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 50-270 OCONEE NUCLEAR STATION, UNIT 2, DUKE POWER CO. 05000270
 50-287 OCONEE NUCLEAR STATION, UNIT 3, DUKE POWER CO. 05000287
 AUTH. NAME: PARKER, W.O. AUTHOR AFFILIATION: DUKE POWER CO.
 RECIP. NAME: O'REILLY, J.P. RECIPIENT AFFILIATION: REGION 2, ATLANTA, OFFICE OF THE DIRECTOR

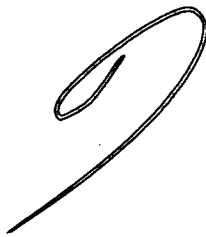
SUBJECT: FORWARDS EFFLUENT RELEASE & SOLID WASTE DISPOSAL SUMMARY FOR PERIOD 780701-1231. W/ANNUAL TOTALS FOR LIQUID & GASEOUS EFFLUENT RELEASES FOR SOLID WASTE DISPOSAL FOR 1978.

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NOTES: M. Cunningham - all AMDTS to FSAR + changes to Tech Specs

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EXTERNAL:	03 LPDR	1	1	04 NSIC	1	1
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MAR 6 1979



DUKE POWER COMPANY

POWER BUILDING

422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

February 22, 1979

TELEPHONE: AREA 704
373-4083

Mr. James P. O'Reilly, Director
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

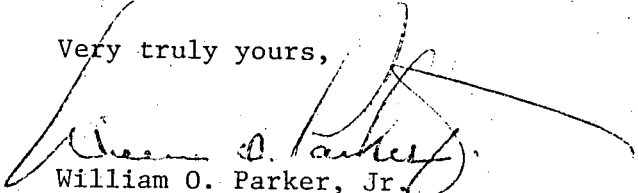
Re: Oconee Nuclear Station
Docket Nos. 50-269, -270, -287

Dear Sir:

Pursuant to 10CFR 50, §50.36 and Oconee Nuclear Station Technical Specification 6.6, please find attached the effluent release and solid waste disposal summary for the period July 1, 1978 - December 31, 1978. Also included are the annual totals for liquid and gaseous effluent releases and for solid waste disposal for 1978.

Please note that errors which were discovered in some of the gaseous effluent totals previously provided for the first two quarters of the year have been corrected in the attached summaries.

Very truly yours,


William O. Parker, Jr.

RLG:scs
Attachment

cc: Director, Office of Inspection & Enforcement
Washington, D. C.

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ATTACHMENT 1

RADIOACTIVE EFFLUENT RELEASES
SOLID WASTE

Docket # 50-269
Control # 790 3050319
Date 2-22-78 of Document:
REGULATORY DOCKET FILE

7/1/78 - 12/31/78

RADIOACTIVE EFFLUENT RELEASE
SOLID WASTE

Total volume of solid waste packaged (cubic feet) 55,881.42 for 1978

Total estimated activity involved (curies) 5,934.88 for 1978

Disposal of materials shipped off-site: All shipments to Chem-Nuclear Systems Waste Disposal Facility at Barnwell, South Carolina.

<u>DATE</u>	<u>CUBIC FT.</u>	<u># OF CURIES</u>
7/2/78	205	7.02E0
7/3/78	238	5.97E0
7/4/78	205	1.17E1
7/7/78	205	7.20E0
7/8/78	238	7.43E0
7/10/78	205	5.92E0
7/12/78	205	1.51E1
7/14/78	614.5	1.03E0
7/14/78	168	1.15E-2
7/15/78	238	1.45E1
7/16/78	15	3.48E0
7/17/78	205	2.43E1
7/18/78	205	1.24E1
7/21/78	50	5.18E-3
7/21/78	209	2.94E-3
7/23/78	205	1.10E1
7/24/78	148	2.46E-3
7/25/78	205	7.57E0
7/26/78	985	9.90E-1
7/27/78	205	4.91E0
7/31/78	205	4.77E0
7/31/78	5	6.10E-1
8/3/78	205	5.04E0
8/5/78	205	3.74E0
8/10/78	70	6.44E1
8/10/78	653	3.23E-1
8/11/78	205	5.35E0
8/11/78	238	2.22E1
8/16/78	205	6.54E0
8/16/78	0.64	5.95E2
8/17/78	1.28	1.19E3
8/17/78	465	1.62E-1
8/19/78	205	1.70E1
8/21/78	238	3.77E0
8/22/78	238	8.29E-1
8/22/78	205	4.72E1
8/24/78	238	5.84E0
8/26/78	205	3.15E0
8/26/78	238	2.84E0
8/29/78	205	3.26E0
8/30/78	238	7.31E0

8/31/78	631	9.10E-1
9/1/78	238	8.74E0
9/4/78	205	2.82E-1
9/7/78	205	6.68E0
9/10/78	205	8.82E0
9/14/78	195	7.84E0
9/15/78	772.5	1.67E0
9/17/78	205	1.11E1
9/20/78	238	8.19E0
9/21/78	35	2.90E0
9/22/78	40	3.70E1
9/23/78	562.5	5.00E-1
9/27/78	205	8.02E0
10/2/78	238	2.13E0
10/2/78	205	4.80E0
10/4/78	205	9.22E0
10/6/78	205	8.88E0
10/8/78	205	1.72E1
10/9/78	1035	4.91E0
10/11/78	205	6.29E0
10/12/78	205	6.05E0
10/13/78	205	5.11E0
10/14/78	1.28	1.19E3
10/16/78	205	3.12E0
10/16/78	532.5	1.02E0
10/18/78	205	8.89E0
10/23/78	205	1.53E1
10/25/78	15	1.10E1
10/25/78	70	1.83E2
10/26/78	205	1.17E1
10/28/78	885	2.80E0
10/29/78	205	9.51E0
11/1/78	105	1.63E1
11/1/78	38	7.79E-4
11/3/78	205	4.48E0
11/5/78	205	4.64E0
11/7/78	238	6.89E0
11/8/78	205	5.76E0
11/11/78	205	5.34E0
11/13/78	990	2.18E0
11/16/78	238	2.25E-1
11/16/78	690	6.42E-1
11/17/78	205	6.86E0
11/17/78	7.5	4.76E0
11/20/78	205	3.59E0
11/22/78	205	4.76E0
11/24/78	238	9.64E0
11/24/78	205	5.73E0
11/27/78	205	2.18E1
11/29/78	205	3.99E0
11/29/78	585	4.20E-1
11/30/78	205	3.98E0
12/4/78	600	1.00E0
12/4/78	238	9.78E0
12/5/78	660	5.31E-1
12/5/78	189	1.11E-3

<u>DATE</u>	<u>CUBIC FT.</u>	<u># OF CURIES</u>
12/5/78	238	1.49E0
12/5/78	80	7.25E-4
12/7/78	205	3.06E0
12/7/78	772.5	8.32E-1
12/8/78	10	1.98E1
12/11/78	205	4.06E0
12/12/78	1.28	1.19E3
12/14/78	205	2.12E1
12/15/78	0.64	5.40E1
12/15/78	135.5	8.50E-1
12/17/78	205	5.68E0
12/22/78	525	8.20E-1
12/27/78	205	5.36E0
12/27/78	205	7.22E0
12/29/78	1140	4.17E0
12/29/78	205	7.58E0
Totals are for last six months of 1978	29,807.62	5,182.88

ATTACHMENT 2

RADIOACTIVE EFFLUENT RELEASES
LIQUID RELEASES

RAIIOACTIVELY RELEASED RELEASES

YEAR 1973

1. LIQUID RELEASES		UNITS	JUNE	AUGUST	SEPTEMBER	SUB-TOTAL
1. GROSS RADIIVITY						
A.	TOTAL RELEASE	CURIES	5.57E-01	1.05E+00	5.35E-01	2.14E+00
B.	AVERAGE CONCENTRATION RELEASED	UCI/ML	5.59E-03	1.39E-03	1.63E-03	1.81E-03
C.	MAXIMUM CONCENTRATION RELEASED	UCI/ML	2.52E-07	5.57E-07	1.93E-07	3.12E-07
2. TRITIUM						
A.	TOTAL RELEASE	CURIES	1.03E+02	3.13E+01	9.47E+01	2.77E+02
B.	AVERAGE CONCENTRATION RELEASED	UCI/ML	1.05E-05	1.37E-05	2.57E-05	2.35E-05
3. DISSOLVED NOBLE GASES						
A.	TOTAL RELEASE	CURIES	1.24E+00	2.39E+00	8.39E-01	4.47E+00
B.	AVERAGE CONCENTRATION RELEASED	UCI/ML	1.27E-07	3.16E-03	2.55E-03	3.73E-03
4. GROSS ALPHA RADIIVITY						
A.	TOTAL RELEASE	CURIES	0.	0.	0.	0.
B.	AVERAGE CONCENTRATION RELEASED	UCI/ML	0.	0.	0.	0.
5. VOLUME OF LIQUID WASTE TO DISCHARGE CANAL						
		LITERS	8.19E+06	6.99E+06	1.02E+07	2.54E+07
6. VOLUME OF DILUTION WATER						
		LITERS	9.79E+09	7.57E+10	3.29E+10	1.13E+11
7. ISOTOPES RELEASED						
		CURIES				
	BA-LA-140		2.98E-03	3.54E-03	5.64E-04	1.02E-02
	SR-89		3.77E-03	3.08E-03	8.50E-03	1.53E-02
	I-131		3.36E-02	1.73E-01	4.09E-02	2.52E-01
	I-133		5.13E-03	6.23E-03	1.97E-03	1.33E-02
	XE-133		1.05E+00	2.14E+00	6.72E-01	3.87E+00
	XE-135		1.09E-02	3.22E-02	1.11E-02	5.42E-02
	CS-137		2.30E-02	6.15E-02	4.73E-02	1.22E-01
	CS-134		1.34E-02	5.23E-02	2.70E-02	9.23E-02
	CO-60		5.35E-02	7.92E-02	3.43E-02	1.67E-01
	CO-58		3.33E-01	4.83E-01	3.29E-01	1.14E+00
	CR-51		1.41E-02	4.84E-02	7.19E-03	5.95E-02
	4N-54		7.76E-03	3.85E-03	4.88E-03	2.15E-02
	KR-87		0.	0.	0.	0.
	ZR-97		4.77E-04	9.95E-05	9.37E-07	5.77E-04
	NB-97		2.44E-02	2.13E-02	2.78E-03	4.85E-02
	XE-133M		8.75E-03	1.95E-02	9.46E-03	3.77E-02
	I-132		4.49E-04	0.	0.	4.49E-04
	CS-135		2.79E-04	2.50E-03	4.21E-04	3.29E-03
	KR-85A		2.01E-04	8.26E-04	7.42E-05	1.10E-03
	KR-88		9.42E-05	3.03E-03	7.10E-03	1.32E-02
	ZN-65		8.75E-05	9.97E-05	0.	1.87E-04
	SR-90		2.29E-04	3.01E-04	1.13E-03	1.65E-03
	SR-92		5.41E-05	2.50E-03	5.41E-04	3.10E-03
	CS-144		3.31E-04	7.27E-04	1.20E-03	2.31E-03
	MN-56		1.09E-04	0.	0.	1.09E-04
	MO-99		0.	3.22E-03	1.75E-04	3.43E-03
	SB-122		4.17E-04	1.92E-03	0.	2.34E-03
	AG-110A		1.29E-02	9.17E-03	2.04E-03	2.41E-02
	BA-139		4.94E-05	4.66E-05	0.	9.60E-05
	NB-95		3.50E-03	5.49E-03	1.34E-03	1.03E-02
	FE-59		2.35E-03	1.88E-03	1.99E-04	4.93E-03
	SB-124		0.	3.62E-04	0.	3.62E-04
	I-135		4.93E-04	1.75E-03	1.77E-03	4.00E-03
	A-187		7.34E-04	1.53E-04	4.44E-05	9.87E-04
	CS-135M		0.	0.	0.	0.
	XE-131M		1.22E-02	4.26E-02	3.82E-03	5.35E-02
	ZR-95		1.21E-03	3.00E-03	4.79E-04	4.69E-03
	NP-239		2.73E-04	3.29E-05	3.02E-05	3.37E-04
	CO-57		7.39E-04	1.74E-03	9.97E-04	3.53E-03
	IC-99M		4.92E-04	7.07E-03	1.20E-04	7.63E-03
	NA-24		3.09E-05	0.	9.83E-06	4.07E-05
	CO-115M		0.	0.	0.	0.
	Y-92		1.33E-04	3.34E-03	0.	3.43E-03
	IN-115M		0.	0.	0.	0.
	CO-115		5.37E-05	1.75E-04	9.51E-05	3.24E-04
	CE-134		0.	0.	0.	0.
	AR-41		2.40E-05	4.79E-05	1.45E-05	8.66E-05
	I-134		0.	3.05E-03	3.12E-03	6.17E-03
	RS-88		1.02E-02	5.04E-03	1.23E-02	2.76E-02
	SH-125A		0.	0.	0.	0.
	CS-133		0.	7.48E-05	0.	7.48E-05
	KR-85		1.54E-01	1.48E-01	1.30E-01	4.33E-01
	RU-103		3.57E-05	8.66E-04	1.54E-05	9.19E-04
	SB-125		4.43E-04	3.49E-04	3.67E-05	8.79E-04
	SN-125		0.	0.	0.	0.
	XE-133		0.	0.	0.	0.
	SN-123M		0.	0.	0.	0.
	F-18		0.	0.	0.	0.
	AG-102M		0.	0.	0.	0.
	XE-135A		1.10E-04	2.24E-04	0.	3.34E-04
	SR-91		0.	0.	4.53E-03	4.53E-03
	NI-95		9.42E-05	0.	0.	9.42E-05
	Y-83		0.	0.	0.	0.
	CO-109		4.42E-04	3.04E-03	0.	3.50E-03
	PR-144		2.96E-04	2.50E-03	0.	2.80E-03
	RU-106		5.30E-05	4.79E-02	3.74E-03	5.08E-02
	GE-141		0.	0.	0.	0.
8. PERCENT OF THEORETICAL SPECIFICATION LIMIT (15 CI) FOR TOTAL ACTIVITY RELEASED						
			3.71E+01	7.01E+00	3.54E+00	1.43E+01

	UNITS	JANUARY	NOVEMBER	DECEMBER	SUB-TOTAL
1. GROSS BETA RADIOACTIVITY					
A. TOTAL RELEASE	CURIES	2.38E-01	1.96E-01	1.76E-01	6.10E-01
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	2.46E-09	8.47E-09	3.45E-09	4.16E-09
C. MAXIMUM CONCENTRATION RELEASED	UCI/ML	1.14E-07	1.37E-07	7.23E-08	1.22E-07
2. TRITIUM					
A. TOTAL RELEASE	CURIES	9.45E+01	1.34E+02	9.73E+01	3.26E+02
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	9.75E-07	2.34E-06	1.92E-06	1.67E-06
3. DISSOLVED GASES					
A. TOTAL RELEASE	CURIES	4.19E-01	6.70E-01	4.50E-01	1.54E+00
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	4.33E-09	1.42E-08	8.35E-09	7.90E-09
4. GROSS ALPHA RADIOACTIVITY					
A. TOTAL RELEASE	CURIES	0.	0.	0.	0.
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	0.	0.	0.	0.
5. VOLUME OF LIQUID WASTE TO DISCHARGE CANAL					
	LITERS	7.77E+06	7.87E+06	9.01E+06	2.47E+07
6. VOLUME OF DILUTION WATER					
	LITERS	9.59E+10	4.71E+10	5.08E+10	1.95E+11
7. ISOTOPES RELEASED					
	CURIES				
BA-LA-140		5.71E-04	2.43E-03	6.70E-04	3.67E-03
SR-89		1.17E-03	4.30E-03	5.13E-03	1.11E-02
I-131		3.32E-02	7.46E-02	2.25E-02	1.35E-01
I-133		2.94E-03	3.70E-03	1.13E-03	7.77E-03
XE-133		3.18E-01	5.37E-01	3.73E-01	1.23E+00
XE-135		1.57E-02	4.97E-03	1.19E-02	3.25E-02
CS-137		2.31E-02	9.94E-02	4.08E-02	1.66E-01
CS-134		1.74E-02	6.35E-02	2.53E-02	1.06E-01
CO-60		1.39E-02	1.01E-02	3.59E-03	2.76E-02
CO-58		9.90E-02	1.04E-01	5.14E-02	2.54E-01
CR-51		5.75E-03	4.92E-03	3.49E-03	1.42E-02
MN-54		1.57E-03	1.74E-03	6.27E-04	3.93E-03
KR-87		0.	0.	0.	0.
ZR-97		0.	0.	0.	0.
NB-97		3.52E-03	1.43E-03	1.58E-03	6.63E-03
XE-133M		5.92E-03	5.00E-03	5.51E-03	1.55E-02
I-132		0.	0.	0.	0.
CS-136		4.79E-04	1.60E-03	1.95E-04	2.27E-03
KR-85M		6.26E-05	2.35E-05	1.55E-04	2.41E-04
KR-88		2.57E-03	0.	0.	2.57E-03
ZN-65		0.	3.72E-06	4.95E-06	8.67E-06
SR-90		2.25E-04	4.33E-04	4.86E-04	1.14E-03
SR-92		3.90E-04	4.50E-04	4.17E-04	1.26E-03
CE-144		5.70E-04	1.45E-04	1.12E-03	1.64E-03
MN-56		0.	0.	0.	0.
MO-99		3.39E-04	1.30E-05	1.35E-05	4.16E-04
SB-122		0.	0.	0.	0.
AG-110M		1.39E-03	1.87E-03	1.56E-03	5.31E-03
BA-139		0.	0.	0.	0.
NB-95		7.30E-04	4.83E-04	4.39E-04	1.65E-03
FE-59		2.08E-04	6.43E-05	3.95E-06	2.77E-04
SB-124		0.	2.61E-05	0.	2.61E-05
I-135		1.49E-04	2.03E-03	1.66E-03	3.89E-03
W-187		9.06E-05	2.43E-05	1.24E-05	1.27E-04
CS-135M		0.	0.	0.	0.
XE-131M		3.45E-03	1.29E-02	3.77E-03	2.91E-02
ZR-95		2.21E-04	1.71E-04	7.67E-05	5.39E-04
NP-239		6.36E-05	9.75E-06	1.24E-05	8.53E-05
CO-57		1.50E-04	1.97E-04	8.37E-06	4.31E-04
TC-99M		3.68E-04	1.06E-03	3.44E-05	1.47E-03
NA-24		1.02E-05	1.55E-05	0.	2.57E-05
CO-115M		0.	0.	0.	0.
Y-92		0.	0.	0.	0.
IN-115M		0.	0.	0.	0.
CD-115		5.27E-05	7.35E-06	0.	6.01E-05
CE-134		0.	0.	0.	0.
AR-41		5.09E-05	1.51E-05	8.12E-07	6.63E-05
I-134		1.50E-03	0.	0.	1.50E-03
RB-88		1.73E-02	1.68E-02	1.23E-02	4.64E-02
SN-125A		0.	0.	0.	0.
CS-138		1.39E-05	0.	5.54E-06	6.93E-06
KR-80		7.44E-02	1.10E-01	5.55E-02	2.40E-01
RU-103		4.68E-05	0.	0.	4.68E-05
SB-125		9.16E-05	3.19E-05	2.38E-04	3.62E-04
SN-125		0.	0.	0.	0.
XE-138		0.	0.	3.92E-05	3.92E-05
SN-123M		0.	0.	0.	0.
F-18		0.	0.	0.	0.
AG-108M		0.	0.	0.	0.
XE-135A		0.	0.	0.	0.
SR-91		0.	0.	0.	0.
NI-65		5.76E-05	6.97E-06	0.	5.76E-05
Y-93		0.	0.	2.36E-05	2.36E-05
CD-109		0.	0.	0.	0.
PR-144		0.	0.	0.	0.
RU-106		0.	0.	0.	0.
CE-141		9.12E-04	7.56E-04	6.44E-04	2.31E-03
RB-86		0.	0.	0.	0.
SB-126		0.	0.	0.	0.
8. PERCENT OF TECHNICAL SPECIFICATIONS MET (15 GD) FOR TOTAL ACTIVITY RELEASED					
		1.52E+01	2.64E+00	1.17E+00	5.00E+00

UNIT	UNIT	UNIT	GRAND TOTAL	
1. GROSS BETA RADIOACTIVITY				
A. TOTAL RELEASE	CURIES	2.14E+00	8.10E+01	12.95E+00
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	1.31E-03	4.15E-02	7.43E-02
C. MAXIMUM CONCENTRATION RELEASED	UCI/ML	3.12E-07	1.22E-07	2.13E-07
2. TRITIUM				
A. TOTAL RELEASE	CURIES	2.79E+02	3.26E+02	6.04E+02
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	2.35E-05	1.57E-06	1.93E-06
3. DISSOLVED NITROGEN GASES				
A. TOTAL RELEASE	CURIES	4.47E+00	1.54E+00	6.01E+00
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	3.73E-03	7.90E-02	1.92E-03
4. GROSS ALPHA RADIOACTIVITY				
A. TOTAL RELEASE	CURIES	0.	0.	0.
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	0.	0.	0.
5. VOLUME OF LIQUID WASTE DISCHARGE CANAL				
	LITERS	2.54E+07	2.47E+07	5.01E+07
6. VOLUME OF DILUTION WATER				
	LITERS	1.13E+11	1.95E+11	3.13E+11
7. ISOTOPES RELEASED				
	CURIES			
BA-LA-140		1.02E-02	3.67E-03	1.39E-02
SR-89		1.53E-02	1.11E-02	2.65E-02
I-131		2.52E-01	1.35E-01	3.87E-01
I-133		1.33E-02	7.77E-03	2.11E-02
XE-133		3.87E+00	1.23E+00	5.10E+00
XE-135		5.42E-02	3.25E-02	8.67E-02
CS-137		1.32E-01	1.58E-01	3.01E-01
CS-134		9.28E-02	1.06E-01	1.99E-01
CO-60		1.67E-01	2.76E-02	1.95E-01
CO-58		1.14E+00	2.54E-01	1.40E+00
CR-51		6.95E-02	1.42E-02	8.37E-02
MN-54		2.15E-02	3.93E-03	2.54E-02
KR-87		0.	0.	0.
ZR-97		5.77E-04	0.	5.77E-04
NB-97		4.85E-02	6.53E-03	5.51E-02
XE-133M		3.77E-02	1.55E-02	5.32E-02
I-132		4.49E-04	0.	4.49E-04
CS-136		3.20E-03	2.27E-03	5.47E-03
KR-85M		1.10E-03	2.41E-04	1.34E-03
KR-88		1.52E-02	2.57E-03	1.78E-02
ZN-65		1.87E-04	8.67E-06	1.96E-04
SR-90		1.65E-03	1.14E-03	2.80E-03
SR-92		3.10E-03	1.26E-03	4.36E-03
CE-144		2.31E-03	1.84E-03	4.15E-03
MN-56		1.02E-04	0.	1.02E-04
MO-99		3.40E-03	4.16E-04	3.81E-03
SB-122		2.34E-03	0.	2.34E-03
AG-110M		2.41E-02	5.31E-03	2.94E-02
BA-139		9.60E-05	0.	9.60E-05
NB-95		1.03E-02	1.55E-03	1.20E-02
FE-59		4.93E-03	2.77E-04	5.21E-03
SB-124		3.62E-04	2.41E-05	3.89E-04
I-135		4.00E-03	3.59E-03	7.59E-03
W-187		9.87E-04	1.27E-04	1.11E-03
CS-135M		0.	0.	0.
XE-131M		6.36E-02	2.01E-02	8.38E-02
ZR-95		4.59E-03	5.39E-04	5.23E-03
NP-239		3.37E-04	8.58E-05	4.22E-04
CO-57		3.53E-03	4.31E-04	3.96E-03
TC-99M		7.68E-03	1.47E-03	9.15E-03
NA-24		4.07E-05	2.57E-05	6.64E-05
CD-113M		0.	0.	0.
Y-92		3.48E-03	0.	3.48E-03
IN-115M		0.	0.	0.
CD-115		3.24E-04	6.01E-05	3.84E-04
CE-134		0.	0.	0.
AR-41		8.55E-05	5.52E-05	1.53E-04
I-134		6.17E-03	1.50E-03	7.67E-03
RO-08		2.76E-02	4.54E-02	7.40E-02
SN-125M		0.	0.	0.
CS-133		7.48E-05	5.93E-05	1.44E-04
KR-85		4.33E-01	2.40E-01	6.73E-01
RU-103		9.19E-04	4.58E-05	9.65E-04
SR-125		8.79E-04	3.62E-04	1.24E-03
SN-125		0.	0.	0.
XE-133		0.	3.92E-05	3.92E-05
SN-123M		0.	0.	0.
F-18		0.	0.	0.
AG-103M		0.	0.	0.
XE-135M		3.34E-04	0.	3.34E-04
SR-71		4.58E-08	5.76E-05	5.76E-05
NI-65		9.42E-05	2.35E-05	1.19E-04
Y-93		0.	0.	0.
CD-107		3.50E-03	0.	3.50E-03
PR-144		2.80E-03	0.	2.80E-03
RU-105		5.99E-02	2.31E-03	6.31E-02
CE-141		0.	0.	0.
DS-13		0.	0.	0.
SB-125		0.	0.	0.

8. PERCENT OF ANNUAL DISCHARGING
 LIMIT (U.S. GOVERNMENT REGULATORY COMMISSION)

	UNIT	1ST QUARTER	2ND QUARTER	3RD QUARTER	4TH QUARTER	TOTAL
1. GROSS RADIOACTIVITY						
A. TOTAL RELEASE	CURIES	1.24E+00	2.52E+00	2.14E+00	8.10E+01	6.51E+00
B. AVERAGE CONCENTRATION RELEASED	UCI/AL	2.97E-02	7.46E-02	1.81E-02	4.15E-02	6.51E-02
C. MAXIMUM CONCENTRATION RELEASED	UCI/AL	1.08E-07	2.44E-07	3.12E-07	1.22E-07	2.94E-07
2. TRITIUM						
A. TOTAL RELEASE	CURIES	3.24E+02	2.49E+02	2.79E+02	3.25E+02	1.18E+03
B. AVERAGE CONCENTRATION RELEASED	UCI/AL	9.24E-07	7.40E-07	2.35E-06	1.67E-05	1.15E-06
3. DISSOLVED NOBLE GASES						
A. TOTAL RELEASE	CURIES	8.52E-01	3.01E+00	4.47E+00	1.54E+00	9.88E+00
B. AVERAGE CONCENTRATION RELEASED	UCI/AL	2.43E-09	8.94E-09	3.78E-08	7.90E-09	9.87E-09
4. GROSS ALPHA RADIOACTIVITY						
A. TOTAL RELEASE	CURIES	0.	0.	0.	0.	0.
B. AVERAGE CONCENTRATION RELEASED	UCI/AL	0.	0.	0.	0.	0.
5. VOLUME OF LIQUID WASTE TO DISCHARGE CANAL						
	LITERS	3.55E+07	3.28E+07	2.54E+07	2.47E+07	1.18E+08
6. VOLUME OF DILUTION WATER						
	LITERS	3.57E+11	3.37E+11	1.18E+11	1.95E+11	1.00E+12
7. ISOTOPES RELEASED						
	CURIES					
BA-LA-140		3.42E-03	1.38E-02	1.02E-02	3.67E-03	3.11E-02
SR-89		2.91E-02	3.18E-02	1.53E-02	1.11E-02	8.73E-02
I-131		2.56E-01	3.18E-01	2.52E-01	1.35E-01	9.92E-01
I-133		1.12E-02	1.34E-02	1.33E-02	7.77E-03	4.64E-02
XE-133		5.95E-01	2.40E+00	3.87E+00	1.23E+01	8.09E+00
XE-135		1.10E-02	2.97E-02	5.42E-02	3.25E-02	1.27E-01
CS-137		2.39E-01	1.70E-01	1.32E-01	1.68E-01	5.40E-01
CS-134		1.29E-01	5.93E-02	9.28E-02	1.05E-01	3.87E-01
CD-60		9.29E-02	1.30E-01	1.67E-01	2.76E-02	4.63E-01
CO-58		1.39E-01	1.35E+00	1.14E+00	2.54E-01	2.89E+00
CR-51		5.95E-03	1.13E-01	6.96E-02	1.42E-02	2.03E-01
MN-54		1.54E-02	2.50E-02	2.15E-02	3.93E-03	6.58E-02
KR-87		3.59E-05	1.34E-05	0.	0.	5.43E-05
ZR-97		2.29E-04	2.21E-03	5.77E-04	0.	3.02E-03
NB-97		3.10E-02	1.46E-01	4.85E-02	5.63E-03	2.32E-01
XE-133M		2.11E-03	1.97E-02	3.77E-02	1.55E-02	7.50E-02
I-132		8.01E-07	0.	4.49E-04	0.	4.50E-04
CS-136		1.12E-03	4.75E-03	3.20E-03	2.27E-03	1.13E-02
KR-85M		2.04E-03	2.09E-04	1.10E-03	2.41E-04	3.59E-03
KR-88		3.90E-04	2.51E-04	1.52E-02	2.57E-03	1.84E-02
ZN-65		4.95E-05	1.39E-03	1.87E-04	8.67E-06	1.64E-03
SR-90		1.73E-03	1.37E-03	1.66E-03	1.14E-03	6.40E-03
SR-92		1.67E-04	6.32E-05	3.10E-03	1.26E-03	4.55E-03
CE-144		2.68E-03	6.45E-03	2.31E-03	1.84E-03	1.33E-02
MN-56		0.	0.	1.09E-04	0.	1.09E-04
MO-99		5.53E-04	0.	3.40E-03	4.16E-04	4.27E-03
SB-122		0.	0.	2.34E-03	0.	2.34E-03
AG-110M		2.07E-02	5.13E-02	2.41E-02	5.31E-03	1.01E-01
BA-139		6.45E-04	3.32E-03	9.60E-05	0.	3.42E-03
NB-95		4.81E-03	1.76E-02	1.03E-02	1.65E-03	3.44E-02
FE-59		5.36E-04	4.30E-03	4.93E-03	2.77E-04	1.05E-02
SB-124		0.	0.	3.62E-04	2.61E-05	3.89E-04
I-135		7.89E-03	7.35E-04	4.00E-03	3.89E-03	1.65E-02
A-187		5.16E-04	1.97E-03	9.87E-04	0.	3.60E-03
CS-135M		0.	0.	0.	0.	0.
XE-131M		1.47E-02	6.43E-02	6.36E-02	2.01E-02	1.63E-01
ZR-95		1.39E-03	1.29E-02	4.69E-03	5.39E-04	1.95E-02
NP-239		1.70E-03	1.11E-03	3.37E-04	8.58E-05	3.23E-03
CD-57		3.42E-04	2.72E-03	3.53E-03	4.31E-04	7.02E-03
TC-99M		1.85E-04	2.31E-03	7.48E-03	1.47E-03	1.21E-02
NA-24		3.86E-05	4.75E-05	4.07E-05	2.57E-05	1.53E-04
CD-115M		0.	0.	0.	0.	0.
Y-92		1.37E-03	5.56E-04	3.48E-03	0.	5.90E-03
IN-115M		7.06E-05	1.44E-05	0.	0.	8.70E-05
CD-115		6.62E-04	2.65E-04	3.24E-04	6.01E-05	1.31E-03
CE-134		0.	0.	0.	0.	0.
AR-41		4.12E-05	3.80E-04	8.66E-05	5.68E-05	5.74E-04
I-134		1.31E-06	0.	6.17E-03	1.50E-03	7.67E-03
RB-86		7.23E-03	3.45E-02	2.75E-02	4.64E-02	1.15E-01
SN-125M		2.15E-05	0.	0.	0.	2.15E-05
CS-136		8.40E-06	5.50E-03	7.48E-05	5.93E-05	5.65E-03
KR-85		2.25E-01	4.75E-01	4.33E-01	2.40E-01	1.39E+00
RU-103		1.39E-04	5.63E-03	9.19E-04	4.68E-05	6.74E-03
SB-125		1.35E-03	1.38E-03	8.79E-04	3.62E-04	3.96E-03
SN-125		1.42E-03	0.	0.	0.	1.42E-03
XE-136		1.35E-05	2.37E-03	0.	3.92E-05	2.42E-03
SN-123M		0.	0.	0.	0.	0.
F-18		0.	0.	0.	0.	0.
A7-103M		6.00E-05	2.92E-05	0.	0.	3.92E-05
XE-135M		0.	0.	3.34E-04	0.	3.34E-04
SR-91		8.03E-05	6.42E-05	4.58E-05	5.76E-05	2.02E-04
NI-65		7.03E-05	3.66E-04	9.42E-05	2.36E-05	5.32E-04
Y-86		0.	0.	0.	0.	0.
CU-102		0.	0.	3.50E-03	0.	3.50E-03
PR-144		0.	0.	2.80E-03	0.	2.80E-03
RU-106		0.	0.	8.08E-02	2.31E-03	5.31E-02
CR-141		0.	0.	0.	0.	0.
RB-88		0.	0.	0.	0.	0.
SB-125		0.	0.	0.	0.	0.
8. PERCENT OF TECHNICAL SPECIFICATION LIMIT (C9 TO E9) TOTAL ACTIVITY RELEASED						
		5.21E-01	1.50E-01	1.44E-01	6.00E-02	4.48E-01

ATTACHMENT 3

RADIOACTIVE EFFLUENT RELEASES
AIRBORNE RELEASES

II. AIRBORNE RELEASES

	UNITS	JULY	AUGUST	NUMBER	RE-EVAL
1. TOTAL NOBLE GASES	CURIES	1.63E+01	1.42E+04	2.04E+03	1.99E+04
2. TOTAL HALOGENS	CURIES	7.08E-03	2.44E-02	5.35E-03	1.63E-02
3. TOTAL PARTICULATE GROSS BETA-TAMIA	CURIES	9.95E-04	1.14E-02	1.87E-02	1.11E-02
4. TOTAL TRITIUM	CURIES	1.82E-01	2.31E+00	1.96E+00	4.45E+00
5. TOTAL PARTICULATE GROSS ALPHA ACTIVITY	CURIES	0.	0.	0.	0.
6. MAXIMUM NOBLE GAS RELEASE RATE	UCI/SEC	1.60E+03	1.60E+03	1.60E+03	1.60E+03
7. PERCENT OF APPLICABLE LIMIT FOR:					
A. NOBLE GASES	%	7.12E+00	2.78E+01	4.00E+00	3.90E+01
B. HALOGENS	%	1.86E+00	6.41E+00	1.41E+00	2.63E+00
C. PARTICULATES	%	8.95E-02	1.74E+00	1.70E+00	2.83E+00

d. ISOTOPES RELEASED

	UNITS	JULY	AUGUST	NUMBER	RE-EVAL
PARTICULATES					
CS-137		1.86E-06	5.09E-06	6.58E-06	1.35E-05
BA-LA-140		3.33E-05	5.13E-05	1.41E-05	2.25E-05
SR-90		1.31E-10	1.30E-09	1.51E-09	2.95E-09
CS-134		2.36E-06	4.50E-06	3.26E-06	1.02E-05
SR-89		2.99E-10	2.92E-09	3.40E-09	5.62E-09
CD-53		6.33E-05	1.26E-05	1.45E-05	9.04E-05
CS-136		2.41E-07	9.64E-07	2.15E-06	1.23E-06
CS-138		2.92E-06	6.47E-05	3.43E-05	1.02E-04
MN-54		3.95E-03	9.18E-07	5.82E-08	1.02E-06
MO-99		3.10E-02	9.31E-06	3.44E-05	4.43E-05
NB-95		3.26E-09	6.32E-07	1.95E-07	8.35E-07
CD-50		6.21E-06	1.40E-06	4.31E-06	5.77E-06
NA-24		2.36E-09	1.47E-03	5.39E-09	2.29E-03
AC-110M		4.01E-06	1.86E-07	1.47E-08	4.21E-06
CR-51		1.51E-05	2.68E-05	3.71E-03	3.75E-03
SB-124		0.	1.14E-08	0.	1.14E-08
TC-99M		7.30E-09	5.92E-08	2.84E-08	9.43E-08
AG-108M		1.97E-08	5.09E-08	6.09E-07	5.71E-07
RB-83		3.38E-04	1.10E-02	1.30E-02	2.49E-02
NP-239		1.12E-05	7.50E-05	1.71E-03	1.73E-03
CD-115		5.24E-06	3.87E-06	3.12E-06	1.22E-05
CE-144		1.09E-05	1.78E-05	3.38E-05	6.25E-05
SR-91		2.23E-06	5.27E-06	3.39E-06	1.09E-05
Y-91M		0.	2.30E-09	0.	2.30E-09
RU-103		2.11E-09	5.95E-07	8.46E-09	6.24E-07
MN-56		9.86E-02	5.66E-07	0.	5.76E-07
BA-139		1.07E-07	5.97E-06	0.	5.93E-06
SN-125M		0.	0.	0.	0.
SR-92		3.99E-09	3.74E-06	5.53E-08	8.81E-06
CO-57		6.40E-09	3.90E-07	2.41E-08	4.20E-07
FE-59		2.37E-07	1.32E-06	1.10E-06	2.65E-06
ZR-95		2.77E-06	1.93E-06	4.66E-06	4.75E-06
NB-97		1.97E-08	7.90E-08	1.04E-06	1.14E-06
ZR-97		4.47E-09	2.58E-07	7.23E-09	2.70E-07
Y-92		8.73E-06	1.49E-05	0.	2.36E-05
SB-125		6.92E-06	3.38E-06	4.18E-06	1.45E-05
ZN-65		1.13E-06	1.11E-06	1.50E-06	3.79E-06
NI-63		1.81E-06	5.15E-06	9.27E-06	1.62E-05
IN-115M		1.47E-06	1.27E-06	0.	2.75E-06
NA-22		2.18E-09	3.80E-08	5.52E-09	4.58E-08
NI-65		6.55E-07	3.04E-06	3.13E-06	6.83E-06
PR-144		0.	1.13E-04	0.	1.13E-04
CD-109		0.	5.19E-05	0.	5.19E-05
CE-141		0.	3.40E-06	0.	3.40E-06
RU-106		0.	1.58E-05	5.64E-05	7.22E-05
HALOGENS					
I-131		6.30E-03	2.22E-02	4.24E-03	3.27E-02
I-133		7.28E-04	2.06E-03	2.66E-04	3.06E-03
I-135		4.54E-05	1.12E-04	5.56E-05	2.13E-04
I-132		2.49E-06	1.94E-05	7.92E-04	9.14E-04
I-134		9.91E-03	7.76E-06	7.17E-07	8.53E-06
F-18		2.42E-03	0.	0.	2.42E-03
BR-84		0.	1.54E-05	0.	1.56E-05
GASES					
KR-85		1.67E+01	2.20E+01	5.12E+01	8.99E+01
XE-133		3.54E+03	1.39E+04	1.87E+03	1.93E+04
KR-84		2.95E-01	3.83E+00	2.43E+00	6.56E+00
KR-87		1.45E-02	2.49E-01	1.09E-01	3.72E-01
KR-85M		6.69E-01	4.39E+00	4.70E+00	2.76E+00
XE-135		2.03E-04	0.	2.29E+00	7.95E+00
XE-135M		0.	2.93E-03	0.	7.93E-03
XE-135		3.21E+01	1.50E+02	5.42E+01	2.36E+02
AR-41		1.87E-02	3.44E-01	2.09E+00	2.46E+00
XF-133M		3.91E+01	1.34E+02	1.31E+01	1.77E+02
XE-131M		9.24E+00	1.05E+01	3.83E+01	5.09E+01
XE-137		0.	0.	1.13E-01	1.15E-01

11. ALBUQUERQUE LEA 111	UNITS	ACTIVITY	NOBLE GASES	HALOGENS	SUB-TOTAL
1. TOTAL NOBLE GASES	CURIES	2.13E+01	3.94E+01	1.02E+03	7.21E+01
2. TOTAL HALOGENS	CURIES	4.15E+01	8.55E+03	1.24E+02	2.52E+02
3. TOTAL PARTICULATE GROSS BETA-GAMMA	CURIES	1.91E+03	3.52E+03	1.49E+03	6.92E+03
4. TOTAL TRITIUM	CURIES	2.13E+01	2.23E+00	2.35E+01	4.75E+01
5. TOTAL PARTICULATE GROSS ALPHA ACTIVITY	CURIES	0.	0.	0.	0.
6. MAXIMUM NOBLE GAS RELEASE RATE	UCI/SEC	1.60E+03	1.60E+03	1.60E+03	1.60E+03
7. PERCENT OF APPLICABLE LIMIT FOR:					
A. NOBLE GASES	%	4.28E+00	7.72E+00	2.13E+00	1.41E+01
B. HALOGENS	%	1.09E+00	2.28E+00	3.27E+00	6.64E+00
C. PARTICULATES	%	1.55E-01	3.27E-01	1.35E-01	5.27E-01
d. ISOTOPES RELEASED	CURIES				
PARTICULATES					
CS-137		1.32E-05	1.94E-05	5.95E-05	9.22E-05
BA-LA-140		2.20E-05	1.40E-05	6.55E-06	4.25E-05
SR-90		2.91E-04	2.56E-09	3.15E-09	3.67E-09
CS-134		3.63E-07	7.25E-06	2.02E-05	2.73E-05
SR-91		2.74E-03	2.43E-06	2.99E-03	3.15E-03
CO-58		2.57E-05	1.59E-05	2.45E-05	5.62E-05
CS-135		1.32E-06	2.74E-07	2.64E-07	1.85E-06
CS-138		1.64E-05	3.31E-05	3.15E-05	3.10E-05
MN-54		1.33E-08	1.08E-08	9.51E-06	9.54E-06
MO-99		4.17E-05	3.75E-05	6.97E-05	1.49E-04
NB-95		1.24E-09	2.10E-08	2.40E-08	4.62E-03
CO-60		9.04E-06	4.91E-06	1.14E-05	2.53E-05
NA-24		0.	1.76E-08	1.14E-08	2.90E-03
AG-110M		5.37E-03	1.18E-06	6.44E-07	1.89E-06
CR-51		5.58E-05	4.76E-05	1.44E-04	2.47E-04
SB-124		0.	0.	0.	0.
IC-99M		9.79E-10	7.49E-09	1.28E-03	2.13E-03
AG-103M		1.23E-06	9.28E-09	1.30E-03	1.26E-06
RB-83		1.45E-03	3.31E-03	8.05E-04	5.57E-03
NP-239		5.89E-06	3.72E-07	1.44E-07	6.40E-06
CU-115		7.31E-06	5.49E-07	1.11E-06	3.97E-06
CE-144		4.05E-05	3.47E-05	6.35E-05	1.39E-04
SR-91		1.14E-05	7.54E-06	1.80E-05	3.71E-05
Y-91M		0.	0.	0.	0.
RU-103		0.	4.51E-09	1.41E-07	1.45E-07
MN-56		9.73E-10	1.05E-08	1.81E-03	2.96E-03
BA-139		0.	0.	0.	0.
SN-125M		0.	0.	0.	0.
SR-92		3.13E-06	1.05E-07	1.17E-07	3.35E-06
CO-57		8.49E-10	6.71E-09	1.25E-03	2.00E-03
FE-59		2.54E-06	1.09E-06	4.21E-08	2.59E-06
ZR-95		2.48E-06	2.21E-03	5.17E-03	2.55E-06
NB-97		1.23E-07	2.75E-08	1.56E-03	1.66E-07
ZR-97		5.36E-09	5.16E-09	1.42E-03	2.52E-03
Y-92		0.	0.	0.	0.
SB-125		6.30E-06	4.16E-05	2.05E-06	3.83E-06
ZN-65		1.72E-06	2.59E-08	4.92E-03	1.79E-06
W-187		1.39E-05	5.45E-06	5.30E-06	2.46E-05
IN-115M		0.	0.	0.	0.
NA-22		0.	1.16E-08	1.37E-08	2.53E-03
NI-65		1.37E-05	4.60E-06	6.64E-06	2.49E-05
PR-144		0.	0.	0.	0.
CD-109		0.	0.	0.	0.
CE-141		0.	0.	0.	0.
RU-106		6.40E-05	4.70E-05	2.10E-04	3.21E-04
HALOGENS					
I-131		3.78E-03	7.75E-03	9.12E-03	2.07E-02
I-133		2.41E-04	6.94E-04	2.05E-03	2.99E-03
I-135		8.44E-05	1.01E-04	1.02E-03	1.20E-03
I-132		4.52E-05	1.11E-04	1.53E-04	3.09E-04
I-134		2.17E-03	2.05E-07	9.45E-05	9.43E-05
F-18		0.	0.	0.	0.
BR-84		0.	0.	0.	0.
GASES					
KR-85		1.01E+02	3.20E+01	1.63E+00	1.35E+02
XE-133		1.94E+03	1.90E+03	1.04E+03	5.82E+03
KR-83		1.58E+00	1.02E+00	5.51E+00	8.15E+01
KR-87		8.74E+00	3.02E+01	4.90E+02	3.60E+01
KR-85M		8.20E+00	2.38E+00	3.26E+01	1.14E+01
XE-135		0.	0.	2.65E+02	2.65E+02
XE-135M		0.	2.94E+02	1.86E+01	2.29E+01
XE-135		7.59E+01	4.06E+01	2.29E+01	1.40E+02
AR-41		0.	2.00E+01	1.39E+01	3.42E+01
XE-137A		1.44E+01	2.26E+01	6.34E+00	4.33E+01
XE-137B		2.31E+00	3.37E+01	7.26E+00	4.37E+01
XE-137		0.	0.	1.93E+02	1.93E+02

11. AIRBORNE RELEASE	UNITY	1st QUARTER	4th QUARTER	SUB-TOTAL
1. TOTAL NOBLE GASES	CURIES	1.92E+04	7.21E+03	2.71E+04
2. TOTAL HALOGENS	CURIES	3.40E-02	2.82E-02	6.20E-02
3. TOTAL PARTICULATE GROSS BETA-GAMMA	CURIES	3.11E-02	6.90E-03	3.80E-02
4. TOTAL TRITIUM	CURIES	4.45E+00	4.75E+01	5.20E+01
5. TOTAL PARTICULATE GROSS ALPHA ACTIVITY	CURIES	0.	0.	0.
6. MAXIMUM NOBLE GAS RELEASE RATE	UCI/SEC	1.60E+03	1.60E+03	1.60E+03
7. PERCENT OF APPLICABLE LIMIT FOR:				
A. NOBLE GASES	%	3.92E+01	1.41E+01	5.31E+01
B. HALOGENS	%	9.63E+03	6.64E+00	1.63E+01
C. PARTICULATES	%	2.83E+00	6.27E-01	3.45E+00
8. ISOTOPES RELEASED	CURIES			
PARTICULATES				
CS-137		1.35E-05	9.22E-05	1.05E-04
SA-LA-140		2.25E-05	4.26E-05	6.51E-05
SR-90		2.95E-09	6.67E-09	1.16E-08
CS-134		1.02E-05	2.78E-05	3.80E-05
SP-39		6.62E-09	8.16E-08	8.82E-08
CO-58		9.04E-05	6.62E-05	1.57E-04
CS-136		1.23E-04	1.36E-04	3.09E-04
CS-138		1.02E-04	6.10E-05	1.83E-04
MY-54		1.02E-05	9.54E-06	1.06E-05
MO-99		4.43E-05	1.49E-04	1.93E-04
N3-95		8.35E-07	4.52E-08	8.62E-07
CO-60		5.77E-05	2.53E-05	3.11E-05
NA-24		2.29E-08	2.90E-08	5.19E-08
AG-110M		4.21E-06	1.38E-06	6.03E-06
CR-51		3.75E-03	2.47E-04	4.00E-03
SB-124		1.14E-08	0.	1.14E-08
TC-99M		9.48E-03	2.13E-08	1.16E-07
AG-103M		6.71E-07	1.26E-06	1.93E-06
R3-88		2.49E-02	5.57E-03	3.05E-02
NP-239		1.73E-03	6.40E-04	1.73E-03
CU-115		1.22E-05	6.97E-06	2.12E-05
CE-144		6.25E-05	1.39E-04	2.01E-04
SR-91		1.02E-05	3.71E-05	4.50E-05
Y-91M		2.30E-09	0.	2.30E-09
RJ-103		6.24E-07	1.45E-07	7.70E-07
MY-55		5.76E-07	2.95E-08	6.05E-07
BA-137		5.93E-05	0.	5.93E-05
SI-125M		0.	0.	0.
SR-92		8.81E-06	3.36E-06	1.22E-05
CU-57		4.20E-07	2.00E-08	4.40E-07
FE-59		2.65E-06	2.59E-06	5.24E-06
ZR-95		4.75E-04	2.56E-04	7.31E-04
N3-97		1.14E-06	1.66E-07	1.30E-06
ZR-97		2.70E-07	2.52E-08	2.95E-07
Y-92		2.36E-05	0.	2.35E-05
SB-125		1.45E-05	8.38E-06	2.34E-05
ZR-95		3.72E-06	1.79E-06	5.50E-06
4-137		1.62E-05	2.46E-05	4.08E-05
IN-115M		2.75E-06	0.	2.75E-06
NA-22		4.93E-04	2.53E-08	7.11E-03
NI-65		6.83E-06	2.49E-05	3.17E-05
PR-144		1.13E-04	0.	1.13E-04
CD-109		5.19E-05	0.	5.19E-05
CE-141		3.40E-06	0.	3.40E-06
RJ-106		7.22E-05	3.21E-04	3.93E-04
HALOGENS				
I-131		3.27E-02	2.07E-02	5.33E-02
I-133		3.05E-03	2.99E-03	6.04E-03
I-135		2.13E-04	1.20E-03	1.42E-03
I-132		8.14E-04	3.09E-04	1.12E-03
I-134		8.54E-04	9.40E-05	1.03E-04
F-19		2.42E-03	0.	2.42E-03
BR-84		1.56E-05	0.	1.56E-05
GASES				
KR-85		8.22E+01	1.35E+02	2.24E+02
XE-133		1.23E+04	6.82E+03	2.61E+04
KR-88		6.55E+00	8.15E+00	1.47E+01
KR-87		3.72E-01	3.50E-01	7.32E-01
KR-85M		9.75E+00	1.14E+01	2.12E+01
XE-134		2.20E+00	2.45E-01	2.24E+00
XE-135M		9.03E-03	2.26E-01	2.35E-01
XE-135		2.35E+02	1.40E+02	3.75E+02
AR-41		2.84E-01	3.40E-01	2.79E+00
XE-133M		1.77E+02	4.19E+01	2.09E+02
XE-131M		5.50E+01	8.11E+01	1.36E+02
XE-137		1.17E-01	1.81E-01	1.34E-01

11. AIRBORNE RELEASES

	UNIT	1st QUARTER	2nd QUARTER	3rd QUARTER	4th QUARTER	TOTAL
1. TOTAL NOBLE GASES	CURIES	3.08E+03	1.31E+04	1.99E+04	7.21E+03	4.32E+04
2. TOTAL HALOGENS	CURIES	3.09E-02	7.31E-02	3.48E-02	2.52E-02	1.71E-01
3. TOTAL PARTICULATE GROSS BETA-GAMMA	CURIES	3.82E-3	8.38E-13	3.11E-02	6.90E-03	5.07E-02
4. TOTAL TRITIUM	CURIES	4.19E-01	1.55E+01	4.45E+00	4.75E+01	6.79E+01
5. TOTAL PARTICULATE GROSS ALPHA ACTIVITY	CURIES	0.	0.	0.	0.	0.
6. MAXIMUM NOBLE GAS RELEASE RATE	UCI/SEC	1.60E+03	1.60E+03	1.60E+03	1.60E+03	1.60E+03
7. PERCENT OF APPLICABLE LIMIT FOR:						
A. NOBLE GASES	%	6.03E+00	2.56E+01	3.90E+01	1.41E+01	8.43E+01
B. HALOGENS	%	9.12E+00	2.05E+01	9.63E+00	6.64E+00	4.50E+01
C. PARTICULATES	%	3.47E-01	8.37E-01	2.93E+00	6.27E-01	4.61E+00
8. ISOTOPES RELEASED	CURIES					
PARTICULATES						
CS-137		9.24E-06	1.22E-04	1.35E-05	9.22E-05	2.37E-04
BA-LA-140		1.22E-07	5.30E-05	2.25E-05	4.26E-05	1.15E-04
Sr-90		2.01E-07	6.50E-07	2.95E-09	3.67E-09	8.63E-07
CS-134		2.14E-05	4.32E-05	1.02E-05	2.78E-05	1.03E-04
Sr-89		9.45E-07	5.78E-06	6.62E-09	8.16E-03	9.81E-06
CJ-53		7.14E-06	1.19E-04	9.04E-05	6.62E-05	2.53E-04
CS-136		1.56E-06	6.34E-06	1.23E-06	1.56E-06	1.10E-05
CS-138		3.73E-05	6.39E-05	1.02E-04	3.10E-05	2.69E-04
MN-54		3.60E-07	4.67E-07	1.02E-05	9.54E-05	1.14E-05
MO-99		0.	2.91E-07	4.43E-05	1.49E-04	1.93E-04
NB-95		6.60E-09	1.29E-07	3.35E-07	4.62E-03	1.02E-05
CO-60		2.57E-05	1.35E-05	5.77E-06	2.53E-05	7.04E-05
NA-24		0.	8.60E-06	2.29E-08	2.97E-03	3.55E-06
AG-110M		1.62E-06	9.66E-05	4.21E-06	1.88E-05	1.04E-04
CR-51		2.85E-07	3.26E-04	3.75E-03	2.47E-04	4.32E-03
SB-124		0.	0.	1.14E-08	0.	1.14E-08
TC-99A		3.83E-08	2.77E-06	9.43E-08	2.13E-03	2.92E-06
AG-103M		0.	1.89E-06	6.71E-07	1.26E-05	3.31E-06
RB-88		3.70E-03	3.93E-03	2.49E-02	5.57E-03	3.31E-02
HP-239		0.	2.15E-04	1.73E-03	5.40E-06	1.95E-03
CJ-115		8.90E-06	1.05E-04	1.22E-05	3.97E-06	1.35E-04
CE-144		0.	2.21E-04	6.25E-05	1.39E-04	4.22E-04
SR-91		0.	7.16E-05	1.09E-05	3.71E-05	1.20E-04
Y-91M		0.	0.	2.30E-09	0.	2.30E-09
RJ-103		4.74E-03	1.34E-07	5.24E-07	1.45E-07	9.51E-07
MN-56		1.84E-08	1.23E-06	5.76E-07	2.96E-03	1.86E-06
BA-139		0.	2.04E-05	5.93E-06	0.	2.64E-05
S4-125M		0.	0.	0.	0.	0.
Sr-92		0.	1.34E-05	3.81E-06	3.36E-05	2.56E-05
CO-57		0.	4.33E-07	4.20E-07	2.00E-08	8.73E-07
FE-59		0.	9.63E-06	2.65E-06	1.49E-05	1.49E-05
Zr-95		0.	3.33E-05	4.75E-05	2.56E-05	4.56E-05
NB-97		0.	5.76E-07	1.14E-06	1.66E-07	2.30E-06
Zr-97		0.	1.44E-07	2.70E-07	2.52E-03	4.39E-07
Y-92		0.	3.16E-03	2.35E-05	0.	3.18E-03
SB-125		0.	5.73E-05	1.45E-05	3.98E-06	1.04E-04
ZN-65		0.	2.27E-05	3.79E-06	1.79E-06	2.33E-05
W-187		0.	4.79E-05	1.62E-05	2.45E-05	3.67E-05
IN-115M		0.	1.98E-05	2.75E-06	0.	2.25E-05
NA-22		0.	1.03E-07	4.53E-08	2.53E-03	1.74E-07
NI-65		0.	5.38E-05	6.83E-05	2.49E-05	3.55E-05
PR-144		0.	0.	1.13E-04	0.	1.13E-04
CJ-109		0.	0.	5.19E-05	0.	5.19E-05
CE-141		0.	0.	3.40E-06	0.	3.40E-06
RJ-106		0.	0.	7.22E-05	3.21E-04	3.93E-04
HALOGENS						
I-131		2.94E-02	6.37E-02	3.27E-02	2.07E-02	1.51E-01
I-133		1.03E-03	5.49E-03	3.06E-03	2.99E-03	1.25E-02
I-135		4.09E-05	1.34E-03	2.13E-04	1.29E-03	2.79E-03
I-132		9.23E-06	1.41E-04	8.14E-04	3.09E-04	1.27E-03
I-134		7.73E-07	1.62E-05	3.53E-06	9.43E-05	1.20E-04
F-18		3.61E-04	2.55E-03	2.42E-08	0.	3.01E-03
BR-84		0.	0.	1.59E-05	0.	1.56E-05
GASES						
KR-85		3.29E+02	1.51E+02	3.29E+01	1.35E+02	7.04E+02
XE-133		2.35E+03	1.25E+04	1.93E+04	6.82E+03	4.10E+04
KR-83		3.34E+00	7.74E+00	6.56E+00	3.15E+00	3.08E+01
ZR-87		0.	8.19E-01	3.72E-01	3.69E-01	1.55E+00
KR-85B		0.	6.99E+00	9.75E+00	1.14E+01	2.78E+01
XE-134		0.	5.29E-01	2.25E+00	2.65E-02	2.91E+00
XE-135M		0.	3.30E-01	9.93E-01	2.65E-01	5.56E-01
XE-136		1.84E+02	1.43E+02	2.35E+02	1.40E+02	7.07E+02
A4-41		3.33E+01	2.53E+01	2.44E+00	1.42E-01	6.24E+01
Zr-139M		5.14E+00	1.08E+02	1.77E+02	4.33E-01	3.44E+02
XE-131M		1.53E+02	7.31E+01	5.69E+01	4.83E-01	3.11E+02
XE-137		0.	1.51E-01	1.15E-01	1.83E-01	2.95E-01