



Duke Energy

Oconee Nuclear Station
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Vice President

April 16, 2002

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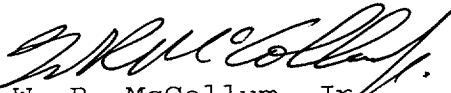
Subject: Oconee Nuclear Site
Docket Nos. 50-269, 50-270 and 50-287
Annual Effluent Release Report

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 Annual Radioactive Effluent Release Report for the 2001 calendar year.

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

Very truly yours,


W. R. McCollum, Jr.
Site Vice President
Oconee Nuclear Site

Attachments

IE48

U. S. Nuclear Regulatory Commission

April 16, 2002

Page 2

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Attachment 1

Oconee Nuclear Site

**Effluent Release Data
And Supplemental Information**

TABLE 1A

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
 PERIOD 1/1/01 TO 1/1/02
 GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

Oconee Nuclear Station Units 1, 2, & 3

REPORT FOR 2001	Unit	QTR 1	QTR 2	QTR 3	QTR 4	YEAR
A. Fission and Activation Gases						
1. Total Release	Ci	5.40E+00	4.02E+00	1.79E-01	2.49E+00	1.21E+01
2. Avg. Release Rate	µCi/sec	6.95E-01	5.11E-01	2.25E-02	3.13E-01	3.83E-01
B. Iodine-131						
1. Total Release	Ci	1.15E-05	6.08E-04	0.00E+00	2.10E-05	6.40E-04
2. Avg. Release Rate	µCi/sec	1.48E-06	7.73E-05	0.00E+00	2.65E-06	2.03E-05
C. Particulates Half Life >= 8 days						
1. Total Release	Ci	0.00E+00	2.38E-06	4.83E-06	5.53E-07	7.76E-06
2. Avg. Release Rate	µCi/sec	0.00E+00	3.03E-07	6.07E-07	6.96E-08	2.46E-07
D. Tritium						
1. Total Release	Ci	2.50E+01	1.76E+01	2.22E+01	8.50E+00	7.32E+01
2. Avg. Release Rate	µCi/sec	3.22E+00	2.23E+00	2.79E+00	1.07E+00	2.32E+00

TABLE 1B

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
 PERIOD 1/1/01 TO 1/1/02
 GASEOUS EFFLUENTS - ELEVATED RELEASES - CONTINUOUS MODE

Oconee Nuclear Station Units 1, 2, & 3

REPORT FOR 2001	Unit	QTR 1	QTR 2	QTR 3	QTR 4	YEAR
1. Fission and Activation Gases						
XE-133	Ci	8.72E-02	0.00E+00	0.00E+00	0.00E+00	8.72E-02
XE-135	Ci	0.00E+00	0.00E+00	6.84E-02	0.00E+00	6.84E-02
Totals for Period...	Ci	8.72E-02	0.00E+00	6.84E-02	0.00E+00	1.56E-01
2. Iodines						
I-131	Ci	1.14E-05	5.98E-04	0.00E+00	1.87E-05	6.28E-04
I-133	Ci	1.15E-05	7.77E-05	2.42E-05	1.06E-05	1.24E-04
Totals for Period...	Ci	2.29E-05	6.76E-04	2.42E-05	2.93E-05	7.52E-04
3. Particulates Half Life >= 8 days						
CS-137	Ci	0.00E+00	2.25E-06	2.65E-06	0.00E+00	4.91E-06
Totals for Period...	Ci	0.00E+00	2.25E-06	2.65E-06	0.00E+00	4.91E-06
4. Tritium						
H-3	Ci	2.14E+01	1.63E+01	2.08E+01	7.14E+00	6.56E+01
Totals for Period...	Ci	2.14E+01	1.63E+01	2.08E+01	7.14E+00	6.56E+01

TABLE 1B

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
 PERIOD 1/1/01 TO 1/1/02
 GASEOUS EFFLUENTS - ELEVATED RELEASES - BATCH MODE

Oconee Nuclear Station Units 1, 2, & 3

REPORT FOR 2001	Unit	QTR 1	QTR 2	QTR 3	QTR 4	YEAR
1. Fission and Activation Gases						
AR-41	Ci	6.65E-03	9.84E-03	1.92E-02	0.00E+00	3.57E-02
C-11	Ci	0.00E+00	1.59E-03	3.34E-04	0.00E+00	1.92E-03
KR-85	Ci	1.56E-01	1.85E-03	0.00E+00	2.45E-02	1.82E-01
XE-131M	Ci	5.66E-02	8.88E-02	7.53E-06	0.00E+00	1.45E-01
XE-133	Ci	4.98E+00	3.16E+00	8.43E-02	2.38E+00	1.06E+01
XE-133M	Ci	6.17E-02	2.87E-02	9.74E-04	1.54E-02	1.07E-01
XE-135	Ci	4.87E-02	1.70E-02	5.51E-03	7.10E-02	1.42E-01
Totals for Period...	Ci	5.31E+00	3.31E+00	1.10E-01	2.49E+00	1.12E+01
2. Iodines						
I-131	Ci	1.14E-07	3.64E-06	0.00E+00	7.92E-08	3.83E-06
I-133	Ci	0.00E+00	0.00E+00	0.00E+00	2.11E-07	2.11E-07
Totals for Period...	Ci	1.14E-07	3.64E-06	0.00E+00	2.90E-07	4.04E-06
3. Particulates Half Life >= 8 days						
CS-137	Ci	0.00E+00	2.00E-08	0.00E+00	1.30E-07	1.50E-07
Totals for Period...	Ci	0.00E+00	2.00E-08	0.00E+00	1.30E-07	1.50E-07
4. Tritium						
H-3	Ci	9.93E-03	1.15E-01	1.39E-02	1.19E-01	2.58E-01
Totals for Period...	Ci	9.93E-03	1.15E-01	1.39E-02	1.19E-01	2.58E-01

TABLE 1C

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
 PERIOD 1/1/01 TO 1/1/02
 GASEOUS EFFLUENTS - GROUND RELEASES - CONTINUOUS MODE

Oconee Nuclear Station Units 1, 2, & 3

REPORT FOR 2001	Unit	QTR 1	QTR 2	QTR 3	QTR 4	YEAR
1. Fission and Activation Gases						
XE-133	Ci	0.00E+00	6.43E-01	0.00E+00	0.00E+00	6.43E-01
Totals for Period...	Ci	0.00E+00	6.43E-01	0.00E+00	0.00E+00	6.43E-01
2. Iodines						
I-131	Ci	0.00E+00	6.02E-06	0.00E+00	8.91E-07	6.91E-06
I-133	Ci	0.00E+00	0.00E+00	0.00E+00	7.90E-07	7.90E-07
Totals for Period...	Ci	0.00E+00	6.02E-06	0.00E+00	1.68E-06	7.70E-06
3. Particulates Half Life >= 8 days						
CO-58	Ci	0.00E+00	0.00E+00	8.80E-07	0.00E+00	8.80E-07
CS-137	Ci	0.00E+00	1.11E-07	1.29E-06	0.00E+00	1.40E-06
Totals for Period...	Ci	0.00E+00	1.11E-07	2.17E-06	0.00E+00	2.28E-06
4. Tritium						
H-3	Ci	3.54E+00	1.20E+00	1.36E+00	1.25E+00	7.35E+00
Totals for Period...	Ci	3.54E+00	1.20E+00	1.36E+00	1.25E+00	7.35E+00

TABLE 1C

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
 PERIOD 1/1/01 TO 1/1/02
 GASEOUS EFFLUENTS - GROUND RELEASES - BATCH MODE

Oconee Nuclear Station Units 1, 2, & 3

REPORT FOR 2001	Unit	QTR 1	QTR 2	QTR 3	QTR 4	YEAR
1. Fission and Activation Gases						
XE-131M	Ci	0.00E+00	1.18E-03	0.00E+00	0.00E+00	1.18E-03
XE-133	Ci	0.00E+00	6.97E-02	0.00E+00	0.00E+00	6.97E-02
XE-133M	Ci	0.00E+00	6.12E-04	0.00E+00	0.00E+00	6.12E-04
XE-135	Ci	0.00E+00	3.54E-05	0.00E+00	0.00E+00	3.54E-05
Totals for Period...	Ci	0.00E+00	7.15E-02	0.00E+00	0.00E+00	7.15E-02
2. Iodines						
I-131	Ci	0.00E+00	0.00E+00	0.00E+00	1.39E-06	1.39E-06
Totals for Period...	Ci	0.00E+00	0.00E+00	0.00E+00	1.39E-06	1.39E-06
3. Particulates Half Life >= 8 days						
CS-137	Ci	0.00E+00	0.00E+00	0.00E+00	4.23E-07	4.23E-07
Totals for Period...	Ci	0.00E+00	0.00E+00	0.00E+00	4.23E-07	4.23E-07
4. Tritium						
H-3	Ci	0.00E+00	9.24E-06	0.00E+00	0.00E+00	9.24E-06
Totals for Period...	Ci	0.00E+00	9.24E-06	0.00E+00	0.00E+00	9.24E-06

TABLE 2A

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
PERIOD 1/1/01 TO 1/1/02
LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

Oconee Nuclear Station Units 1, 2, & 3

REPORT FOR 2001	Unit	QTR 1	QTR 2	QTR 3	QTR 4	YEAR
A. Fission and Activation Products						
1. Total Release	Ci	3.50E-02	6.61E-02	4.41E-02	3.49E-02	1.80E-01
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	2.10E-09	3.91E-09	2.58E-09	2.04E-09	2.66E-09
B. Tritium						
1. Total Release	Ci	4.69E+02	1.58E+02	1.74E+02	2.02E+02	1.00E+03
2. Average Diluted Concentration						
a. Continuous Releases	µCi/ml	1.49E-07	3.68E-08	6.22E-08	7.00E-08	7.91E-08
b. Batch Releases	µCi/ml	2.79E-05	9.33E-06	1.01E-05	1.17E-05	1.47E-05
C. Dissolved and Entrained Gases						
1. Total Release	Ci	4.42E-03	1.25E-02	4.25E-03	6.89E-04	2.19E-02
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	2.64E-10	7.42E-10	2.49E-10	4.03E-11	3.23E-10
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	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
E. Volume of Liquid Waste						
1. Continuous Releases	liters	4.01E+08	5.32E+08	3.65E+08	5.46E+08	1.84E+09
2. Batch Releases	liters	4.10E+06	5.59E+06	2.95E+06	4.63E+06	1.73E+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 1/1/01 TO 1/1/02
 LIQUID EFFLUENTS - CONTINUOUS MODE

Oconee Nuclear Station Units 1, 2, & 3

REPORT FOR 2001	Unit	QTR 1	QTR 2	QTR 3	QTR 4	YEAR
1. Fission and Activation Products						
** No Nuclide Activities **		.....	.....	.....	.....	.....
2. Tritium						
H-3	Ci	2.55E+00	6.41E-01	1.09E+00	1.24E+00	5.51E+00
Totals for Period...	Ci	2.55E+00	6.41E-01	1.09E+00	1.24E+00	5.51E+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 1/1/01 TO 1/1/02
LIQUID EFFLUENTS - BATCH MODE

Oconee Nuclear Station Units 1, 2, & 3

REPORT FOR 2001	Unit	QTR 1	QTR 2	QTR 3	QTR 4	YEAR
1. Fission and Activation Products						
AG-110M	Ci	8.66E-03	8.40E-03	5.44E-03	2.02E-03	2.45E-02
AS-76	Ci	0.00E+00	3.87E-04	0.00E+00	0.00E+00	3.87E-04
CE-143	Ci	0.00E+00	0.00E+00	0.00E+00	2.47E-05	2.47E-05
CO-57	Ci	1.40E-05	7.83E-05	6.56E-05	0.00E+00	1.58E-04
CO-58	Ci	1.75E-02	4.34E-02	2.62E-02	2.60E-02	1.13E-01
CO-60	Ci	1.16E-03	1.86E-03	8.85E-04	9.23E-04	4.83E-03
CR-51	Ci	8.06E-04	1.13E-03	7.92E-04	0.00E+00	2.73E-03
CS-134	Ci	5.85E-05	6.95E-05	3.68E-05	4.61E-05	2.11E-04
CS-136	Ci	8.52E-06	0.00E+00	0.00E+00	0.00E+00	8.52E-06
CS-137	Ci	7.75E-04	2.77E-03	1.03E-03	2.53E-03	7.11E-03
FE-59	Ci	0.00E+00	4.32E-05	0.00E+00	0.00E+00	4.32E-05
I-131	Ci	0.00E+00	1.71E-04	0.00E+00	6.29E-06	1.77E-04
I-132	Ci	0.00E+00	2.13E-05	0.00E+00	0.00E+00	2.13E-05
I-133	Ci	0.00E+00	0.00E+00	0.00E+00	1.83E-05	1.83E-05
MN-54	Ci	0.00E+00	2.25E-04	1.35E-05	3.45E-05	2.73E-04
NB-95	Ci	3.41E-04	1.44E-03	8.37E-04	2.17E-04	2.84E-03
RU-103	Ci	0.00E+00	1.04E-04	0.00E+00	0.00E+00	1.04E-04
RU-106	Ci	0.00E+00	0.00E+00	6.19E-05	0.00E+00	6.19E-05
SB-124	Ci	4.84E-04	1.82E-04	7.74E-05	0.00E+00	7.43E-04
SB-125	Ci	5.11E-03	4.87E-03	8.10E-03	3.09E-03	2.12E-02
TE-132	Ci	0.00E+00	3.64E-05	0.00E+00	0.00E+00	3.64E-05
ZN-69M	Ci	0.00E+00	0.00E+00	9.78E-06	0.00E+00	9.78E-06
ZR-95	Ci	9.86E-05	8.92E-04	5.36E-04	3.73E-05	1.56E-03
Totals for Period...	Ci	3.50E-02	6.61E-02	4.41E-02	3.49E-02	1.80E-01
2. Tritium						
H-3	Ci	4.66E+02	1.58E+02	1.73E+02	2.01E+02	9.98E+02
Totals for Period...	Ci	4.66E+02	1.58E+02	1.73E+02	2.01E+02	9.98E+02
3. Dissolved and Entrained Gases						
KR-85	Ci	0.00E+00	1.05E-02	4.16E-03	0.00E+00	1.46E-02
XE-131M	Ci	0.00E+00	4.84E-04	0.00E+00	5.29E-04	1.01E-03
XE-133	Ci	4.10E-03	1.47E-03	9.74E-05	1.60E-04	5.83E-03
XE-135	Ci	3.19E-04	1.10E-04	0.00E+00	0.00E+00	4.29E-04
Totals for Period...	Ci	4.42E-03	1.26E-02	4.26E-03	6.89E-04	2.19E-02
4. Gross Alpha Radioactivity						
** No Nuclide Activities **						

OCONEE NUCLEAR STATION
SUPPLEMENTAL INFORMATION

OCONEE NUCLEAR STATION

2001 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. 2.84E+02 = TOTAL NUMBER OF BATCH RELEASES
2. 4.10E+04 = TOTAL TIME (MIN.) FOR BATCH RELEASES.
3. 2.45E+02 = MAXIMUM TIME (MIN.) FOR A BATCH RELEASE.
4. 1.44E+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. 8.60E+01 = TOTAL NUMBER OF BATCH RELEASES.
2. 1.75E+05 = TOTAL TIME (MIN.) FOR BATCH RELEASES.
3. 4.53E+04 = MAXIMUM TIME (MIN.) FOR A BATCH RELEASE.
4. 2.03E+03 = AVERAGE TIME (MIN.) FOR A BATCH RELEASE.
5. 2.80E+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, 2001 through December 31, 2001)

There were no unplanned gaseous or liquid radioactivity releases to the environment in 2001.

OCONEE NUCLEAR STATION

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

(January 1, 2001 through December 31, 2001)

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 1/1/01 TO 1/1/02
 GASEOUS ANNUAL DOSE SUMMARY REPORT

Oconee Nuclear Station Units 1, 2, & 3

1st Quarter 2001

==== IODINE, H3, and PARTICULATE DOSE LIMIT ANALYSIS===== Quarter 1 2001 =====

Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Q1 - Maximum Organ Dose	CHILD	THYROID	8.43E-03	2.25E+01	3.75E-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	9.73E+01

==== NOBLE GAS DOSE LIMIT ANALYSIS===== Quarter 1 2001 =====

Period-Limit	Dose (mrad)	Limit (mrad)	% of Limit
Q1 - Maximum Gamma Air Dose	1.05E-04	1.50E+01	7.00E-04

Maximum Gamma Air Dose Receptor Location: 1.0 Mile SW

Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
XE-133	9.05E+01

Q1 - Maximum Beta Air Dose	3.14E-04	3.00E+01	1.05E-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	8.99E+01
KR-85	5.14E+00

**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
PERIOD 1/1/01 TO 1/1/02
GASEOUS ANNUAL DOSE SUMMARY REPORT**

Oconee Nuclear Station Units 1, 2, & 3

2nd Quarter 2001

=== IODINE, H3, and PARTICULATE DOSE LIMIT ANALYSIS=====				Quarter 2 2001	
Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Q2 - Maximum Organ Dose	INFANT	THYROID	1.75E-02	2.25E+01	7.78E-02

Maximum Organ Dose Receptor Location: 4.5 Mile NE
Critical Pathway: Goat Milk

Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
I-131	9.82E+01

=== NOBLE GAS DOSE LIMIT ANALYSIS=====				Quarter 2 2001	
Period-Limit		Dose (mrad)	Limit (mrad)	% of Limit	
Q2 - Maximum Gamma Air Dose		1.10E-04	1.50E+01	7.33E-04	

Maximum Gamma Air Dose Receptor Location: 1.0 Mile SSE

Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
XE-133	9.39E+01

Q2 - Maximum Beta Air Dose		3.16E-04	3.00E+01	1.05E-03	
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Maximum Beta Air Dose Receptor Location: 1.0 Mile SSE

Major Contributors (5% or greater to total)

Nuclide	Percentage
XE-133	9.67E+01

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
 PERIOD 1/1/01 TO 1/1/02
 GASEOUS ANNUAL DOSE SUMMARY REPORT

Oconee Nuclear Station Units 1, 2, & 3

3rd Quarter 2001

==== IODINE, H3, and PARTICULATE DOSE LIMIT ANALYSIS=====				Quarter 3 2001	
Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Q3 - Maximum Organ Dose	CHILD	LIVER	6.63E-03	2.25E+01	2.95E-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	9.91E+01

==== NOBLE GAS DOSE LIMIT ANALYSIS=====			Quarter 3 2001	
Period-Limit	Dose (mrad)	Limit (mrad)	% of Limit	Limit
Q3 - Maximum Gamma Air Dose	1.86E-05	1.50E+01	1.24E-04	

Maximum Gamma Air Dose Receptor Location: 1.0 Mile SW

Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
AR-41	5.09E+01
XE-135	4.05E+01
XE-133	8.50E+00

Q3 - Maximum Beta Air Dose	1.77E-05	3.00E+01	5.90E-05
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Maximum Beta Air Dose Receptor Location: 1.0 Mile SW

Major Contributors (5% or greater to total)

Nuclide	Percentage
XE-135	5.43E+01
XE-133	2.65E+01
AR-41	1.88E+01

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
 PERIOD 1/1/01 TO 1/1/02
 GASEOUS ANNUAL DOSE SUMMARY REPORT

Oconee Nuclear Station Units 1, 2, & 3

4th Quarter 2001

=== IODINE, H3, and PARTICULATE DOSE LIMIT ANALYSIS=====					Quarter 4 2001	
Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit	
Q4 - Maximum Organ Dose	CHILD	THYROID	3.24E-03	2.25E+01	1.44E-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	8.67E+01
I-131	1.30E+01

=== NOBLE GAS DOSE LIMIT ANALYSIS=====				Quarter 4 2001	
Period-Limit		Dose (mrad)	Limit (mrad)	% of Limit	
Q4 - Maximum Gamma Air Dose		5.20E-05	1.50E+01	3.47E-04	

Maximum Gamma Air Dose Receptor Location: 1.0 Mile SW

Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
XE-133	8.55E+01
XE-135	1.39E+01

Q4 - Maximum Beta Air Dose		1.45E-04	3.00E+01	4.83E-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	9.10E+01
XE-135	6.38E+00

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
 PERIOD 1/1/01 TO 1/1/02
 GASEOUS ANNUAL DOSE SUMMARY REPORT

Oconee Nuclear Station Units 1, 2, & 3

ANNUAL 2001

=== IODINE, H3, and PARTICULATE DOSE LIMIT ANALYSIS=====					Annual 2001 =====	
Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit	
Yr - Maximum Organ Dose	CHILD	THYROID	3.52E-02	4.50E+01	7.82E-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	6.49E+01
I-131	3.48E+01

=== NOBLE GAS DOSE LIMIT ANALYSIS=====				Annual 2001 =====	
Period-Limit	Dose (mrad)	Limit (mrad)	% of Limit		
Yr - Maximum Gamma Air Dose	2.75E-04	3.00E+01	9.17E-04		

Maximum Gamma Air Dose Receptor Location: 1.0 Mile SW

Major Isotopic Contributors (5% or greater to total)

Nuclide	Percentage
XE-133	8.46E+01
XE-135	7.80E+00
AR-41	6.39E+00

Yr - Maximum Beta Air Dose	7.62E-04	6.00E+01	1.27E-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	9.08E+01

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
 PERIOD 1/1/01 TO 1/1/02
 LIQUID ANNUAL DOSE SUMMARY REPORT

Oconee Nuclear Station Units 1, 2, & 3

1st Quarter 2001

=== BATCH LIQUID RELEASES ===				Quarter 1 2001 =====	
Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Q1 - Maximum Organ Dose	ADULT	GILLI	8.56E-02	1.50E+01	5.71E-01
Q1 - Total Body Dose	ADULT		5.33E-02	4.50E+00	1.18E+00

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

Nuclide	Percentage
NB-95	7.63E+01
H-3	1.60E+01

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

Nuclide	Percentage
CS-137	6.44E+01
H-3	2.57E+01
CS-134	8.22E+00

=== CONTINUOUS LIQUID RELEASES (CTP 3) ===				Quarter 1 2001 =====	
Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Q1 - Maximum Organ Dose	ADULT	LIVER	7.30E-05	1.50E+01	4.87E-04
Q1 - Total Body Dose	ADULT		7.30E-05	4.50E+00	1.62E-03

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 1/1/01 TO 1/1/02
 LIQUID ANNUAL DOSE SUMMARY REPORT

Oconee Nuclear Station Units 1, 2, & 3

2ND Quarter 2001

BATCH LIQUID RELEASES				Quarter 2 2001	
Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Q2 - Maximum Organ Dose	ADULT	GILLI	2.97E-01	1.50E+01	1.98E+00
Q2 - 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
NB-95	9.29E+01

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

Nuclide	Percentage
CS-137	9.14E+01

CONTINUOUS LIQUID RELEASES (CTP 3)				Quarter 2 2001	
Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Q2 - Maximum Organ Dose	ADULT	LIVER	1.82E-05	1.50E+01	1.21E-04
Q2 - Total Body Dose	ADULT		1.82E-05	4.50E+00	4.04E-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 1/1/01 TO 1/1/02
 LIQUID ANNUAL DOSE SUMMARY REPORT

Oconee Nuclear Station Units 1, 2, & 3

3rd Quarter 2001

=== BATCH LIQUID RELEASES ===				Quarter 3 2001	
Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Q3 - Maximum Organ Dose	ADULT	GILLI	1.74E-01	1.50E+01	1.16E+00
Q3 - Total Body Dose	ADULT		5.42E-02	4.50E+00	1.20E+00

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

Nuclide	Percentage
NB-95	9.21E+01

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

Nuclide	Percentage
CS-137	8.38E+01
H-3	9.35E+00
CS-134	5.08E+00

=== CONTINUOUS LIQUID RELEASES (CTP 3) ===				Quarter 3 2001	
Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Q3 - Maximum Organ Dose	ADULT	LIVER	3.12E-05	1.50E+01	2.08E-04
Q3 - Total Body Dose	ADULT		3.12E-05	4.50E+00	6.93E-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 1/1/01 TO 1/1/02
 LIQUID ANNUAL DOSE SUMMARY REPORT

Oconee Nuclear Station Units 1, 2, & 3

4th Quarter 2001

=== BATCH LIQUID RELEASES ===				Quarter 4 2001	
Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Q4 - Maximum Organ Dose	TEEN	LIVER	1.88E-01	1.50E+01	1.25E+00
Q4 - Total Body Dose	ADULT		1.22E-01	4.50E+00	2.71E+00

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

Nuclide	Percentage
CS-137	9.46E+01

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

Nuclide	Percentage
CS-137	9.16E+01

=== CONTINUOUS LIQUID RELEASES (CTP 3) ===				Quarter 4 2001	
Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Q4 - Maximum Organ Dose	ADULT	LIVER	3.51E-05	1.50E+01	2.34E-04
Q4 - Total Body Dose	ADULT		3.51E-05	4.50E+00	7.80E-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 1/1/01 TO 1/1/02
 LIQUID ANNUAL DOSE SUMMARY REPORT

Oconee Nuclear Station Units 1, 2, & 3

ANNUAL 2001

=== BATCH LIQUID RELEASES ===				Annual 2001	
Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Yr - Maximum Organ Dose	ADULT	GILLI	6.14E-01	3.00E+01	2.05E+00
Yr - Total Body Dose	ADULT		3.64E-01	9.00E+00	4.04E+00

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

Nuclide	Percentage
NB-95	8.84E+01

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

Nuclide	Percentage
CS-137	8.64E+01
H-3	8.04E+00

=== CONTINUOUS LIQUID RELEASES (CTP 3) ===				Annual 2001	
Period-Limit	Critical Age	Critical Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Yr - Maximum Organ Dose	ADULT	LIVER	1.57E-04	3.00E+01	5.23E-04
Yr - Total Body Dose	ADULT		1.57E-04	9.00E+00	1.74E-03

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

Oconee Nuclear Station
2001 Radioactive Effluent Releases
40CFR190 Uranium Fuel Cycle Dose* Calculation Results

Maximum Total Body Dose = 3.80E-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 = 3.64E-01 mrem = 96% of total

Critical Path = Fish
Major Contributors = Cs-137 (86.4%)
H-3 (8.0%)

Gas Effluent Dose = 1.57E-02 mrem = 4% of total

Critical Path = Vegetable
Major Contributor = H-3 (99.6%)

Maximum Organ Dose = 6.30E-01 mrem

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

Liquid and Gas Effluent Contribution to Maximum Organ Dose

Liquid Effluent Dose = 6.14E-01 mrem = 98% of total

Critical Path = Fish
Major Contributors = Nb-95 (88.4%)

Gas Effluent Dose = 1.57E-02 mrem = 2% of total

Critical Path = Vegetable
Major Contributors = H-3 (99.7%)

* 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
2001 METEOROLOGICAL JOINT FREQUENCY DISTRIBUTIONS
OF WIND SPEED, WIND DIRECTION, AND ATMOSPHERIC
STABILITY
USING WINDS AT THE 10 METER LEVEL
(Hours of Occurrence)

PASQUILL STABILITY A

SECTOR	WIND SPEED CLASS										TOTAL
	0.75- 0.99	1.00- 1.24	1.25- 1.49	1.50- 1.99	2.00- 2.99	3.00- 3.99	4.00- 4.99	5.00- 5.99	6.00- 7.99	8.00- 9.99	
	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	
-N-	1	1	.	3	4	.	.	.	.	.	9
-NNE-	.	2	.	2	6	1	1	.	.	.	12
-NE-	.	2	.	1	9	11	3	1	2	.	29
-ENE-	.	1	2	2	16	22	5	.	1	.	49
-E-	.	.	.	4	8	2	.	.	.	.	14
-ESE-	.	1	.	.	.	1	.	.	.	.	2
-SE-	.	1	.	.	.	.	.	.	.	.	1
-SSE-	.	.	1	1	1	.	.	.	.	.	3
-S-	.	.	1	.	6	.	.	.	.	.	7
-SSW-	.	.	.	7	58	32	8	.	.	.	105
-SW-	.	.	6	45	134	42	5	5	.	.	237
-WSW-	1	.	2	9	31	5	3	1	1	.	53
-W-	1	1	1	5	5	2	1	.	1	.	17
-WNW-	.	1	.	5	9	4	4	1	1	2	27
-NW-	.	.	1	6	2	1	3	1	4	.	18
-NNW-	.	1	1	4	2	4	.	2	.	.	14
TOTAL	3	11	15	94	291	127	33	11	10	2	597

PASQUILL STABILITY B

SECTOR	WIND SPEED CLASS									TOTAL
	0.75- 0.99	1.00- 1.24	1.25- 1.49	1.50- 1.99	2.00- 2.99	3.00- 3.99	4.00- 4.99	5.00- 5.99	6.00- 7.99	
	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	
-N-	.	1	2	2	1	.	.	.	.	6
-NNE-	1	.	.	7	6	.	.	.	.	14
-NE-	.	.	1	5	8	1	4	2	.	21
-ENE-	.	.	1	5	16	7	5	2	.	36
-E-	.	.	.	.	11	6	.	.	.	17
-ESE-	1	2	.	1	3	.	.	.	.	7
-SE-	.	.	.	1	2	.	.	.	.	3
-SSE-	.	.	.	1	5	.	.	.	.	6
-S-	.	.	1	5	6	.	.	.	.	12
-SSW-	.	1	1	20	38	27	3	.	.	90
-SW-	.	1	1	35	45	19	15	1	.	117
-WSW-	1	.	1	14	18	3	7	2	1	47
-W-	2	.	1	11	3	.	2	.	.	19
-WNW-	.	.	1	8	3	1	2	1	2	18
-NW-	.	.	1	7	4	1	1	3	1	18
-NNW-	.	.	3	3	.	.	1	.	.	7
TOTAL	5	5	14	125	169	65	40	11	4	438

PASQUILL STABILITY C

SECTOR	WIND SPEED CLASS											TOTAL
	0.75- 0.99	1.00- 1.24	1.25- 1.49	1.50- 1.99	2.00- 2.99	3.00- 3.99	4.00- 4.99	5.00- 5.99	6.00- 7.99	8.00- 9.99	>9.99 M/S	
	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	
-N-	.	1	5	14	3	1	.	.	.	.	.	24
-NNE-	.	1	3	13	9	1	.	.	.	.	.	27
-NE-	.	.	2	6	21	8	1	1	.	.	.	39
-ENE-	.	.	3	10	24	11	3	.	.	.	.	51
-E-	.	.	.	8	16	1	.	.	.	.	.	25
-ESE-	.	1	1	5	6	1	.	.	.	.	.	14
-SE-	.	.	1	4	2	.	.	.	.	.	.	7
-SSE-	1	.	1	2	2	.	.	.	.	.	.	6
-S-	1	2	.	6	5	.	.	.	.	.	.	14
-SSW-	.	.	7	17	40	30	2	.	.	.	.	96
-SW-	.	2	6	35	33	16	10	1	1	.	.	104
-WSW-	.	1	3	20	10	6	4	3	2	.	.	49
-W-	1	4	5	12	6	1	2	1	1	.	.	33
-WNW-	1	1	3	7	1	1	2	1	8	1	1	27
-NW-	.	2	5	6	1	5	2	2	2	1	.	26
-NNW-	.	.	4	3	2	2	.	.	.	.	.	11
TOTAL	4	15	49	168	181	84	26	9	14	2	1	553

PASQUILL STABILITY D

SECTOR	WIND SPEED CLASS													TOTAL
	0.45- 0.74	0.75- 0.99	1.00- 1.24	1.25- 1.49	1.50- 1.99	2.00- 2.99	3.00- 3.99	4.00- 4.99	5.00- 5.99	6.00- 7.99	8.00- 9.99	>9.99 M/S		
	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	
-N-	6	25	25	41	34	26	6	2						165
-NNE-	1	9	14	32	59	36	9	1						161
-NE-	4	8	18	26	96	139	34	9	3	2	1	1		341
-ENE-	4	9	12	35	98	127	42	12	3	2				344
-E-	4	8	15	20	86	44	2							179
-ESE-	3	7	7	17	32	16								82
-SE-	6	10	9	18	45	26	1							115
-SSE-	4	11	12	20	47	11								105
-S-	4	8	10	20	45	26	3							116
-SSW-	3	17	13	26	45	110	92	34	5					345
-SW-	3	19	20	39	74	132	95	62	20	8				472
-WSW-	2	24	37	42	44	56	50	45	20	21	3			344
-W-	5	20	33	41	31	25	23	20	10	7	2			217
-WNW-	8	28	28	19	18	17	36	30	17	14	2			217
-NW-	7	26	25	11	5	16	12	15	10	7	3			137
-NNW-	4	27	33	37	22	23	6	4	1					157
-CALM-	3													3
TOTAL	71	256	311	444	781	830	411	234	89	61	11	1		3500

PASQUILL STABILITY E

SECTOR	WIND SPEED CLASS										TOTAL
	0.45- 0.74	0.75- 0.99	1.00- 1.24	1.25- 1.49	1.50- 1.99	2.00- 2.99	3.00- 3.99	4.00- 4.99	5.00- 5.99	6.00- 7.99	
	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	
-N-	19	85	55	41	19	6	2	.	.	.	227
-NNE-	9	30	31	48	13	4	1	.	.	.	136
-NE-	8	21	23	33	47	28	3	.	.	.	163
-ENE-	8	26	26	43	47	14	2	.	.	.	166
-E-	3	18	31	34	43	17	.	.	.	.	146
-ESE-	3	11	20	37	32	12	.	.	.	.	115
-SE-	5	19	17	21	26	16	.	.	.	.	104
-SSE-	5	11	17	19	65	19	.	.	.	.	136
-S-	3	15	15	24	29	11	.	.	.	.	97
-SSW-	6	25	22	27	34	26	9	3	.	.	152
-SW-	9	27	33	28	44	48	32	9	2	1	233
-WSW-	15	53	25	28	20	24	22	15	4	.	206
-W-	14	55	38	10	12	17	14	5	.	.	165
-WNW-	28	91	76	30	7	11	4	2	.	.	249
-NW-	20	100	73	42	11	8	1	.	.	.	255
-NNW-	26	94	76	44	11	5	2	.	.	.	258
-CALM-	15	.	.	.	.	.	.	.	.	.	15
TOTAL	196	681	578	509	460	266	92	34	6	1	2823

PASQUILL STABILITY F

SECTOR	WIND SPEED CLASS								TOTAL
	0.45- 0.74	0.75- 0.99	1.00- 1.24	1.25- 1.49	1.50- 1.99	2.00- 2.99	3.00- 3.99	4.00- 4.99	
	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	
-N-	3	3	2	1	.	.	.	.	9
-NNE-	.	4	4	1	.	.	.	.	9
-NE-	.	.	2	1	1	.	.	.	4
-ENE-	.	2	2	2	.	.	.	.	6
-E-	.	3	.	3	2	.	.	.	8
-ESE-	.	2	3	3	6	1	.	.	15
-SE-	.	1	.	.	3	1	.	.	5
-SSE-	.	.	4	1	3	.	.	.	8
-S-	1	1	.	1	.	.	.	.	3
-SSW-	2	2	1	1	2	1	.	.	9
-SW-	5	6	3	3	3	4	4	.	28
-WSW-	4	8	3	3	.	4	4	1	27
-W-	6	23	15	2	1	1	.	.	48
-WNW-	14	60	63	28	2	1	.	.	168
-NW-	5	33	56	46	4	2	.	.	146
-NNW-	3	14	7	2	.	.	.	.	26
-CALM-	2	.	.	.	.	.	.	.	2
TOTAL	45	162	165	98	27	15	8	1	521

PASQUILL STABILITY G

SECTOR	WIND SPEED CLASS								TOTAL
	0.45- 0.74	0.75- 0.99	1.00- 1.24	1.25- 1.49	1.50- 1.99	2.00- 2.99	3.00- 3.99	>9.99 M/S	
	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	
-N-	.	1	.	.	.	.	.	.	1
-NNE-	1	2	1	.	.	.	.	.	4
-NE-	.	.	1	.	.	.	.	.	1
-ENE-	1	.	.	.	.	.	.	.	1
-E-	1	.	.	.	1	.	.	1	3
-ESE-	.	.	.	.	.	.	.	1	1
-S-	1	2	.	.	.	.	.	.	3
-SSW-	1	1	.	.	.	.	.	.	2
-SW-	.	.	2	1	1	3	1	.	8
-WSW-	1	6	.	.	.	.	.	.	7
-W-	4	6	6	3	.	.	.	.	19
-WNW-	4	18	15	17	2	.	.	.	56
-NW-	3	5	4	5	1	.	.	.	18
-NNW-	.	1	.	1	.	.	.	.	2
TOTAL	17	42	29	27	5	3	1	2	126

ALL STABILITY CLASSES

SECTOR	WIND SPEED CLASS													TOTAL
	0.45- 0.74	0.75- 0.99	1.00- 1.24	1.25- 1.49	1.50- 1.99	2.00- 2.99	3.00- 3.99	4.00- 4.99	5.00- 5.99	6.00- 7.99	8.00- 9.99	>9.99 M/S		
	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	
-N-	28	115	85	90	72	40	9	2	.	.	.	.	441
-NNE-	11	46	53	84	94	61	12	2	.	.	.	.	363
-NE-	12	29	46	63	156	205	57	17	7	4	1	1	598	
-ENE-	13	37	41	86	162	197	84	25	5	3	.	.	653	
-E-	8	29	46	57	144	96	11	.	.	.	.	1	392
-ESE-	6	21	34	58	76	38	2	.	.	.	.	1	236
-SE-	11	30	27	40	79	47	1	.	.	.	.	.	235
-SSE-	9	23	33	42	119	38	.	.	.	.	.	.	264
-S-	9	27	27	47	85	54	3	.	.	.	.	.	252
-SSW-	12	45	37	62	125	273	190	50	5	.	.	.	799	
-SW-	17	52	61	84	237	399	209	101	29	10	.	.	1199	
-WSW-	22	93	66	79	107	143	90	75	30	25	3	.	733	
-W-	29	108	97	63	72	57	40	30	11	9	2	.	518	
-WNW-	54	198	184	98	49	42	46	40	20	25	5	1	762	
-NW-	35	164	160	111	40	33	20	21	16	14	4	.	618	
-NNW-	33	136	117	92	43	32	14	5	3	.	.	.	475	
-CALM-	20	.	.	.	.	.	.	.	.	.	.	.	20
TOTAL	329	1153	1114	1156	1660	1755	788	368	126	90	15	4	8558	

Attachment 2

Oconee Nuclear Site

Solid Waste Disposal Report

OCONEE NUCLEAR STATION ANNUAL RADWASTE REPORT

2/20/2002

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

REPORT PERIOD: JANUARY - DECEMBER YEAR: 2001

TYPES OF WASTE SHIPPED	NUMBER OF SHIPMENTS	NUMBER OF CONTAINERS	WASTE CLASS				CONTAINER TYPE	BURIAL VOLUME		TOTAL ACTIVITY CURIES
			A-U	A-S	B	C		CU. FT.	CU. M.	
1) WASTE FROM LIQUID SYSTEM										
(A) DEWATERED POWDEX RESIN	6	6	4	0	0	0	STC	936.85	26.53	1.22
(B) DEWATERED BEAD RESIN	1	1	0	0	1	0	TYPE A/B	120.3	3.41	95.40
(C) EVAPORATOR CONCENTRATES	0	0	0	0	0	0		0	0.00	0.00
(D) DEWATERED MECHANICAL FILTERS	2	2	0	0	1	1	TYPE A/B	240.6	6.81	21.93
1. PRIMARY FILTER MEDIA	0	0	0	0	0	0	STC	0	0.00	0.00
2. SECONDARY FILTER MEDIA	0	0	0	0	0	0				
(E) DEWATERED DEMINERALIZERS	3	3	0	0	3	0	TYPE A	360.9	10.22	67.29
(F) SOLIDIFIED (CEMENT) OIL, ACIDS, SLUDGES	0	0	0	0	0	0	STC	0	0.00	0.00
2) DRY SOLID WASTE										
(A) DRY ACTIVE WASTE (COMPACTED)	(1) 72	72	72	0	0	0	STC	1516.3	42.94	38.54
	(2) 33	33	33	0	0	0	STC	983.007	27.84	1.03
(B) DRY ACTIVE WASTE (NON-COMPACTED)	2	6	0	0	1	5	TYPE A	172.2	4.88	105.50
(C) DRY ACTIVE WASTE (BROKERED)	0	0	0	0	0	0		0	0.00	0.00
(D) IRRADIATED COMPONENTS	6	6	0	6	0	0	TYPE A	148.39	4.20	30.74
TOTAL	125	129	109	6	6	6		4478.51	126.82	361.65

NOTE: (1) SHIPMENTS FROM DURATEK TO ENVIROCARE IN UTAH (DAW)
(2) SHIPMENTS FROM METAL DECON FACILITY TO ENVIROCARE IN UTAH

Oconee Nuclear Station Annual Report

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

ISOTOPE	ABUNDANCE				# OF LINERS SHIPPED TO ATG						# OF SHIPMENTS TO ATG						TOTAL	AVE.			
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
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
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
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
CO-58	2.15	0.00	9.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.92	5.95
CO-60	2.42	0.00	2.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.59	2.30
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
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
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
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
AG-110m	5.50	0.00	6.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.23	6.12
SB-125	0.68	0.00	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.05	1.03
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
CS-137	3.24	0.00	1.95	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	5.18	2.59
H-3	13.71	0.00	13.88	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	27.59	13.80
NI-63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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-55	70.64	0.00	63.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	134.10	67.05
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
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
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
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
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
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
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
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
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
RU-106	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	0.56	0.28
CE-144	1.11	0.00	0.67	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	1.78	0.89
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
TOTAL	100	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200.0001	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
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	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
CURIES	0	0.0105	0.6911	0.0518	0.465	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.21831
CU FT.	0	13.5	505.8	236.5	181.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	936.85
CU M	0	0.3823	14.323	6.6971	5.1269	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26.52914
RSR#	01-2009 99-2044 01-2046 00-2035 00-2053																				

Oconee Nuclear Station Annual Report

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

OF CONTAINERS SHIPPED TO CNS/DURATEK 6
 # OF SHIPMENTS TO CNS/DURATEK 6

ISOTOPE:	% ABUNDANCE/LINER																		TOTAL	AVERAGE	
CR-51	31.02	30.39	29.85	8.88	9.07	8.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	117.91	19.65
MN-54	2.35	2.36	2.37	2.90	2.90	2.90	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	15.77	2.63
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
CO-58	5.62	5.86	5.85	4.46	4.50	4.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.73	5.12
CO-60	25.55	25.72	26.00	35.44	35.35	35.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	183.61	30.60
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
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
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
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
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
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
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
CS-137	0.00	0.00	0.00	4.5E-12	4.5E-12	4.5E-12	0.00	0.00	0.00	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	0.02	0.02	0.02	0.02	0.02	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	0.12	0.02
Ni-63	2.35	2.36	2.39	3.33	3.32	3.34	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	17.09	2.85
FE-55	33.08	33.26	33.51	44.93	44.81	45.03	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	234.61	39.10
Ni-59	0.02	0.02	0.02	0.03	0.03	0.03	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	0.16	0.03
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
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
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
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
PU-241	0.0010	0.0010	0.0010	0.0013	0.0013	0.0013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0089	0.0012
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
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
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
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
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
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
CM-242	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0012	0.0002
PU-238	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.00	0.00	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.00	0.00	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	100.00	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	600.00	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
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	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
CLASS AU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CURIES	5.824	5.538	6.174	4.31	3.079	5.815	0	0	0	0	0	0	0	0	0	0	0	0	0	30.74	
CU, FT.	25.08	22.99	25.08	25.08	25.08	25.08	0	0	0	0	0	0	0	0	0	0	0	0	0	148.39	
CU, M	0.7102	0.651	0.7102	0.7102	0.7102	0.7102	0	0	0	0	0	0	0	0	0	0	0	0	0	4.202	
RSR#	01-2011	01-2012	01-2013	01-2051	01-2050	01-2052	01-2058*	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NOTE: * SHIPMENT MADE TO DURATEK. SHIPMENT HAS NOT BEEN PROCESSED.

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

OF DRUMS/LINERS TO CNSI 2

OF SHIPMENTS TO CNSI 2

ISOTOPE:	% ABUNDANCE/LINER																TOTAL	AVERAGE	
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
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
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
CO-58	77.83	73.89	0.00	0.00	0.00	0.00	0.00	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	1.48	1.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	151.72	75.861
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
TC-89	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
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
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
AG-110m	1.30	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	2.52	1.281
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
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
CS-137	1.49	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.91	1.453
H-3	0.01	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.120
NI-63	12.77	15.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.73	14.564
FE-55	4.98	5.03	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	10.01	5.003
SR-90	0.00	0.0041	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.002
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	0.000
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	0.000
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	0.000
C-14	0.11	0.14	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	0.25	0.124
PU-241	0.00	0.09	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	0.000
PU-238	0.0035	0.0058	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.005
PU-239	0.0010	0.0018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.001
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	0.000
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	0.000
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	0.000
NI-59	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
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	0.000
AM-241	0.00	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	0.000
CM-242	0.01	0.0090	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.009
CM-243/44	0.003	0.0038	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.003
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	199.88	99.95
CLASS C	0	1	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	1
CLASS AS	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
CURIES	7.452	14.48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21.932
CU. FT.	120.3	120.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	240.6
CU. M	3.406581	3.406581	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.8132
RSR#	01-2005	01-2016																	

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/ENVIROCORE 0
 # OF SHIPMENTS TO DURATEK 1 # OF SHIPMENTS TO CNSI/ENVIROCORE 0

ISOTOPE:	% ABUNDANCE/LINER																TOTAL	AVERAGE	
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
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
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
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
CO-60	4.13	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	4.13	4.13
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
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
CS-134	9.45	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	9.45	9.45
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
AG-110m	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.42	1.42
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
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
CS-137	69.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.93	69.93
H-3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	5.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.82	5.82
FE-55	8.75	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	8.75	8.75
SR-90	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	0.19	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
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
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
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
PU-241	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.28
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
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
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
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
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
CM-243	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	0.01	0.01
PU-238	0.0047	0.00	0.00	0.00	0.00	0.00	0.00	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	0.0036	0.00	0.00	0.00	0.00	0.00	0.00	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	0.0059	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
CM-242	0.0039	0.00	0.00	0.00	0.00	0.00	0.00	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 100.00 0.00 0.00 0.00 0.00 0.00 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	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
CLASS AS	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

CURES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CU. FT.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CU. M	0.0000	0.0000	0.0000	0.0000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSR#	01-2029																		

	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL FT3	TOTAL Cm	
DAW															
CNSI - SHIP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.30	0.00	0.00	114.90	0.00	172.20	4.88
CNSI - BURIAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.30	0.00	0.00	114.90	0.00	172.20	4.88	
GTS - SHIP	2,000.00	0.00	2,000.00	2,000.00	3,985.00	0.00	3,000.00	0.00	0.00	2,000.00	3,900.00	3,000.00	21,885.00	619.73	
GTS - SHIP (NORMAL)											30,429.00	10,195.00		40,624.00	TOTAL POUNDS
GTS - SHIP (OUT OF NORM)											811.00	0.00		811.00	TOTAL POUNDS
GTS - BURIAL	393.71	57.04	121.29	20.80	61.33	108.02	53.31	150.37	160.52	55.46	48.59	285.83	1,516.26	42.94	
GTS - BURIAL (NORMAL)														0.00	TOTAL POUNDS
GTS - BURIAL (OUT OF NORM)														0.00	TOTAL POUNDS
US ECOLOGY - BURIAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
METAL															
CNSI - SHIP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
CNSI - BURIAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
GTS - SHIP	820.00	0.00	0.00	0.00	1,000.00	880.00	165.50	0.00	0.00	1,586.70	0.00	1,000.00	5,454.20	154.45	
GTS - BURIAL	0.00	0.00	0.00	0.00	283.37	39.36	19.35	39.90	0.00	138.34	358.19	104.51	983.01	27.84	
POWDEX															
CNSI - SHIP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
CNSI - BURIAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
ATG - SHIP	0.00	555.00	0.00	0.00	0.00	555.00	0.00	0.00	0.00	0.00	0.00	0.00	1,110.00	31.43	
ATG - BURIAL	0.00	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	923.35	0.00	0.00	936.85	26.53	
P. FILTERS															
CNSI - SHIP	0.00	0.00	120.30	120.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	240.60	6.81	
CNSI - BURIAL	0.00	0.00	120.30	120.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	240.60	6.81	
B. RESIN															
CNSI - SHIP	0.00	0.00	0.00	0.00	120.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	120.30	3.41	
CNSI - BURIAL	0.00	0.00	0.00	0.00	120.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	120.30	3.41	
D. RESIN															
CNSI - SHIP	0.00	0.00	120.30	0.00	0.00	0.00	120.30	0.00	0.00	120.30	0.00	0.00	360.90	10.22	
CNSI - BURIAL	0.00	0.00	120.30	0.00	0.00	0.00	120.30	0.00	0.00	120.30	0.00	0.00	360.90	10.22	
S. FILTERS															
GTS - SHIP	0.00	0.00	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00	0.42	
GTS - BURIAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
IRR. COMP															
CNSI - SHIP	0.00	73.15	0.00	0.00	0.00	0.00	0.00	0.00	75.24	0.00	0.00	0.00	148.39	4.20	
CNSI - BURIAL	0.00	73.15	0.00	0.00	0.00	0.00	0.00	0.00	75.24	0.00	0.00	0.00	148.39	4.20	
GTS - SHIP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	111.30	0.00	0.00	111.30	3.15	
GTS - BURIAL	0.00	0.00	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															
SHIPPED P3	2,820.00	628.15	2,240.60	2,120.30	5,120.30	1,435.00	3,285.80	57.30	75.24	3,820.30	4,014.90	4,000.00	29,617.89	838.70	
SHIPPED M3	79.86	17.79	63.45	60.04	144.99	40.64	93.05	1.62	2.13	108.18	113.69	113.27	836.70	23.75	
BURIAL P3	393.71	143.69	361.89	141.10	465.00	147.37	192.96	247.57	235.76	1,237.45	521.68	380.34	4,478.51	128.82	
BURIAL M3	11.15	4.07	10.25	4.00	13.17	4.17	5.46	7.01	6.88	35.04	14.77	11.05	126.82	3.59	
CUBIC METER															
DAW	11.15	3.69	3.43	0.59	9.76	4.17	2.06	7.01	6.88	5.49	14.77	11.05	79.85	Y-T-D TOTAL	
BLUDGEARN & BOTTONE	0.00	0.38	6.81	3.41	3.41	0.00	3.41	0.00	0.00	29.55	0.00	0.00	46.97	126.82	

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 revisions to the Process Control Program for 2001. This applies to the Corporate Section and the Oconee Nuclear site.
- ODCM See the attached CD for Revision 42 to the Oconee Nuclear Station Offsite Dose Calculation Manual (ODCM) Oconee Nuclear Station