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U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555


Subject: Oconee Nuclear Site
Docket Nos. 50-269, 50-270 and 50-287
Annual Effluent Release Report

Gentlemen:

Pursuant to Oconee Nuclear Site Selected Licensee Commitment Manual, SLC 16.11-9, and 10 CFR 50.36a(a)(2), please find attached the 2002 Annual Radioactive Effluent Release Report.

Should there be questions concerning this report please contact Judy E. Smith at (864)-885-4309.

Very truly yours,


R. A. Jones
Site Vice President
Oconee Nuclear Site

Attachments

JE48

U. S. Nuclear Regulatory Commission
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Page 2

xc w/attachments: Mr. L. A. Reyes
Regional Administrator, Region II

Mr. L. N. Olshan
Project Manager, ONRR

xc w/o attachments: Mr. Mel Shannon
Senior Resident Inspector, ONS

Mr. Henry Porter
Division of Radioactive Waste
Management

American Nuclear Insurers
ANI Library
Town Center, Suite 300S
29 South Main Street
West Hartford, CT 06107-2445

Mr. William Nestel
INPO Records Center
700 Galleria Place, Suite 100
Atlanta, GA 30339-5957

Attachment 1

Oconee Nuclear Site

**Effluent Release Data
And Supplemental Information**

OCONEE NUCLEAR STATION

EFFLUENT RELEASE DATA

(January 1, 2002 through December 31, 2002)

This attachment includes a summary of the quantities of radioactive liquid and gaseous effluents as outlined in Regulatory Guide 1.21, Appendix B.

TABLE 1A

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
PERIOD 1/1/02 TO 1/1/03
GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

Oconee Nuclear Station Units 1, 2, & 3

REPORT FOR 2002	Unit	QTR 1	QTR 2	QTR 3	QTR 4	YEAR
A. Fission and Activation Gases						
1. Total Release	Ci	8.46E-01	1.30E-01	5.56E+00	7.87E-01	7.32E+00
2. Avg. Release Rate	μCi/sec	1.09E-01	1.65E-02	6.99E-01	9.90E-02	2.32E-01
B. Iodine-131						
1. Total Release	Ci	1.57E-06	3.69E-10	0.00E+00	5.12E-06	6.68E-06
2. Avg. Release Rate	μCi/sec	2.01E-07	4.70E-11	0.00E+00	6.44E-07	2.12E-07
C. Particulates Half Life >= 8 days						
1. Total Release	Ci	0.00E+00	2.31E-11	0.00E+00	0.00E+00	2.31E-11
2. Avg. Release Rate	μCi/sec	0.00E+00	2.93E-12	0.00E+00	0.00E+00	7.31E-13
D. Tritium						
1. Total Release	Ci	2.80E+01	1.32E+01	4.23E+01	2.34E+01	1.07E+02
2. Avg. Release Rate	μCi/sec	3.60E+00	1.68E+00	5.32E+00	2.94E+00	3.39E+00

TABLE 1B

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
PERIOD 1/1/02 TO 1/1/03
GASEOUS EFFLUENTS - ELEVATED RELEASES - CONTINUOUS MODE

Oconee Nuclear Station Units 1, 2, & 3

REPORT FOR 2002	Unit	QTR 1	QTR 2	QTR 3	QTR 4	YEAR
1. Fission and Activation Gases						
XE-131M	Ci	0.00E+00	0.00E+00	1.62E+00	0.00E+00	1.62E+00
XE-133	Ci	0.00E+00	0.00E+00	3.73E+00	0.00E+00	3.73E+00
XE-135	Ci	0.00E+00	0.00E+00	0.00E+00	1.88E-01	1.88E-01
Totals for Period...	Ci	0.00E+00	0.00E+00	5.35E+00	1.88E-01	5.54E+00
2. Iodines						
I-131	Ci	1.57E-06	0.00E+00	0.00E+00	5.01E-06	6.57E-06
I-133	Ci	5.98E-06	0.00E+00	0.00E+00	8.13E-06	1.41E-05
Totals for Period...	Ci	7.55E-06	0.00E+00	0.00E+00	1.31E-05	2.07E-05
3. Particulates Half Life >= 8 days						
** No Nuclide Activities **		.....	.....	.....	.....	.....
4. Tritium						
H-3	Ci	2.69E+01	9.62E+00	3.99E+01	1.93E+01	9.56E+01
Totals for Period...	Ci	2.69E+01	9.62E+00	3.99E+01	1.93E+01	9.56E+01

TABLE 1B

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
 PERIOD 1/1/02 TO 1/1/03
 GASEOUS EFFLUENTS - ELEVATED RELEASES - BATCH MODE

Oconee Nuclear Station Units 1, 2, & 3

REPORT FOR 2002	Unit	QTR 1	QTR 2	QTR 3	QTR 4	YEAR
1. Fission and Activation Gases						
AR-41	Ci	5.92E-03	2.17E-02	2.54E-02	0.00E+00	5.30E-02
C-11	Ci	2.95E-04	0.00E+00	0.00E+00	0.00E+00	2.95E-04
KR-85	Ci	7.14E-02	7.01E-02	1.04E-01	1.41E-02	2.59E-01
KR-85M	Ci	1.32E-03	0.00E+00	8.16E-05	0.00E+00	1.40E-03
XE-131M	Ci	0.00E+00	1.19E-04	0.00E+00	2.53E-02	2.54E-02
XE-133	Ci	7.22E-01	3.62E-02	7.03E-02	5.41E-01	1.37E+00
XE-133M	Ci	0.00E+00	0.00E+00	0.00E+00	7.20E-03	7.20E-03
XE-135	Ci	4.53E-02	1.66E-03	2.91E-03	1.17E-02	6.16E-02
Totals for Period...	Ci	8.46E-01	1.30E-01	2.03E-01	5.99E-01	1.78E+00
2. Iodines						
I-131	Ci	0.00E+00	3.69E-10	0.00E+00	1.10E-07	1.10E-07
Totals for Period...	Ci	0.00E+00	3.69E-10	0.00E+00	1.10E-07	1.10E-07
3. Particulates Half Life >= 8 days						
SE-75	Ci	0.00E+00	2.31E-11	0.00E+00	0.00E+00	2.31E-11
Totals for Period...	Ci	0.00E+00	2.31E-11	0.00E+00	0.00E+00	2.31E-11
4. Tritium						
H-3	Ci	2.46E-02	1.31E-01	8.50E-03	4.78E-02	2.12E-01
Totals for Period...	Ci	2.46E-02	1.31E-01	8.50E-03	4.78E-02	2.12E-01

TABLE 1C

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
 PERIOD 1/1/02 TO 1/1/03
 GASEOUS EFFLUENTS - GROUND RELEASES - CONTINUOUS MODE

Oconee Nuclear Station Units 1, 2, & 3

REPORT FOR 2002	Unit	QTR 1	QTR 2	QTR 3	QTR 4	YEAR
1. Fission and Activation Gases						
** No Nuclide Activities **		.....	.....	.....	.....	.....
2. Iodines						
** No Nuclide Activities **		.....	.....	.....	.....	.....
3. Particulates Half Life >= 8 days						
** No Nuclide Activities **		.....	.....	.....	.....	.....
4. Tritium						
H-3	Ci	1.10E+00	3.50E+00	2.33E+00	4.08E+00	1.10E+01
Totals for Period...	Ci	1.10E+00	3.50E+00	2.33E+00	4.08E+00	1.10E+01

TABLE 1C

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
 PERIOD 1/1/02 TO 1/1/03
 GASEOUS EFFLUENTS - GROUND RELEASES - BATCH MODE

Oconee Nuclear Station Units 1, 2, & 3

REPORT FOR 2002	Unit	QTR 1	QTR 2	QTR 3	QTR 4	YEAR
1. Fission and Activation Gases						
** No Nuclide Activities **	
2. Iodines						
** No Nuclide Activities **	
3. Particulates Half Life >= 8 days						
** No Nuclide Activities **	
4. Tritium						
** No Nuclide Activities **	

TABLE 2A

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
PERIOD 1/1/02 TO 1/1/03
LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

Oconee Nuclear Station Units 1, 2, & 3

REPORT FOR 2002	Unit	QTR 1	QTR 2	QTR 3	QTR 4	YEAR
A. Fission and Activation Products						
1. Total Release	Ci	1.62E-02	2.04E-02	9.74E-03	5.57E-02	1.02E-01
2. Average Diluted Concentration						
a. Continuous Releases	μ Ci/ml	0.00E+00	0.00E+00	0.00E+00	3.79E-10	9.71E-11
b. Batch Releases	μ Ci/ml	9.72E-10	1.21E-09	5.70E-10	2.86E-09	1.41E-09
B. Tritium						
1. Total Release	Ci	1.82E+02	1.60E+02	2.39E+02	3.13E+02	8.93E+02
2. Average Diluted Concentration						
a. Continuous Releases	μ Ci/ml	6.49E-08	4.24E-08	5.31E-08	6.37E-08	5.60E-08
b. Batch Releases	μ Ci/ml	1.08E-05	9.42E-06	1.39E-05	1.82E-05	1.31E-05
C. Dissolved and Entrained Gases						
1. Total Release	Ci	1.83E-04	0.00E+00	4.93E-03	4.92E-04	5.60E-03
2. Average Diluted Concentration						
a. Continuous Releases	μ Ci/ml	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
b. Batch Releases	μ Ci/ml	1.09E-11	0.00E+00	2.88E-10	2.88E-11	8.26E-11
D. Gross Alpha Radioactivity						
1. Total Release	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2. Average Diluted Concentration						
a. Continuous Releases	μ Ci/ml	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
b. Batch Releases	μ Ci/ml	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
E. Volume of Liquid Waste						
1. Continuous Releases	liters	4.44E+08	4.08E+08	3.39E+08	7.41E+08	1.93E+09
2. Batch Releases	liters	2.23E+06	3.11E+06	2.19E+06	3.92E+06	1.14E+07
F. Volume of Dilution Water						
1. Continuous Releases	liters	1.67E+10	1.69E+10	1.71E+10	1.71E+10	6.78E+10
2. Batch Releases	liters	1.67E+10	1.69E+10	1.71E+10	1.71E+10	6.78E+10

TABLE 2B

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
 PERIOD 1/1/02 TO 1/1/03
 LIQUID EFFLUENTS - CONTINUOUS MODE

Oconee Nuclear Station Units 1, 2, & 3

REPORT FOR 2002	Unit	QTR 1	QTR 2	QTR 3	QTR 4	YEAR
1. Fission and Activation Products						
CS-137	Ci	0.00E+00	0.00E+00	0.00E+00	6.77E-03	6.77E-03
Totals for Period...	Ci	0.00E+00	0.00E+00	0.00E+00	6.77E-03	6.77E-03
2. Tritium						
H-3	Ci	1.11E+00	7.33E-01	9.26E-01	1.14E+00	3.91E+00
Totals for Period...	Ci	1.11E+00	7.33E-01	9.26E-01	1.14E+00	3.91E+00
3. Dissolved and Entrained Gases						
** No Nuclide Activities **		.....	.....	.....	.....	.....
4. Gross Alpha Radioactivity						
** No Nuclide Activities **		.....	.....	.....	.....	.....

TABLE 2B

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
PERIOD 1/1/02 TO 1/1/03
LIQUID EFFLUENTS - BATCH MODE

Oconee Nuclear Station Units 1, 2, & 3

REPORT FOR 2002	Unit	QTR 1	QTR 2	QTR 3	QTR 4	YEAR
1. Fission and Activation Products						
AG-110M	Ci	4.37E-03	2.98E-03	1.04E-03	3.48E-03	1.19E-02
CE-141	Ci	0.00E+00	0.00E+00	7.24E-06	0.00E+00	7.24E-06
CE-143	Ci	0.00E+00	0.00E+00	0.00E+00	1.88E-05	1.88E-05
CO-57	Ci	1.96E-05	4.02E-05	5.45E-05	2.27E-05	1.37E-04
CO-58	Ci	6.99E-03	1.42E-02	2.71E-03	1.38E-02	3.77E-02
CO-60	Ci	8.24E-04	1.26E-03	1.06E-03	9.46E-04	4.09E-03
CR-51	Ci	0.00E+00	0.00E+00	3.99E-05	0.00E+00	3.99E-05
CS-134	Ci	3.20E-05	0.00E+00	6.53E-05	1.50E-04	2.47E-04
CS-137	Ci	8.01E-04	7.40E-04	8.13E-04	2.56E-03	4.92E-03
I-133	Ci	2.23E-05	0.00E+00	0.00E+00	0.00E+00	2.23E-05
MN-54	Ci	1.33E-05	0.00E+00	2.69E-05	8.75E-06	4.89E-05
NB-95	Ci	5.39E-05	1.08E-04	1.86E-05	2.87E-04	4.67E-04
NP-239	Ci	0.00E+00	0.00E+00	0.00E+00	3.88E-05	3.88E-05
RU-103	Ci	0.00E+00	0.00E+00	4.83E-06	0.00E+00	4.83E-06
SB-124	Ci	2.37E-04	0.00E+00	0.00E+00	4.89E-04	7.26E-04
SB-125	Ci	2.87E-03	1.11E-03	3.89E-03	2.70E-02	3.49E-02
TE-132	Ci	0.00E+00	1.55E-05	0.00E+00	1.42E-05	2.97E-05
ZR-95	Ci	0.00E+00	0.00E+00	0.00E+00	5.45E-05	5.45E-05
Totals for Period...	Ci	1.62E-02	2.05E-02	9.73E-03	4.89E-02	9.54E-02
2. Tritium						
H-3	Ci	1.81E+02	1.59E+02	2.38E+02	3.12E+02	8.90E+02
Totals for Period...	Ci	1.81E+02	1.59E+02	2.38E+02	3.12E+02	8.90E+02
3. Dissolved and Entrained Gases						
KR-85	Ci	0.00E+00	0.00E+00	4.55E-03	0.00E+00	4.55E-03
XE-131M	Ci	0.00E+00	0.00E+00	3.75E-04	0.00E+00	3.75E-04
XE-133	Ci	1.83E-04	0.00E+00	0.00E+00	4.92E-04	6.75E-04
Totals for Period...	Ci	1.83E-04	0.00E+00	4.93E-03	4.92E-04	5.60E-03
4. Gross Alpha Radioactivity						
** No Nuclide Activities **		.....	.....	.....	.....	.....

OCONEE NUCLEAR STATION
SUPPLEMENTAL INFORMATION

OCONEE NUCLEAR STATION

2002 EFFLUENT AND WASTE DISPOSAL SUPPLEMENTAL INFORMATION

I. REGULATORY LIMITS - STATION

A. NOBLE GASES - AIR DOSE

1. CALENDAR QUARTER - GAMMA DOSE = 15 MRAD
2. CALENDAR QUARTER - BETA DOSE = 30 MRAD
3. CALENDAR YEAR - GAMMA DOSE = 30 MRAD
4. CALENDAR YEAR - BETA DOSE = 60 MRAD

B. LIQUID EFFLUENTS - DOSE

1. CALENDAR QUARTER - TOTAL BODY DOSE = 4.5 MREM
2. CALENDAR QUARTER - ORGAN DOSE = 15 MREM
3. CALENDAR YEAR - TOTAL BODY DOSE = 9 MREM
4. CALENDAR YEAR - ORGAN DOSE = 30 MREM

C. IODINE - 131 AND 133, TRITIUM, PARTICULATES W/T 1/2 > 8 DAYS - ORGAN DOSE

1. CALENDAR QUARTER = 22.5 MREM
2. CALENDAR YEAR = 45 MREM

II. MAXIMUM PERMISSIBLE EFFLUENT CONCENTRATIONS

- A. GASEOUS EFFLUENTS - INFORMATION FOUND IN OFFSITE DOSE CALCULATION MANUAL
- B. LIQUID EFFLUENTS - INFORMATION FOUND IN 10CFR20, APPENDIX B, TABLE 2, COLUMN 2

III. AVERAGE ENERGY - NOT APPLICABLE

IV. MEASUREMENTS AND APPROXIMATIONS OF TOTAL RADIOACTIVITY

INFORMATION FOUND IN OFFSITE DOSE CALCULATION MANUAL

V. BATCH RELEASES

A. LIQUID EFFLUENT

1. 2.23E+02 = TOTAL NUMBER OF BATCH RELEASES
2. 2.78E+04 = TOTAL TIME (MIN.) FOR BATCH RELEASES.
3. 2.40E+02 = MAXIMUM TIME (MIN.) FOR A BATCH RELEASE.
4. 1.25E+02 = AVERAGE TIME (MIN.) FOR A BATCH RELEASE.
5. 1.00E+00 = MINIMUM TIME (MIN.) FOR A BATCH RELEASE.
6. 3.41E+04 = AVERAGE DILUTION WATER FLOW DURING RELEASES (GPM).

B. GASEOUS EFFLUENT

1. 5.40E+01 = TOTAL NUMBER OF BATCH RELEASES.
2. 1.04E+05 = TOTAL TIME (MIN.) FOR BATCH RELEASES.
3. 3.70E+04 = MAXIMUM TIME (MIN.) FOR A BATCH RELEASE.
4. 1.92E+03 = AVERAGE TIME (MIN.) FOR A BATCH RELEASE.
5. 1.60E+01 = MINIMUM TIME (MIN.) FOR A BATCH RELEASE.

VI. ABNORMAL RELEASES

A. LIQUID

1. NUMBER OF RELEASES = 0
2. TOTAL ACTIVITY RELEASED (CURIES) = 0

B. GASEOUS

1. NUMBER OF RELEASES = 0
2. TOTAL ACTIVITY RELEASED (CURIES) = 0

SUPPLEMENTAL REPORT PAGE 2

OCONEE NUCLEAR STATION

The estimated percentage of error for both Liquid and Gaseous effluent release data at Oconee Nuclear Station has been determined to be $\pm 25.2\%$. This value was derived by taking the square root of the sum of the squares of the following discrete individual estimates of error:

- (1) Flow rate determining devices = $\pm 20\%$
- (2) Counting error = $\pm 15\%$
- (3) Sample preparation error = $\pm 3\%$

OCONEE NUCLEAR STATION

UNPLANNED RELEASES

(January 1, 2002 through December 31, 2002)

There were no unplanned gaseous or liquid radioactive effluent releases to the environment in 2002.

OCONEE NUCLEAR STATION

Assessment of Radiation Dose from Radioactive Effluents to Members of the Public

(January 1, 2002 through December 31, 2002)

This attachment includes an assessment of radiation doses to the maximum exposed member of the public due to radioactive liquid and gaseous effluents released from the site for each calendar quarter for the calendar year of this report, as well as the total dose for the calendar year. This attachment also includes an assessment of radiation doses to the maximum exposed member of the public from all uranium fuel cycle sources within 10 miles of Oconee for the calendar year of this report to show conformance with 40 CFR 190. Methods for calculating the dose contribution from liquid and gaseous effluents are given in the ODCM.

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
 PERIOD 1/1/02 TO 1/1/03
 GASEOUS ANNUAL DOSE SUMMARY REPORT

Oconee Nuclear Station Units 1, 2, & 3

1st Quarter 2002

=== IODINE, H3, and PARTICULATE DOSE LIMIT ANALYSIS===== Quarter 1 2002 ===					
Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Q1 - Maximum Organ Dose	CHILD	THYROID	8.08E-03	2.25E+01	3.59E-02

Maximum Organ Dose Receptor Location: 1.0 Mile SW
 Critical Pathway: Vegetation

Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
H-3	9.96E+01

=== NOBLE GAS DOSE LIMIT ANALYSIS===== Quarter 1 2002 ===			
Period-Limit	Dose (mrad)	Limit (mrad)	% of Limit
Q1 - Maximum Gamma Air Dose	2.12E-05	1.50E+01	1.41E-04

Maximum Gamma Air Dose Receptor Location: 1.0 Mile SW

Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
XE-133	6.38E+01
XE-135	2.17E+01
AR-41	1.38E+01

Q1 - Maximum Beta Air Dose	5.46E-05	3.00E+01	1.82E-04
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Maximum Beta Air Dose Receptor Location: 1.0 Mile SW

Major Contributors (5% or greater to total)

Nuclide	Percentage
XE-133	7.36E+01
KR-85	1.35E+01
XE-135	1.08E+01

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
 PERIOD 1/1/02 TO 1/1/03
 GASEOUS ANNUAL DOSE SUMMARY REPORT

Oconee Nuclear Station Units 1, 2, & 3

2nd Quarter 2002

=== IODINE, H3, and PARTICULATE DOSE LIMIT ANALYSIS===== Quarter 2 2002 ===

Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Q2 - Maximum Organ Dose	CHILD	THYROID	5.35E-03	2.25E+01	2.38E-02

Maximum Organ Dose Receptor Location: 1.0 Mile SE
 Critical Pathway: Vegetation

Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
H-3	1.00E+02

=== NOBLE GAS DOSE LIMIT ANALYSIS===== Quarter 2 2002 ===

Period-Limit	Dose (mrad)	Limit (mrad)	% of Limit
Q2 - Maximum Gamma Air Dose	1.16E-05	1.50E+01	7.74E-05

Maximum Gamma Air Dose Receptor Location: 1.0 Mile SW

Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
AR-41	9.22E+01
XE-133	5.84E+00

Q2 - Maximum Beta Air Dose	1.33E-05	3.00E+01	4.42E-05
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Maximum Beta Air Dose Receptor Location: 1.0 Mile SW

Major Contributors (5% or greater to total)

Nuclide	Percentage
KR-85	5.46E+01
AR-41	2.85E+01
XE-133	1.52E+01

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
 PERIOD 1/1/02 TO 1/1/03
 GASEOUS ANNUAL DOSE SUMMARY REPORT

Oconee Nuclear Station Units 1, 2, & 3

3rd Quarter 2002

=== IODINE, H3, and PARTICULATE DOSE LIMIT ANALYSIS===== Quarter 3 2002 ===

Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Q3 - Maximum Organ Dose	CHILD	LIVER	1.24E-02	2.25E+01	5.52E-02

Maximum Organ Dose Receptor Location: 1.0 Mile SW
 Critical Pathway: Vegetation

Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
H-3	1.00E+02

=== NOBLE GAS DOSE LIMIT ANALYSIS===== Quarter 3 2002 ===

Period-Limit	Dose (mrad)	Limit (mrad)	% of Limit
Q3 - Maximum Gamma Air Dose	9.75E-05	1.50E+01	6.50E-04

Maximum Gamma Air Dose Receptor Location: 1.0 Mile SW

Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
XE-133	7.30E+01
XE-131M	1.38E+01
AR-41	1.28E+01

Q3 - Maximum Beta Air Dose	3.23E-04	3.00E+01	1.08E-03
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Maximum Beta Air Dose Receptor Location: 1.0 Mile SW

Major Contributors (5% or greater to total)

Nuclide	Percentage
XE-133	6.56E+01
XE-131M	2.96E+01

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
 PERIOD 1/1/02 TO 1/1/03
 GASEOUS ANNUAL DOSE SUMMARY REPORT

Oconee Nuclear Station Units 1, 2, & 3

4th Quarter 2002

=== IODINE, H3, and PARTICULATE DOSE LIMIT ANALYSIS===== Quarter 4 2002 ===

Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Q4 - Maximum Organ Dose	CHILD	THYROID	8.08E-03	2.25E+01	3.59E-02

Maximum Organ Dose Receptor Location: 1.0 Mile SW
 Critical Pathway: Vegetation

Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
H-3	9.87E+01

=== NOBLE GAS DOSE LIMIT ANALYSIS===== Quarter 4 2002 ===

Period-Limit	Dose (mrad)	Limit (mrad)	% of Limit
Q4 - Maximum Gamma Air Dose	3.08E-05	1.50E+01	2.05E-04

Maximum Gamma Air Dose Receptor Location: 1.0 Mile SW

Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
XE-135	6.60E+01
XE-133	3.29E+01

Q4 - Maximum Beta Air Dose	5.96E-05	3.00E+01	1.99E-04
----------------------------	----------	----------	----------

Maximum Beta Air Dose Receptor Location: 1.0 Mile SW

Major Contributors (5% or greater to total)

Nuclide	Percentage
XE-133	5.05E+01
XE-135	4.36E+01

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
 PERIOD 1/1/02 TO 1/1/03
 GASEOUS ANNUAL DOSE SUMMARY REPORT

Oconee Nuclear Station Units 1, 2, & 3

ANNUAL 2002

=== IODINE, H3, and PARTICULATE DOSE LIMIT ANALYSIS===== Annual 2002 =====

Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Yr - Maximum Organ Dose	CHILD	THYROID	3.36E-02	4.50E+01	7.46E-02

Maximum Organ Dose Receptor Location: 1.0 Mile SW
 Critical Pathway: Vegetation

Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
H-3	9.96E+01

=== NOBLE GAS DOSE LIMIT ANALYSIS===== Annual 2002 =====

Period-Limit	Dose (mrad)	Limit (mrad)	% of Limit
Yr - Maximum Gamma Air Dose	1.61E-04	3.00E+01	5.37E-04

Maximum Gamma Air Dose Receptor Location: 1.0 Mile SW

Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
XE-133	5.93E+01
AR-41	1.62E+01
XE-135	1.58E+01
XE-131M	8.46E+00

Yr - Maximum Beta Air Dose 4.50E-04 6.00E+01 7.50E-04

Maximum Beta Air Dose Receptor Location: 1.0 Mile SW

Major Contributors (5% or greater to total)

Nuclide	Percentage
XE-133	6.31E+01
XE-131M	2.15E+01
XE-135	7.22E+00
KR-85	5.96E+00

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
 PERIOD 1/1/02 TO 1/1/03
 LIQUID ANNUAL DOSE SUMMARY REPORT

Oconee Nuclear Station Units 1, 2, & 3

1st Quarter 2002

=== BATCH LIQUID RELEASES ===			Quarter 1 2002 =====		
Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Q1 - Maximum Organ Dose	TEEN	LIVER	6.46E-02	1.50E+01	4.31E-01
Q1 - Total Body Dose	ADULT		4.36E-02	4.50E+00	9.68E-01

Maximum Organ

Critical Pathway: Fresh Water Fish
 Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
CS-137	8.75E+01
H-3	6.32E+00

Total Body

Critical Pathway: Fresh Water Fish
 Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
CS-137	8.14E+01
H-3	1.22E+01
CS-134	5.50E+00

=== CONTINUOUS LIQUID RELEASES (CTP 3) ===			Quarter 1 2002 =====		
Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Q1 - Maximum Organ Dose	ADULT	LIVER	3.18E-05	1.50E+01	2.12E-04
Q1 - Total Body Dose	ADULT		3.18E-05	4.50E+00	7.07E-04

Maximum Organ

Critical Pathway: Fresh Water Fish
 Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
H-3	1.00E+02

Total Body

Critical Pathway: Fresh Water Fish
 Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
H-3	1.00E+02

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
 PERIOD 1/1/02 TO 1/1/03
 LIQUID ANNUAL DOSE SUMMARY REPORT

Oconee Nuclear Station Units 1, 2, & 3

2ND Quarter 2002

=== BATCH LIQUID RELEASES === Quarter 2 2002 ===					
Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Q2 - Maximum Organ Dose	TEEN	LIVER	5.71E-02	1.50E+01	3.81E-01
Q2 - Total Body Dose	ADULT		3.81E-02	4.50E+00	8.46E-01

Maximum Organ
 Critical Pathway: Fresh Water Fish
 Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
CS-137	9.14E+01
H-3	6.29E+00

Total Body
 Critical Pathway: Fresh Water Fish
 Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
CS-137	8.60E+01
H-3	1.23E+01

=== CONTINUOUS LIQUID RELEASES (CTP 3) === Quarter 2 2002 ===					
Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Q2 - Maximum Organ Dose	ADULT	LIVER	2.10E-05	1.50E+01	1.40E-04
Q2 - Total Body Dose	ADULT		2.10E-05	4.50E+00	4.66E-04

Maximum Organ
 Critical Pathway: Fresh Water Fish
 Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
H-3	1.00E+02

Total Body
 Critical Pathway: Fresh Water Fish
 Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
H-3	1.00E+02

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
 PERIOD 1/1/02 TO 1/1/03
 LIQUID ANNUAL DOSE SUMMARY REPORT

Oconee Nuclear Station Units 1, 2, & 3

3rd Quarter 2002

=== BATCH LIQUID RELEASES ===						Quarter 3 2002 =====	
Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit		
Q3 - Maximum Organ Dose	TEEN	LIVER	6.96E-02	1.50E+01	4.64E-01		
Q3 - Total Body Dose	ADULT		4.81E-02	4.50E+00	1.07E+00		

Maximum Organ
 Critical Pathway: Fresh Water Fish
 Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
CS-137	8.24E+01
CS-134	8.72E+00
H-3	7.71E+00

Total Body
 Critical Pathway: Fresh Water Fish
 Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
CS-137	7.48E+01
H-3	1.45E+01
CS-134	1.02E+01

=== CONTINUOUS LIQUID RELEASES (CTP 3) ===						Quarter 3 2002 =====	
Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit		
Q3 - Maximum Organ Dose	ADULT	LIVER	2.66E-05	1.50E+01	1.77E-04		
Q3 - Total Body Dose	ADULT		2.66E-05	4.50E+00	5.91E-04		

Maximum Organ
 Critical Pathway: Fresh Water Fish
 Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
H-3	1.00E+02

Total Body
 Critical Pathway: Fresh Water Fish
 Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
H-3	1.00E+02

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
 PERIOD 1/1/02 TO 1/1/03
 LIQUID ANNUAL DOSE SUMMARY REPORT

Oconee Nuclear Station Units 1, 2, & 3

4th Quarter 2002

Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Q4 - Maximum Organ Dose	TEEN	LIVER	2.03E-01	1.50E+01	1.35E+00
Q4 - Total Body Dose	ADULT		1.34E-01	4.50E+00	2.98E+00

Maximum Organ
 Critical Pathway: Fresh Water Fish
 Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
CS-137	8.91E+01
CS-134	6.86E+00

Total Body
 Critical Pathway: Fresh Water Fish
 Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
CS-137	8.44E+01
CS-134	8.35E+00
H-3	6.81E+00

Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Q4 - Maximum Organ Dose	TEEN	LIVER	4.57E-01	1.50E+01	3.05E+00
Q4 - Total Body Dose	ADULT		2.87E-01	4.50E+00	6.37E+00

Maximum Organ
 Critical Pathway: Fresh Water Fish
 Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
CS-137	1.00E+02

Total Body
 Critical Pathway: Fresh Water Fish
 Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
CS-137	1.00E+02

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
 PERIOD 1/1/02 TO 1/1/03
 LIQUID ANNUAL DOSE SUMMARY REPORT

Oconee Nuclear Station Units 1, 2, & 3

ANNUAL 2002

=== BATCH LIQUID RELEASES ===				Annual 2002	
Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Yr - Maximum Organ Dose	TEEN	LIVER	3.94E-01	3.00E+01	1.31E+00
Yr - Total Body Dose	ADULT		2.64E-01	9.00E+00	2.93E+00

Maximum Organ
 Critical Pathway: Fresh Water Fish
 Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
CS-137	8.80E+01
CS-134	5.83E+00
H-3	5.09E+00

Total Body
 Critical Pathway: Fresh Water Fish
 Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
CS-137	8.24E+01
H-3	9.88E+00
CS-134	7.01E+00

=== CONTINUOUS LIQUID RELEASES (CTP 3) ===				Annual 2002	
Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Yr - Maximum Organ Dose	TEEN	LIVER	4.64E-01	3.00E+01	1.55E+00
Yr - Total Body Dose	ADULT		2.91E-01	9.00E+00	3.24E+00

Maximum Organ
 Critical Pathway: Fresh Water Fish
 Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
CS-137	1.00E+02

Total Body
 Critical Pathway: Fresh Water Fish
 Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
CS-137	1.00E+02

Oconee Nuclear Station
2002 Radioactive Effluent Releases
40CFR190 Uranium Fuel Cycle Dose* Calculation Results

Maximum Total Body Dose = 3.14E-01 mrem

Maximum Location: Site Boundary (1.0 mile), South-West Sector
Critical Age = Adult

Liquid and Gas Effluent Contribution to Maximum Total Body Dose

Liquid Effluent Dose = 2.91E-01 mrem = 93% of total

Critical Path = Fish
Major Contributors = Cs-137 (100.0%)

Gas Effluent Dose = 2.29E-02 mrem = 7% of total

Critical Path = Vegetable
Major Contributor = H-3 (100.0%)

Maximum Organ Dose = 4.90E-01 mrem

Maximum Location: Site Boundary (1.0 mile), South-West Sector
Critical Age = Teen
Critical Organ = Liver

Liquid and Gas Effluent Contribution to Maximum Organ Dose

Liquid Effluent Dose = 4.64E-01 mrem = 95% of total

Critical Path = Fish
Major Contributors = Cs-137 (100.0%)

Gas Effluent Dose = 2.52E-02 mrem = 5% of total

Critical Path = Vegetable
Major Contributors = H-3 (100.0%)

* Annual dose limits from 40CFR190.10(a) of 25 mrem whole body, 75 mrem to the thyroid, and 25 mrem to any other organ.

OCONEE NUCLEAR STATION
2002 METEOROLOGICAL JOINT FREQUENCY DISTRIBUTIONS
OF WIND SPEED, WIND DIRECTION, AND ATMOSPHERIC
STABILITY
USING WINDS AT THE 10 METER LEVEL
(Hours of Occurrence)

PASQUILL STABILITY G

	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
	0.45	0.75	1.00	1.25	1.50				
	0.74	0.99	1.24	1.49	1.99	TOTAL			
	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
SECTOR									
-N-	2								2
-NNE-	1	2		1					4
-ESE-				1					1
-SE-			1						1
-SW-	1	3	1	1	1				7
-WSW-	2		1						3
-W-	1	7	3						11
-WNW-	2	8	16	8	1				35
-NW-	1	4	1	4	3				13
-NNW-	1	2	2						5
-CALM-	2								2
TOTAL	13	27	25	14	5				84

10M WIND SPEED/DIRECTION/DELTA-T STABILITY

STABILITY CLASSES BASED ON DELTA-T BETWEEN UPPER-LOWER LEVELS

ALL STABILITY CLASSES

	WIND SPEED CLASS											
	0.45-	0.75-	1.00-	1.25-	1.50-	2.00-	3.00-	4.00-	5.00-	6.00-	8.00->	9.99
	0.74	0.99	1.24	1.49	1.99	2.99	3.99	4.99	5.99	7.99	9.99	M/S
	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
SECTOR												
-N-	27	115	71	93	98	157	67	3	1			632
-NNE-	17	59	56	91	132	181	46	2				584
-NE-	6	39	44	63	143	226	103	28	3			655
-ENE-	3	36	48	76	134	274	119	21				711
-E-	14	27	45	33	85	113	12		1			330
-ESE-	14	25	39	51	73	39	3					244
-SE-	4	27	36	72	119	46	1					305
-SSE-	7	31	53	70	96	45	2					304
-S-	11	36	27	48	127	63	14	3				329
-SSW-	3	42	34	48	117	242	138	22	3			652
-SW-	15	47	44	83	174	327	144	95	35	28		992
-WSW-	19	53	70	54	106	165	62	68	33	28	4	662
-W-	29	90	50	45	62	54	40	29	8	16	3	426
-WNW-	41	133	118	98	53	50	31	32	40	33	3	632
-NW-	36	116	94	84	57	46	17	18	11	17		497
-NNW-	31	126	68	70	49	26	11	5	2	1		389
-CALM-	14											14
TOTAL	291	1002	897	1079	1625	2054	810	326	136	127	10	8358

Attachment 2

Oconee Nuclear Site

Solid Waste Disposal Report

OCONEE NUCLEAR STATION ANNUAL RADWASTE REPORT

1/14/2003

DUKE POWER COMPANY
 OCONEE NUCLEAR STATION
 SOLID RADIOACTIVE WASTE SHIPPED TO A DISPOSAL FACILITY

TYPES OF WASTE SHIPPED	REPORT PERIOD: JANUARY - DECEMBER		YEAR: 2002			CONTAINER TYPE	CU. FT.	BURIAL VOLUME CU. M.	TOTAL ACTIVITY CURIES
	NUMBER OF SHIPMENTS	NUMBER OF CONTAINERS	A-U	WASTE CLASS A-S B C	C				
1) WASTE FROM LIQUID SYSTEM									
(A) DEWATERED POWDEX RESIN	3	9	9	0	0	0	1866.6	52.86	2.75
(B) DEWATERED BEAD RESIN	2	2	0	0	1	1	240.6	6.81	111.53
(C) EVAPORATOR CONCENTRATES	0	0	0	0	0	0	0	0.00	0.00
(D) DEWATERED MECHANICAL FILTERS									
1. PRIMARY FILTER MEDIA	4	4	0	0	0	4	422.15	11.95	79.68
2. SECONDARY FILTER MEDIA	2	2	2	0	0	0	14.7	0.42	0.01
(E) DEWATERED DEMINERALIZERS	4	4	0	0	2	2	481.2	13.63	183.82
(F) SOLIDIFIED (CEMENT) OIL, ACIDS, SLUDGES	0	0	0	0	0	0	0	0.00	0.00
2) DRY SOLID WASTE									
(A) DRY ACTIVE WASTE (COMPACTED)	74	74	74	0	0	0	1332.9	37.74	4.82
(2)	22	22	22	0	0	0	658.34	18.64	6.14
(B) DRY ACTIVE WASTE (NON-COMPACTED)	2	2	0	0	0	2	59.05	1.67	30.66
(C) DRY ACTIVE WASTE (BROKERED)	0	0	0	0	0	0	0	0.00	0.00
(D) IRRADIATED COMPONENTS	1	1	0	0	0	1	57.4	1.63	9,010.00
TOTAL	114	120	107	0	3	10	5132.93	145.35	9429.40

NOTE: (1) SHIPMENTS FROM DURATEK TO ENVIROCORE OF UTAH OR CNSI @ BARNWELL (DAW)
 (2) SHIPMENTS FROM DURATEK TO ENVIROCORE OF UTAH OR CNSI @ BARNWELL (METAL)
 * SHIPMENTS MADE FROM OTHER COMPANYS SO INFORMATION IS NOT KNOWN

Oconee Nuclear Station Annual Report

OCONEE NUCLEAR STATION SOLID RADWASTE REPORT
 REPORT PERIOD: JANUARY - DECEMBER
 WASTE TYPE: POWDEX RESIN

ISOTOPE	% ABUNDANCE/LINER	# OF LINERS SHIPPED TO ENVIRO CARE	# OF SHIPMENTS TO ATG	# OF LINERS SHIPPED TO ATG	# OF SHIPMENTS TO ENVIRO CARE	# OF SHIPMENTS TO ATG	TOTAL	AVE
CR-51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MN-54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CO-57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CO-58	0.00	0.15	0.00	0.00	0.00	0.00	0.26	0.09
CO-60	3.79	1.69	0.00	0.00	0.00	0.00	6.34	2.11
NB-95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ZR-95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CS-134	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RU-103	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AG-110m	4.15	2.75	0.00	0.00	0.00	0.00	8.52	2.84
SB-125	1.37	0.60	0.00	0.00	0.00	0.00	2.99	1.00
I-131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CS-137	1.49	2.03	0.00	0.00	0.00	0.00	5.76	1.92
H-3	57.70	78.57	0.00	0.00	0.00	0.00	223.08	74.36
Ni-63	9.84	4.99	0.00	0.00	0.00	0.00	16.48	5.49
FE-55	20.85	9.33	0.00	0.00	0.00	0.00	34.93	11.64
SR-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TE-125m	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CS-136	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
XE-133	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-14	0.77	0.34	0.00	0.00	0.00	0.00	1.29	0.43
PU-241	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TRU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FE-59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB-124	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RU-106	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CE-144	0.04	0.15	0.00	0.00	0.00	0.00	0.36	0.12
TE-132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	100	100	0	0	0	0	300.0001	100.00
CLASS C	0	0	0	0	0	0	0	0
CLASS B	0	0	0	0	0	0	0	0
CLASS AS	0	0	0	0	0	0	0	0
CLASS AU	3	3	0	0	0	0	0	9
CURIES	1.036	0.9458	0	0	0	0	2.7468	
CU. FT.	622.2	622.2	0	0	0	0	1866.6	
CU M	17.61907	17.61907	0	0	0	0	52.85722	
RSR#	02-2074	02-2075	02-2076					

Oconee Nuclear Station Annual Report

OCONEE NUCLEAR STATION SOLID RADWASTE REPORT
 REPORT PERIOD: JANUARY - DECEMBER
 WASTE TYPE: BEAD RESIN

ISOTOPE	% ABUNDANCE/LINER	# OF LINERS SHIPPED TO CNSI		# OF SHIPMENTS TO CNSI		TOTAL	AVE.
		2	2	2	2		
CR-51	0.00	2.88	1.4415	0.00	0.00	0.00	2.88
MIN-54	1.30	0.22	0.7580	0.00	0.00	0.00	1.52
CO-57	0.00	0.00	0.0000	0.00	0.00	0.00	0.00
CO-58	14.51	33.15	23.8294	0.00	0.00	0.00	47.66
CO-60	5.03	4.36	4.6910	0.00	0.00	0.00	9.38
NB-95	0.00	0.87	0.4349	0.00	0.00	0.00	0.87
ZR-95	0.00	0.00	0.0000	0.00	0.00	0.00	0.00
CS-134	5.76	1.09	3.4250	0.00	0.00	0.00	6.85
RU-106	0.00	0.00	0.0000	0.00	0.00	0.00	0.00
AG-110m	0.00	6.38	3.1907	0.00	0.00	0.00	6.38
SB-125	0.00	3.02	1.5090	0.00	0.00	0.00	3.02
I-131	0.00	0.00	0.0000	0.00	0.00	0.00	0.00
CS-137	15.45	3.61	9.5321	0.00	0.00	0.00	19.06
H-3	0.02	0.00	0.0082	0.00	0.00	0.00	0.02
NI-63	45.18	31.76	76.94	0.00	0.00	0.00	76.94
FE-55	12.39	12.16	24.55	0.00	0.00	0.00	24.55
SR-90	0.32	0.01	0.1650	0.00	0.00	0.00	0.33
TE-125m	0.00	0.00	0.0000	0.00	0.00	0.00	0.00
CS-136	0.00	0.00	0.0000	0.00	0.00	0.00	0.00
XE-133	0.00	0.00	0.0000	0.00	0.00	0.00	0.00
C-14	0.00	0.13	0.0651	0.00	0.00	0.00	0.13
PU-241	0.05	0.33	0.1909	0.00	0.00	0.00	0.38
I-129	0.00	0.00	0.0000	0.00	0.00	0.00	0.00
TC-99	0.00	0.00	0.0000	0.00	0.00	0.00	0.00
CM-242	0.00	0.01	0.0039	0.00	0.00	0.00	0.01
AM-241	0.0007	0.0043	0.0025	0.00	0.00	0.00	0.01
PU-239/40	0.0006	0.0024	0.0015	0.00	0.00	0.00	0.00
PU-238	0.002	0.01	0.0036	0.00	0.00	0.00	0.01
CM-243/44	0.0006	0.01	0.0032	0.00	0.00	0.00	0.01
MO-95	0.00	0.00	0.0000	0.00	0.00	0.00	0.00
SB-124	0.00	0.00	0.0000	0.00	0.00	0.00	0.00
TOTAL	100.00	100.00	200.00	0.00	0.00	0.00	200.00
CLASS C	0	1	1	0	0	0	1
CLASS B	1	0	1	0	0	0	1
CLASS AS	0	0	0	0	0	0	0
CLASS AU	0	0	0	0	0	0	0
CURIES	84.83	267	111.53	0	0	0	111.53
CU FT	120.3	120.3	240.6	0	0	0	240.6
CU, M	3.41	3.41	6.81	0.00	0.00	0.00	6.81
RSR#	02-2010	02-2030					

Oconee Nuclear Station Annual Report

OCONEE NUCLEAR STATION SOLID RADWASTE REPORT
 REPORT PERIOD: JANUARY - DECEMBER
 WASTE TYPE: COMPACTED DAW (DURATEK)

OF SHIPMENTS FROM ONS TO DURATEK 8 # OF CONTAINERS FROM ONS TO DURATEK 16
 # OF SHIPMENTS FROM PROCESSOR TO ENVIROCORE 74 # OF CONTAINERS FROM PROCESSOR TO ENVIROCORE 74

RSR #	CU FT. SHIPPED	CURIES SHIPPED	CU FT. DISPOSAL FACILITY	CITD DISPOSAL FACILITY	COMPLETED
02-2006	2000	0.377	73.13	0.274	
01-2060	0	0.000	75.55	0.007	
01-2064	0	0.000	63.07	0.289	
01-2058	0	0.000	3.90	1.184	
02-2009	1800	0.281	123.82	0.266	
00-2056	0	0.000	0.07	0.00011	
01-2063	0	0.000	31.60	0.205	
01-2025	0	0.000	0.75	0.00029	
01-2027	0	0.000	36.91	0.143	
01-2029	0	0.000	8.94	0.131	
01-2030	0	0.000	12.15	0.304	
01-2057	0	0.000	0.23	0.00014	
01-2062	0	0.000	60.56	0.326	
02-2023	2000	0.428	143.38	0.427	
01-2007	0	0.000	3.89	0.023	
01-2043	0	0.000	5.10	0.001	
01-2002	0	0.000	0.14	0.006	
01-2067 METAL	0	0.000	0.30	0.00043	
02-2011 DAW/FILTERS	1907.77	0.208	27.81	0.194	
01-2024	0	0.000	15.28	0.0260674	
01-2049	0	0.000	0.47	0.001	
T021227 SEAMONS WESTI	0	0.000	312.44	0.003	
02-2015 METAL	0	0.000	0.67	0.153	
02-2039	1992.5	0.316	92.70	0.303	
02-2034	2000	0.453	123.78	0.454	
02-2043	2000	0.151	56.10	0.047	
02-2046	2000	0.604	12.30	0.034	
02-2059	2000	0.482	0.00	0.000	
02-2040	0	0.000	46.33	0.017	
02-2072	2000	0.545	0.00	0.000	
00-2043	0	0.000	1.50	0.001	
02-2029 METAL	0	0.000	0.01	0.00004	
	0	0.000	0.00	0.000	
TOTAL	19700.27	3.846	1332.89	4.81901	
TOTAL CURIES BURIED		4.819			
TOTAL CUBIC FEET BURIED		1332.89			
TOTAL CUBIC METERS		37.74			

Oconee Nuclear Station Annual Report

OCONEE NUCLEAR STATION SOLID RADWASTE REPORT
 REPORT PERIOD: JANUARY - DECEMBER
 WASTE TYPE: IRRADIATED COMPONENT

ISOTOPE	% ABUNDANCE/LINER	# OF CONTAINERS SHIPPED TO CNS/DURATEK	# OF SHIPMENTS TO CNS/DURATEK	TOTAL	AVE
CR-51	0.00	0.00	0.00	0.00	0.00
MN-54	0.00	0.00	0.00	0.00	0.00
CO-57	0.00	0.00	0.00	0.00	0.00
CO-58	0.00	0.00	0.00	0.00	0.00
CO-60	57.84	0.00	0.00	0.00	57.84
NB-95	0.00	0.00	0.00	0.00	0.00
ZR-95	0.00	0.00	0.00	0.00	0.00
CS-134	0.00002	0.00	0.00	0.00	0.00
RU-103	0.00	0.00	0.00	0.00	0.00
AG-110m	0.00	0.00	0.00	0.00	0.00
SB-125	0.00	0.00	0.00	0.00	0.00
I-131	0.00	0.00	0.00	0.00	0.00
CS-137	0.0005	0.00	0.00	0.00	0.00
H-3	0.00001	0.00	0.00	0.00	0.00
NI-63	34.53	0.00	0.00	0.00	34.53
FE-55	7.45	0.00	0.00	0.00	7.45
NI-59	0.19	0.00	0.00	0.00	0.19
TE-125m	0.00	0.00	0.00	0.00	0.00
CS-136	0.00	0.00	0.00	0.00	0.00
XE-133	0.00	0.00	0.00	0.00	0.00
C-14	0.00	0.00	0.00	0.00	0.00
PU-241	0.00	0.00	0.00	0.00	0.0000
TRU	0.00	0.00	0.00	0.00	0.00
FE-59	0.00	0.00	0.00	0.00	0.00
SB-124	0.00	0.00	0.00	0.00	0.00
RU-106	0.00	0.00	0.00	0.00	0.00
CE-144	0.00	0.00	0.00	0.00	0.00
TA-182	0.00	0.00	0.00	0.00	0.00
CM-242	0.00	0.00	0.00	0.00	0.0000
PU-238	0.00	0.00	0.00	0.00	0.0000
CM-243	0.00	0.00	0.00	0.00	0.0000
TOTAL	100.00	0.00	0.00	0.00	100.00
CLASS C	1	0	0	0	1
CLASS B	0	0	0	0	0
CLASS AS	0	0	0	0	0
CLASS AU	0	0	0	0	0
CURIES	9.010	0	0	0	9.010
CU, FT.	57.4	0	0	0	57.4
CU M	1.625418	0	0	0	1.6254
RSR#	02-2050				

OCONEE NUCLEAR STATION SOLID RADWASTE REPROCESSOR Nuclear Station Annual Report
 REPORT PERIOD: JANUARY - DECEMBER
 WASTE TYPE: PRIMARY FILTERS

ISOTOPE	# OF DRUMSLINERS TO CNSI				# OF SHIPMENTS TO CNSI				TOTAL	AVE.		
	1	2	3	4	1	2	3	4				
CR-51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000
MIN-54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000
CO-57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000
CO-58	0.00	28.01	19.25	32.03	0.00	0.00	0.00	0.00	0.00	0.00	79.2961	19.8240
CO-60	5.94	8.91	5.57	6.98	0.00	0.00	0.00	0.00	0.00	0.00	27.3998	6.8500
NB-94	0.00	0.00	0.00001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0001	0.0000
TC-99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000
CS-134	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000
RU-103	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000
AG-110m	0.00	1.27	1.04	1.22	0.00	0.00	0.00	0.00	0.00	0.00	3.5338	0.8835
SB-125	2.46	3.52	1.98	2.22	0.00	0.00	0.00	0.00	0.00	0.00	10.1816	2.5454
I-131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000
CS-137	7.52	5.10	5.55	5.74	0.00	0.00	0.00	0.00	0.00	0.00	23.9050	5.9763
H-3	1.14	1.18	0.81	0.66	0.00	0.00	0.00	0.00	0.00	0.00	3.7768	0.9442
NI-63	67.07	34.80	51.51	34.76	0.00	0.00	0.00	0.00	0.00	0.00	188.1522	47.0381
FE-55	15.24	16.61	13.81	15.66	0.00	0.00	0.00	0.00	0.00	0.00	61.3165	15.3291
SR-90	0.00	0.00	0.00040	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.0122	0.0031
TE-125m	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000
CS-136	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000
XE-133	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000
C-14	0.59	0.19	0.42	0.31	0.00	0.00	0.00	0.00	0.00	0.00	1.5076	0.3769
PU-241	0.00	0.37	0.01	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.7238	0.1810
PU-238	0.02	0.02	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.0627	0.0157
PU-239	0.01	0.01	0.0037	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.0200	0.0050
SB-124	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000
RU-106	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000
CE-144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000
NI-59	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0131	0.0033
CE-141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000
AM-241	0.00	0.01	0.0002	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.0132	0.0033
CM-242	0.00	0.01	0.0063	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.0257	0.0064
CM-243/44	0.02	0.02	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.0599	0.0150
TOTAL	100.00	100.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	399.9013	100.000
CLASS C	1	1	1	1	0	0	0	0	0	0	0	4
CLASS B	0	0	0	0	0	0	0	0	0	0	0	0
CLASS AS	0	0	0	0	0	0	0	0	0	0	0	0
CLASS AU	0	0	0	0	0	0	0	0	0	0	0	0
CURIES	20.9	13.16	17.4	28.219	0	0	0	0	0	0	79.679	
CU FT	120.3	92.67	88.88	120.3	0	0	0	0	0	0	422.15	
CU M	3.406581	2.624172	2.516849	3.406581	0	0	0	0	0	0	11.9542	
RSR#	02-2002	02-2005	02-2008	02-2033								

Oconee Nuclear Station Annual Report

OCONEE NUCLEAR STATION SOLID RADWASTE REPORT
 REPORT PERIOD: JANUARY - DECEMBER
 WASTE TYPE: SOLIDIFIED (CEMENT) OIL, ACIDS, SLUDGES

ISOTOPE.	% ABUNDANCE/LINER	# OF CONTAINERS SHIPPED	# OF SHIPMENTS	TOTAL AVE.
CR-51	0.00	0	0	#DIV/0!
MN-54	0.00	0	0	#DIV/0!
CO-57	0.00	0	0	#DIV/0!
CO-58	0.00	0	0	#DIV/0!
CO-60	0.00	0	0	#DIV/0!
NB-95	0.00	0	0	#DIV/0!
ZR-95	0.00	0	0	#DIV/0!
CS-134	0.00	0	0	#DIV/0!
RU-103	0.00	0	0	#DIV/0!
AG-110m	0.00	0	0	#DIV/0!
SB-125	0.00	0	0	#DIV/0!
I-131	0.00	0	0	#DIV/0!
CS-137	0.00	0	0	#DIV/0!
H-3	0.00	0	0	#DIV/0!
NI-63	0.00	0	0	#DIV/0!
FE-55	0.00	0	0	#DIV/0!
SR-90	0.00	0	0	#DIV/0!
TE-125m	0.00	0	0	#DIV/0!
CS-136	0.00	0	0	#DIV/0!
XE-133	0.00	0	0	#DIV/0!
C-14	0.00	0	0	#DIV/0!
PU-241	0.00	0	0	#DIV/0!
TRU	0.00	0	0	#DIV/0!
FE-59	0.00	0	0	#DIV/0!
SB-124	0.00	0	0	#DIV/0!
RU-106	0.00	0	0	#DIV/0!
CE-144	0.00	0	0	#DIV/0!
CM-242	0.00	0	0	#DIV/0!
TOTAL	0.00	0	0	#DIV/0!
CLASS C	0	0	0	0
CLASS B	0	0	0	0
CLASS AS	0	0	0	0
CLASS AU	0	0	0	0
CURIES	0	0	0	0
CU FT.	0	0	0	0
CU M	0	0	0	0
FSR#	0	0	0	0

Attachment 3

Oconee Nuclear Site

Inoperable Monitoring Equipment

OCONEE NUCLEAR SITE

There were no RADIOACTIVE GAS/LIQUID MONITORS inoperable for greater than 30 days.

Attachment 4

Oconee Nuclear Site

ODCM / PCP Manual Changes

