
28	Barnwell	30	73.7
April 12	Hanford	430	0.4
23	Barnwell	30	63.1
25	Hanford	1001	2.8
28	Barnwell	35	117.8
May 3	Barnwell	170	3.7
5	Hanford	1001	9.6
16	Barnwell	413	7.5
June 1	Hanford	1001	3.5
3	Barnwell	332	7.3
21	Hanford	1001	3.3
<hr/>			
15	10 Barnwell 5 Hanford	7512	362.2

APPENDIX A

REPORT RADIOACTIVE EFFLUENTS

FACILITY: ROCHESTER GAS & ELECTRIC GENERATION STATIONDOCKET: 50-244YEAR: 1983

I. LIQUID RELEASES

	UNITS	JAN.	FEB.	MAR.	APR.	MAY	JUNE	TOTAL
1. GROSS RADIOACTIVITY (β, γ)								
A) TOTAL RELEASED (except 2,3 & 4)	CURIES	2.78 E-2	3.15 E-2	2.04 E-2	3.45 E-3	1.68 E-2	1.32 E-3	0.101
B) AVERAGE CONCENTRATION RELEASED	$\mu\text{Ci/mL}$	1.98 E-6	4.53 E-6	2.29 E-6	7.94 E-7	1.28 E-6	1.28 E-6	N/A
C) MAXIMUM CONCENTRATION RELEASED	$\mu\text{Ci/mL}$	2.41 E-5	4.12 E-5	1.23 E-5	4.23 E-6	3.12 E-5	2.13 E-5	N/A
2. TRITIUM								
A) TOTAL RELEASED	CURIES	35.21	26.34	22.5	86.8	26.0	16.78	213.63
B) AVERAGE CONCENTRATION RELEASED	$\mu\text{Ci/mL}$	5.61 E-7	4.6 E-7	3.69 E-7	2.65 E-6	8.62 E-7	3.59 E-7	N/A
C) PERCENT OF LIMIT	%	0.019	0.015	0.012	0.088	0.03	0.012	N/A
3. DISSOLVED NOBLE GASES								
A) TOTAL RELEASED	CURIES	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
B) AVERAGE CONCENTRATION RELEASED	$\mu\text{Ci/mL}$	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4. GROSS ALPHA RADIOACTIVITY								
A) TOTAL RELEASED	CURIES	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
B) AVERAGE CONCENTRATION RELEASED	$\mu\text{Ci/mL}$	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5. VOLUME OF LIQUID WASTE TO DISCHARGE CANAL	LITERS	2.1 E 6	1.74 E 6	1.5 E 6	6.8 E 5	8.2 E 5	1.97 E 6	8.82 E 6
6. VOLUME OF DILUTION WATER	LITERS	6.28 E10	5.73 E10	6.09 E10	3.27 E10	3.02 E10	4.67 E10	2.91 E11
7. ISOTOPIES RELEASED	CURIES							
Cesium 141	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Ruthenium 103	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cesium 137	"	9.1 E-3	9.64 E-3	8.75 E-3	1.36 E-3	5.37 E-3	6.15 E-3	4.04 E-2
Cesium 134	"	6.93 E-3	6.07 E-3	5.9 E-3	9.75 E-4	3.86 E-3	4.01 E-3	2.77 E-2
Cobalt 58	"	1.31 E-4	5.6 E-4	5.0 E-4	N.D.	5.0 E-5	N.D.	1.24 E-3
Cobalt 60	"	8.34 E-3	1.19 E-3	3.95 E-3	3.19 E-4	5.95 E-3	2.3 E-3	2.2 E-2
Manganese 54	"	2.94 E-3	3.31 E-3	1.14 E-3	3.0 E-5	1.44 E-3	6.2 E-4	9.48 E-3
Zirconium 95	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel 95	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cerium 144	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Tellurium 132	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Ruthenium 106	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Silver 110m	"	N.D.	N.D.	N.D.	N.D.	N.D.	3.0 E-6	3.0 E-6
Polytechnum 99	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony 125	"	N.D.	N.D.	N.D.	3.34 E-4	1.14 E-4	1.8 E-5	4.86 E-4
Antimony 124	"	N.D.	N.D.	N.D.	8.0 E-6	N.D.	N.D.	8.0 E-6
Iron 59	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Tellurium 129m	"	N.D.	N.D.	N.D.	1.6 E-5	N.D.	N.D.	1.6 E-5
Cesium 136	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Neptunium 239	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Iodine 131	"	2.64 E-4	1.3 E-6	8.0 E-5	4.16 E-4	N.D.	1.32 E-4	8.93 E-4
Iodine 132	"	2.5 E-5	1.2 E-5	5.6 E-6	N.D.	N.D.	N.D.	4.26 E-5
Iodine 133	"	5.4 E-5	1.4 E-5	1.1 E-5	N.D.	N.D.	N.D.	7.9 E-5
Iodine 134	"	7.9 E-6	8.7 E-6	3.5 E-6	N.D.	N.D.	N.D.	2.0 E-5
Iodine 135	"	4.2 E-5	1.58 E-5	9.1 E-6	N.D.	N.D.	9.0 E-7	6.78 E-5
PERCENT OF TECHNICAL SPECIFICATION LIMIT FOR ACTIVITY RELEASED (MIXED WFC IN CANAL)	%	0.0025	0.0028	0.0025	0.0006	0.003	0.0018	N/A

APPENDIX A

REPORT RADIOACTIVE EFFLUENTS

FACILITY: ROCHESTER GAS & ELECTRIC GINNA STATION

DOCKET: 50-244

YEAR: 1983

I. AIRBORNE RELEASES

	UNITS	JAN.	FEB.	MAR.	APR.	MAY	JUNE	TOTAL
TOTAL NOBLE GASES	CURIES	47.48	31.15	115.1	460.11	3.3	1.24	658.30
TOTAL HALOGENS	CURIES	1.01 E-3	8.47 E-5	3.99 E-2	1.35 E-2	1.15 E-4	1.22 E-5	1.51 E-2
TOTAL PARTICULATE GROSS RADIOACTIVITY (β, γ)	CURIES	1.53 E-6	N.D.	2.6 E-6	7.08 E-6	1.51 E-6	2.42 E-6	1.51 E-5
TOTAL TRITIUM	CURIES	5.76	3.10	4.64	3.51	1.19	0.94	19.04
TOTAL PARTICULATE GROSS ALPHA RADIOACTIVITY	CURIES	7.4 E-9	N.D.	2.38 E-7	3.09 E-7	2.69 E-7	1.58 E-7	9.81 E-7
MAXIMUM NOBLE GAS RELEASE RATE	μ CI/SEC	704.0	12.9	5100.0	16000.0	695.0	1070.0	N/A
PERCENT OF APPLICABLE LIMIT FOR:								
A) NOBLE GASES	%	0.036	0.026	0.0811	0.30	0.002	0.0008	N/A
B) HALOGENS	%	0.545	0.034	0.11	5.65	0.15	0.0033	N/A
C) PARTICULATES	%	N.D.	0.001	N.D.	0.0007	0.0002	0.0003	N/A
ISOTOPE RELEASED:								
PARTICULATES	CURIES							
Cesium 137	"	N.D.	1.2 E-6	N.D.	N.D.	N.D.	N.D.	1.2 E-6
Cobalt 58	"	N.D.	N.D.	N.D.	1.37 E-7	N.D.	N.D.	1.37 E-7
Barium/Lanthanum 140	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium 90	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cesium 134	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium 89	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Iodine 131	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt 60	"	N.D.	N.D.	N.D.	1.66 E-6	4.22 E-7	5.67 E-7	2.65 E-6
HALOGENS	CURIES							
Iodine 131	"	4.23 E-4	2.38 E-5	8.36 E-5	4.25 E-3	1.15 E-4	2.49 E-6	4.90 E-3
Iodine 133	"	5.91 E-4	6.09 E-5	1.12 E-5	1.48 E-4	N.D.	9.69 E-6	8.21 E-4
Iodine 135	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Iodine 134	"	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Iodine 132	"	N.D.	N.D.	3.99 E-4	9.15 E-3	N.D.	N.D.	9.55 E-3
GASES	CURIES							
Krypton 85	"	0.750	N.D.	2.58	1.48	1.07	1.181	7.06
Xenon 133	"	41.3	27.5	104.10	458.41	2.11	0.0174	633.44
Krypton 88	"	0.024	0.017	0.015	N.D.	N.D.	0.0002	0.056
Krypton 87	"	0.0213	0.014	0.013	N.D.	N.D.	0.0001	0.048
Krypton 85m	"	0.034	0.005	0.008	N.D.	N.D.	0.0001	0.047
Xenon 138	"	0.0239	0.018	0.016	N.D.	N.D.	0.0001	0.058
Xenon 135m	"	0.145	0.154	0.140	N.D.	N.D.	0.0011	0.440
Xenon 135	"	5.02	3.43	7.94	0.0009	N.D.	0.0009	16.392
Argon 41	"	0.0237	0.018	0.067	N.D.	N.D.	0.0001	0.105
Xenon 131m	"	0.029	0.004	0.098	0.120	0.120	0.04	0.411
Xenon 132m	"	0.069	N.D.	0.039	0.097	N.D.	N.D.	0.205
OTHERS AS APPROPRIATE (SPECIFY)	CURIES							
	"							
	"							