

R. A. JONES  
Vice President

Duke Power  
29672 / Oconee Nuclear Site  
7800 Rochester Highway  
Seneca, SC 29672

864 885 3158  
864 885 3564 fax

April 24, 2003

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

IE48

U. S. Nuclear Regulatory Commission  
April 24, 2003  
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	$\mu$ Ci/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	$\mu$ Ci/sec	2.01E-07	4.70E-11	0.00E+00	6.44E-07	2.12E-07
C. Particulates Half Life $\geq$ 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	$\mu$ Ci/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	$\mu$ Ci/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
-----	-----	-----	-----	-----	-----	-----
<b>A. Fission and Activation Products</b>						
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	µCi/ml	0.00E+00	0.00E+00	0.00E+00	3.79E-10	9.71E-11
b. Batch Releases	µCi/ml	9.72E-10	1.21E-09	5.70E-10	2.86E-09	1.41E-09
<b>B. Tritium</b>						
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	µCi/ml	6.49E-08	4.24E-08	5.31E-08	6.37E-08	5.60E-08
b. Batch Releases	µCi/ml	1.08E-05	9.42E-06	1.39E-05	1.82E-05	1.31E-05
<b>C. Dissolved and Entrained Gases</b>						
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	µCi/ml	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
b. Batch Releases	µCi/ml	1.09E-11	0.00E+00	2.88E-10	2.88E-11	8.26E-11
<b>D. Gross Alpha Radioactivity</b>						
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	µCi/ml	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
b. Batch Releases	µCi/ml	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>E. Volume of Liquid Waste</b>						
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
<b>F. Volume of Dilution Water</b>						
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                  | B. LIQUID EFFLUENTS - DOSE                       |
| 1. CALENDAR QUARTER - GAMMA DOSE = 15 MRAD | 1. CALENDAR QUARTER - TOTAL BODY DOSE = 4.5 MREM |
| 2. CALENDAR QUARTER - BETA DOSE = 30 MRAD  | 2. CALENDAR QUARTER - ORGAN DOSE = 15 MREM       |
| 3. CALENDAR YEAR - GAMMA DOSE = 30 MRAD    | 3. CALENDAR YEAR - TOTAL BODY DOSE = 9 MREM      |
| 4. CALENDAR YEAR - BETA DOSE = 60 MRAD     | 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

1<sup>st</sup> 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
----------------------------	----------	----------	----------

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

2<sup>nd</sup> 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
----------------------------	----------	----------	----------

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

3<sup>rd</sup> 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
----------------------------	----------	----------	----------

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

4<sup>th</sup> 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

1<sup>st</sup> 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

2<sup>ND</sup> 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

3<sup>rd</sup> 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

4<sup>th</sup> Quarter 2002

=== BATCH LIQUID RELEASES ===				Quarter 4 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

=== CONTINUOUS LIQUID RELEASES (CTP 3) ===				Quarter 4 2002 =====	
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)

OCONEE NUCLEAR STN. METEOROLOGY (2002) PROG=XOQFREQ  
 10M WIND SPEED/DIRECTION/DELTA-T STABILITY  
 STABILITY CLASSES BASED ON DELTA-T BETWEEN UPPER-LOWER LEVELS

14:10 Monday, February 24, 2003 1

## PASQUILL STABILITY A

	WIND SPEED CLASS										
	0.75-	1.00-	1.25-	1.50-	2.00-	3.00-	4.00-	5.00-	6.00-	>9.99	
	0.99	1.24	1.49	1.99	2.99	3.99	4.99	5.99	7.99	M/S	TOTAL
	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
SECTOR											
-N-	1	.	1	14	16	17	2	.	.	.	51
-NNE-	.	2	2	6	24	9	.	.	.	.	43
-NE-	.	1	3	.	28	20	3	1	.	.	56
-ENE-	.	1	2	9	38	21	5	.	.	.	76
-E-	.	.	1	4	15	3	.	.	.	.	23
-ESE-	.	.	2	5	9	.	.	.	.	.	16
-SE-	.	1	.	.	6	.	.	.	.	.	7
-SSE-	.	.	.	2	1	.	.	.	.	.	3
-S-	1	.	2	11	11	3	.	.	.	.	28
-SSW-	.	.	2	27	60	19	2	.	.	.	110
-SW-	.	.	4	44	141	30	3	3	2	.	227
-WSW-	.	.	3	23	76	10	4	2	.	.	118
-W-	.	.	2	16	12	3	1	.	.	.	34
-WNW-	.	.	5	15	8	2	2	8	10	.	50
-NW-	.	.	2	8	9	2	3	6	4	1	35
-NNW-	.	1	3	13	7	1	.	.	.	.	25
TOTAL	2	6	34	197	461	140	25	20	16	1	902

OCONEE NUCLEAR STN. METEOROLOGY (2002) PROG=XOQFREQ  
 10M WIND SPEED/DIRECTION/DELTA-T STABILITY  
 STABILITY CLASSES BASED ON DELTA-T BETWEEN UPPER-LOWER LEVELS

14:10 Monday, February 24, 2003 2

## PASQUILL STABILITY B

	WIND SPEED CLASS									
	0.75-	1.00-	1.25-	1.50-	2.00-	3.00-	4.00-	5.00-	6.00-	
	0.99	1.24	1.49	1.99	2.99	3.99	4.99	5.99	7.99	TOTAL
	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
SECTOR										
-N-	.	.	2	9	8	14	1	.	.	34
-NNE-	.	1	2	10	24	7	.	.	.	44
-NE-	1	1	1	9	25	11	7	.	.	55
-ENE-	.	.	.	5	21	9	4	.	.	39
-E-	.	.	.	5	8	.	.	.	.	13
-ESE-	.	1	1	2	4	.	.	.	.	8
-SE-	.	.	.	3	1	.	.	.	.	4
-SSE-	.	.	1	1	3	.	.	.	.	5
-S-	.	.	.	7	9	3	.	.	.	19
-SSW-	.	1	2	9	41	28	2	.	.	83
-SW-	.	3	4	26	36	12	8	1	.	90
-WSW-	.	2	5	10	11	3	1	1	1	34
-W-	.	1	4	3	1	1	2	.	.	12
-WNW-	.	.	6	2	3	.	2	5	11	29
-NW-	.	.	2	5	3	2	3	2	7	24
-NNW-	.	1	2	1	2	.	.	1	1	8
TOTAL	1	11	32	107	200	90	30	10	20	501

OCONEE NUCLEAR STN. METEOROLOGY (2002) PROG=XOQFREQ  
 10M WIND SPEED/DIRECTION/DELTA-T STABILITY  
 STABILITY CLASSES BASED ON DELTA-T BETWEEN UPPER-LOWER LEVELS

14:10 Monday, February 24, 2003 3

## PASQUILL STABILITY C

	WIND SPEED CLASS										
	0.75-	1.00-	1.25-	1.50-	2.00-	3.00-	4.00-	5.00-	6.00-	8.00-	
	0.99	1.24	1.49	1.99	2.99	3.99	4.99	5.99	7.99	9.99	TOTAL
	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	
SECTOR											
-N-	1	4	4	7	8	9	.	.	.	.	33
-NNE-	.	2	7	16	24	5	.	.	.	.	54
-NE-	.	.	4	18	20	8	5	1	.	.	56
-ENE-	.	.	3	10	26	10	3	.	.	.	52
-E-	.	.	.	1	14	.	.	.	.	.	15
-ESE-	2	.	.	3	9	.	.	.	.	.	14
-SE-	.	.	1	6	3	.	.	.	.	.	10
-SSE-	.	.	3	9	6	.	.	.	.	.	18
-S-	1	.	4	13	10	1	.	.	.	.	29
-SSW-	.	4	3	18	25	24	8	1	2	.	85
-SW-	.	2	17	17	16	21	9	3	4	.	89
-WSW-	.	3	7	19	8	1	4	3	3	1	49
-W-	.	2	7	2	2	2	3	.	6	1	25
-WNW-	2	4	1	7	1	1	4	7	4	1	32
-NW-	.	1	5	2	1	2	2	1	2	.	16
-NNW-	.	1	6	1	1	1	.	.	.	.	10
TOTAL	6	23	72	149	174	85	38	16	21	3	587



OCONEE NUCLEAR STN. METEOROLOGY (2002) PROG=XOQFREQ  
 10M WIND SPEED/DIRECTION/DELTA-T STABILITY  
 STABILITY CLASSES BASED ON DELTA-T BETWEEN UPPER-LOWER LEVELS

14:10 Monday, February 24, 2003 4

## PASQUILL STABILITY D

	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-	
	0.74	0.99	1.24	1.49	1.99	2.99	3.99	4.99	5.99	7.99	9.99	TOTAL
	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
SECTOR												
-N-	9	40	23	44	51	111	27	.	1	.	.	306
-NNE-	5	13	25	44	68	102	24	2	.	.	.	283
-NE-	2	16	17	23	91	144	63	13	1	.	.	370
-ENE-	2	9	20	38	83	172	79	9	.	.	.	412
-E-	7	8	17	16	49	65	9	.	.	1	.	172
-ESE-	4	7	14	21	26	12	3	.	.	.	.	87
-SE-	2	14	15	28	48	23	1	.	.	.	.	131
-SSE-	4	16	20	33	44	22	2	.	.	.	.	141
-S-	7	15	10	20	47	24	7	3	.	.	.	133
-SSW-	.	18	16	17	37	90	55	9	2	1	.	245
-SW-	6	15	17	32	43	85	63	64	27	18	.	370
-WSW-	2	13	32	29	42	45	35	48	24	24	3	297
-W-	6	20	18	18	26	33	30	19	6	10	2	188
-WNW-	8	24	23	26	9	29	22	24	20	8	2	195
-NW-	9	18	14	9	11	20	10	10	2	4	.	107
-NNW-	8	37	22	29	15	7	9	5	1	.	.	133
-CALM-	1	.	.	.	.	.	.	.	.	.	.	1
TOTAL	82	283	303	427	690	984	439	206	84	66	7	3571

OCONEE NUCLEAR STN. METEOROLOGY (2002) PROG=XOQFREQ  
 10M WIND SPEED/DIRECTION/DELTA-T STABILITY  
 STABILITY CLASSES BASED ON DELTA-T BETWEEN UPPER-LOWER LEVELS

14:10 Monday, February 24, 2003 5

PASQUILL STABILITY E

	WIND SPEED CLASS										
	0.45-	0.75-	1.00-	1.25-	1.50-	2.00-	3.00-	4.00-	5.00-	6.00-	
	0.74	0.99	1.24	1.49	1.99	2.99	3.99	4.99	5.99	7.99	TOTAL
	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	
SECTOR											
-N-	14	69	44	42	16	14	.	.	.	.	199
-NNE-	10	36	24	34	31	7	1	.	.	.	143
-NE-	3	20	23	32	24	8	1	.	.	.	111
-ENE-	1	26	26	33	27	17	.	.	.	.	130
-E-	7	18	26	15	26	11	.	.	.	.	103
-ESE-	8	15	20	26	31	4	.	.	.	.	104
-SE-	2	12	19	36	61	12	.	.	.	.	142
-SSE-	3	15	33	32	39	13	.	.	.	.	135
-S-	4	18	17	20	49	9	.	.	.	.	117
-SSW-	3	22	11	22	26	26	12	1	.	.	123
-SW-	6	22	16	19	35	43	17	11	1	4	174
-WSW-	9	27	25	9	11	22	13	11	3	.	130
-W-	15	51	23	12	14	6	4	4	2	.	131
-WNW-	22	62	39	25	13	8	6	.	.	.	175
-NW-	20	67	46	24	17	11	1	.	.	.	186
-NNW-	17	79	39	30	18	9	.	.	.	.	192
-CALM-	9	.	.	.	.	.	.	.	.	.	9
TOTAL	153	559	431	411	438	220	55	27	6	4	2304

OCONEE NUCLEAR STN. METEOROLOGY (2002) PROG=XOQFREQ  
 10M WIND SPEED/DIRECTION/DELTA-T STABILITY  
 STABILITY CLASSES BASED ON DELTA-T BETWEEN UPPER-LOWER LEVELS

14:10 Monday, February 24, 2003 6

## PASQUILL STABILITY F

	WIND SPEED CLASS							
	0.45-	0.75-	1.00-	1.25-	1.50-	2.00-	3.00-	
	0.74	0.99	1.24	1.49	1.99	2.99	3.99	TOTAL
	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
SECTOR								
-N-	2	4	.	.	1	.	.	7
-NNE-	1	8	2	1	1	.	.	13
-NE-	1	2	2	.	1	1	.	7
-ENE-	.	1	1	.	.	.	.	2
-E-	.	1	2	1	.	.	.	4
-ESE-	2	1	3	1	6	1	.	14
-SE-	.	.	1	7	1	1	.	10
-SSE-	.	.	.	1	1	.	.	2
-S-	.	1	.	2	.	.	.	3
-SSW-	.	2	2	2	.	.	.	6
-SW-	2	7	5	6	8	6	1	35
-WSW-	6	13	7	1	1	3	.	31
-W-	7	12	3	2	1	.	.	25
-WNW-	9	37	36	27	6	1	.	116
-NW-	6	27	32	38	11	2	.	116
-NNW-	5	8	2	.	1	.	.	16
-CALM-	2	.	.	.	.	.	.	2
TOTAL	43	124	98	89	39	15	1	409

OCONEE NUCLEAR STN. METEOROLOGY (2002) PROG=XOQFREQ  
 10M WIND SPEED/DIRECTION/DELTA-T STABILITY  
 STABILITY CLASSES BASED ON DELTA-T BETWEEN UPPER-LOWER LEVELS

14:10 Monday, February 24, 2003 7

## PASQUILL STABILITY G

	WIND SPEED CLASS					
	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.
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

OCONEE NUCLEAR STN. METEOROLOGY (2002) PROG=XOQFREQ  
 10M WIND SPEED/DIRECTION/DELTA-T STABILITY  
 STABILITY CLASSES BASED ON DELTA-T BETWEEN UPPER-LOWER LEVELS

14:10 Monday, February 24, 2003

## 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	TOTAL
	NO.	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	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	.	1	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	1	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

REPORT PERIOD: JANUARY - DECEMBER      YEAR:      2002

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

NOTE: (1) SHIPMENTS FROM DURATEK TO ENVIROCARE OF UTAH OR CNSI @ BARNWELL (DAW)  
(2) SHIPMENTS FROM DURATEK TO ENVIROCARE 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

		# OF LINERS SHIPPED TO ATG										# OF SHIPMENTS TO ATG											
		0										0											
		# OF LINERS SHIPPED TO ENVIROCARE										# OF SHIPMENTS TO ENVIROCARE										TOTAL	AVE
		9										3											
ISOTOPE	% ABUNDANCE/LINER																						
CR-51	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
CO-58	0 00	0 15	0 11	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 26	0 09
CO-60	3 79	1 69	0 86	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
AG-110m	4 15	2 75	1 62	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	8 52	2 84
SB-125	1 37	0 60	1 02	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
CS-137	1 49	2 03	2 24	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	5 76	1 92
H-3	57 70	78 57	86 81	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	223 08	74 36
NI-63	9 84	4 39	2 24	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	16 48	5 49
FE-55	20 85	9 33	4 75	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
C-14	0 77	0 34	0 18	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
CE-144	0 04	0 15	0 16	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
TOTAL	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300 0001	100 00
CLASS C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CLASS B	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0
CLASS AU	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9
CURIES	1 036	0 9458	0 765	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2 7468	
CU, FT.	622 2	622 2	622 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1866 6	
CU M	17 61907	17 61907	17 61907	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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

		# OF LINERS SHIPPED TO CNSI																		2		
		2																				
ISOTOPE	% ABUNDANCE/LINER			# OF SHIPMENTS TO CNSI																2	TOTAL	AVE.
CR-51	0 00	2.88	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	2 88	1.4415
MN-54	1 30	0 22	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	1.52	0.7580
CO-57	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 0000
CO-58	14 51	33.15	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	47.66	23 8294
CO-60	5 03	4 36	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	9 38	4 6910
NB-95	0 00	0 87	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 87	0 4349
ZR-95	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 0000
CS-134	5.76	1.09	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	6 85	3 4250
RU-106	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 0000
AG-110m	0 00	6 38	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	6 38	3.1907
SB-125	0 00	3 02	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	3 02	1 5090
I-131	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 0000
CS-137	15 45	3 61	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	19 06	9 5321
H-3	0 02	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 02	0 0082
NI-63	45 18	31 76	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	76 94	38 4724
FE-55	12.39	12 16	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	24.55	12 2726
SR-90	0 32	0 01	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 33	0.1650
TE-125m	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 0000
C-14	0 00	0 13	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 13	0 0651
PU-241	0 05	0 33	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 38	0 1909
I-129	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 0000
CM-242	0 00	0 01	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 01	0 0039
AM-241	0 0007	0 0043	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 01	0 0025
PU-239/40	0 0006	0 0024	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 0015
PU-238	0 002	0 01	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 01	0 0036
CM-243/44	0 0006	0 01	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 01	0 0032
MO-95	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 0000
SB-124	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 0000
<hr/>																						
TOTAL	100 00	100 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	200 00	100 00
<hr/>																						
CLASS C	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
CLASS B	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
CLASS AS	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	
<hr/>																						
CURIES	84.83	26 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111.53	
CU FT	120 3	120.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	240 6	
CU, M	3 41	3 41	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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 ENVIROCARE	74	# OF CONTAINERS FROM PROCESSOR TO ENVIROCARE	74

RSR #	CU FT. SHIPPED	CURIES SHIPPED	CU FT. DISPOSAL FACILITY	CU TO 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	
<hr/>					
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: UNCOMPACTED DAW

# OF SHIPMENTS FROM ONS TO CNSI	2
# OF CONTAINERS FROM ONS TO CNSI	2

<u>RSR</u>	<u>CUBIC</u>					
<u>NUMBER</u>	<u>FEET</u>	<u>CURIES</u>	<u>A-U</u>	<u>A-S</u>	<u>B</u>	<u>C</u>
02-2005	27 63	0 34	0	0	0	1
02-2008	31.42	30 32	0	0	0	1
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
TOTAL	59 05	30 66	0	0	0	2

TOTAL CUBIC METERS	1 67
--------------------	------

# Oconee Nuclear Station Annual Report

OCONEE NUCLEAR STATION SOLID RADWASTE REPORT  
REPORT PERIOD: JANUARY - DECEMBER  
WASTE TYPE: METAL (CNSI,DURATEK,ENVIROCORE)

# OF SHIPMENTS TO DECON FACILITY	6	# OF SHIPMENTS TO DISPOSAL FACILITY	22
# OF CONTAINERS TO DECON FACILITY	9	# OF CONTAINERS TO DISPOSAL FACILITY	22

RSR #	DECON/DISP. FACILITY	CU FT TO PROCESSOR	CURIES TO PROCESSOR	CU. FT. TO DISPOSAL FACILITY	CURIES TO DISPOSAL FACILITY	COMPLETED
01-2060	ENVIROCARE	0	0	8 48	0 002	
01-2058	ENVIROCARE	0	0	17.70	5 879	
02-2015	ENVIROCARE	1000	0 019	70 42	0 005	
02-2006	ENVIROCARE	0	0	54 70	0 055	
02-2029	ENVIROCARE	1265 6	0 137	6 49	0 001	
02-2009	ENVIROCARE	0	0	1 50	0 004	
00-2049	BARNWELL	0	0	16 60	0.109	
01-2067	ENVIROCARE	0	0	197.68	0 031	
02-2011	ENVIROCARE	0	0	16 00	0 011	
02-2035	ENVIROCARE	1000	0 0375	97 64	0 011	
01-2057	ENVIROCARE	0	0	82 31	0 011	
02-2040	ENVIROCARE	1244	0 059	81.32	0 020	
02-2050		1000	0 0413	0 00	0 000	
02-2071		2000	0.57	0 00	0.000	
01-2043		0	0	7.50	0 0001	
		0	0	0.00	0 000	
		0	0	0 00	0 000	
		0	0	0 00	0 000	
		0	0	0 00	0 000	
		0	0	0 00	0 000	
		0	0	0 00	0 000	
		0	0	0 00	0 000	
		0	0	0 00	0 000	
		0	0	0 00	0 000	
		0	0	0 00	0 000	
		0	0	0 00	0 000	
		0	0	0 00	0 000	
		0	0	0 00	0 000	
		0	0	0 00	0 000	
		0	0	0 00	0 000	
		0	0	0 00	0 000	
		0	0	0 00	0 000	
TOTAL		7509 6	0 8638	658 34	6 140	
		TOTAL CUBIC METERS	18 64239			

# Oconee Nuclear Station Annual Report

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

		# OF LINERS SHIPPED TO CNSI																			
		4																			
		# OF SHIPMENTS TO CNSI																		TOTAL	AVE
		4																			
ISOTOPE	% ABUNDANCE/LINER																				
CR 51	0 000	0 000	0 000	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 000	0 000
MN-54	1 232	0 000	0 065	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	1 297	0 324
CO-57	0 000	0 000	0 000	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 000	0 000
CO-58	18 403	43 403	20 147	10 48	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	92 430	23 108
CO-60	4 318	4 113	6 721	5 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	20 154	5 038
NB-95	0 000	0 000	0 000	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 000	0 000
ZR-95	0 000	0 000	0 000	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 000	0 000
CS-134	5 500	1 043	0 021	5 91	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	12 474	3 119
RU-103	0 000	0 000	0 000	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 000	0 000
AG-110m	0 000	5 256	15 702	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	20 960	5 240
SB-125	0 000	5 373	2 392	5 25	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	13 019	3 255
I-131	0 000	0 000	0 000	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 000	0 000
CS-137	20 695	9 519	3 135	23 76	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	57 106	14 277
H-3	0 000	0 000	0 000	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 000	0 000
Ni 63	38 740	16 292	26 661	32 61	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	114 300	28 575
FE-55	10 598	14 048	23 027	16 49	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	64 166	16 042
SR-90	0 429	0 013	0 004	0 36	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 807	0 202
TE-125m	0 000	0 000	0 000	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 000	0 000
CS-136	0 000	0 000	0 000	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 000	0 000
XE-133	0 000	0 000	0 000	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 000	0 000
C-14	0 000	0 368	0 601	0 07	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	1 037	0 259
PU-241	0 072	0 393	1 387	0 05	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	1 904	0 476
TRU	0 000	0 000	0 000	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 000	0 000
FE-59	0 000	0 000	0 000	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 000	0 000
U-234/238	0 000	0 000	0 000	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 000	0 000
TC-99	0 000	0 000	0 000	0 01	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 010	0 002
CE-144	0 000	0 000	0 000	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 000	0 000
PU-238	0 002	0 007	0 024	0 0017	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 034	0 008
PU-239/40	0 001	0 003	0 010	0 0008	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 015	0 004
AM 241	0 001	0 005	0 018	0 0007	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 025	0 006
CM-242	0 000	0 009	0 032	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 041	0 010
CM 243/44	0 001	0 007	0 025	0 0006	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 033	0 008
BA-133	0 000	0 000	0 000	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 000	0 000
CD-109	0 000	0 000	0 000	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 000	0 000
SN-113	0 000	0 000	0 000	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 000	0 000
SR 85	0 000	0 000	0 000	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 000	0 000
RU 106	0 000	0 000	0 000	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 000	0 000
CE-139	0 000	0 000	0 000	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 000	0 000
HG-203	0 000	0 000	0 000	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 000	0 000
ZN-65	0 000	0 000	0 000	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 000	0 000
SB-124	0 000	0 150	0 028	0 0008	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 179	0 045
TOTAL	99 99	100 00	100 00	100 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	399 99	100 00
CLASS C	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
CLASS B	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
CLASS AS	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0
CURIES	151 5	5 976	7 733	18 61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	183 82
CU FT	120 3	120 3	120 3	120 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	481 2
CU M	3 406581	3 406581	3 406581	3 406581	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13 626
RSR#	02-2001	02-2007	02-2031	02-2036																	

# Oconee Nuclear Station Annual Report

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

# OF CONTAINERS SHIPPED TO CNSI/DURATEK

1

ISOTOPE	% ABUNDANCE/LINER				# OF SHIPMENTS TO CNSI/DURATEK																TOTAL AVE			
CR-51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CO-58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CO-60	57.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.84	57.84
NB-95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CS-134	0.00002	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AG-110m	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SB-125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I-131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CS-137	0.0005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
H-3	0.00001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NI-63	34.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.53	34.53
FE-55	7.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.45	7.45
NI-59	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.19
TE-125m	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PU-241	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000
TRU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CE-144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TA-182	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CM-242	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000
PU-238	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000
CM-243	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000
TOTAL	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00
CLASS C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
CLASS B	0	0	0	0	0	0	0	0	0	0	0	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	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	0	0	0	0	0	0	0	0	0	0	0	
CURIES	9,010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9010	
CU, FT.	57.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57.4	
CU M	1.625418	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.6254	
RSR#	02-2060																							

OCONEE NUCLEAR STATION SOLID RADWASTE  
 REPORT PERIOD: JANUARY - DECEMBER  
 WASTE TYPE: PRIMARY FILTERS

																					# OF DRUMS/LINERS TO CNSI	4
																					# OF SHIPMENTS TO CNSI	4
ISOTOPE																					TOTAL	AVE.
CR-51	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0.0000	0.0000
MN-54	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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 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	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	27.3998	6.8500
NB-94	0 00	0 00	0 0001	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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 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 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 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	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	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 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	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	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 00	0 00	0 00	0 00	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 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 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 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	0 00	0 00	0 00	0 00	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 00	0 00	0 00	0 00	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 00	0 00	0 00	0 00	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 00	0 00	0 00	0 00	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 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 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 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 00	0 00	0 00	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 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 00	0 00	0 00	0 00	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 00	0 00	0 00	0 00	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 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 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	0	0	0	0	0	0	0	0	0	4	
CLASS B	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	
CLASS AU	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	79.679	
CU FT	120.3	92.67	88.88	120.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	422.15	
CU M	3.406581	2.624172	2.516849	3.406581	0	0	0	0	0	0	0	0	0	0	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: SECONDARY FILTERS

		# OF CONTAINERS SHIPPED TO DURATEK						2	# OF CONTAINERS SHIPPED TO CNSI / ENVIROCARE						2								
		# OF SHIPMENTS TO DURATEK						2	# OF SHIPMENTS TO CNSI / ENVIROCARE						2								
ISOTOPE.																						TOTAL	AVE
CR-51	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
CO-58	7 90	11 64	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	19 55	9 77	
CO-60	3 66	4 67	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	8 33	4 17	
NB-95	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
CS-134	0 00	1 47	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	1 47	0 73	
RU-103	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
AG-110m	5 39	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	5 39	2 69	
SB-125	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
I-131	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
CS-137	9 41	30 18	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	39 59	19 80	
H-3	36 45	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	36 45	18 22	
NI-63	14 35	48 34	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	62 68	31 34	
FE-55	21 40	3 15	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	24 55	12 27	
SR-90	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
C-14	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
PU-241	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
CE-144	1 44	0 56	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	2 00	1 00	
CM-243	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
PU-238	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
PU-239	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
AM-241	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
CM-242	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
<hr/>																							
TOTAL	100 00	100 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	200 00	100 00	
<hr/>																							
CLASS C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CLASS B	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	
CLASS AU	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
<hr/>																							
CURIES	0 001986	0 003745	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 005731		
CU FT.	12	2 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14 7		
CU M	0 3398	0 0765	0 0000	0 0000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 416266		
RSR#	02-2011	02-2039																					



## Oconee Nuclear Station Annual Report

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

# OF CONTAINERS SHIPPED 0

[illegible]

**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**

## OCONEE NUCLEAR SITE

PCP	There were no changes to the Duke Power Co PCP in 2002.
ODCM	The following revision was made to the Offsite Dose Calculation Manual (ODCM) during this reporting period and was transmitted to the Document Control Desk on January 1, 2003:  Revision 43 Oconee Nuclear Station