

# CATEGORY 1

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       50-287 Oconee Nuclear Station, Unit 3, Duke Power Co.  
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 HAMPTON, J.W.                Duke Power Co.  
 RECIP. NAME                 RECIPIENT AFFILIATION

DOCKET #  
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SUBJECT: "Annual Radioactive Effluent Release Rept for Oconee Nuclear Site for 1995." W/960417 ltr.

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	RG2 FILE	1 1		
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**DUKE POWER**

April 17, 1996

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

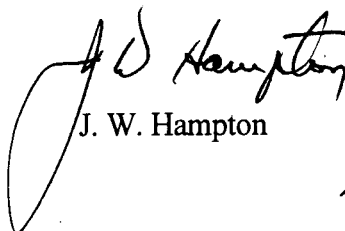
Gentlemen:

Pursuant to Oconee Nuclear Site Selected Licensee Commitment Manual, SLC 16.11-9, and 10 CFR 50.36a(a)(2), please find attached the 1995 Annual Radioactive Effluent Release Report.

Attachment 1 contains Radioactive Effluent Releases.  
Attachment 2 contains Solid Waste Disposal Reports.  
Attachment 3 contains Meteorological Data.  
Attachment 4 contains Unplanned Offsite Releases.  
Attachment 5 contains Inoperable Monitoring Equipment.  
Attachment 6 contains ODCM/PCP Manual Changes.

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

Very truly yours,

  
J. W. Hampton

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U. S. Nuclear Regulatory Commission

April 17, 1996

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**Duke Power Company**

**Oconee Nuclear Site**

**Attachment I**

**Radioactive Effluent Releases  
and Supplemental Information**

OCONEE NUCLEAR STATION  
RADIOACTIVE EFFLUENT RELEASES  
DATE : 02/14/96

I. LIQUID RELEASES

YEAR : 1995

	UNITS	1ST QTR	2ND QTR	3RD QTR	4TH QTR	TOTAL	
1. GROSS RADIOACTIVITY							
A. TOTAL RELEASE	CURIES	2.86E-02	2.16E-01	8.06E-02	6.25E-02	3.88E-01	
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	8.41E-11	1.28E-09	3.69E-10	1.86E-10	3.65E-10	
C. MAXIMUM CONCENTRATION RELEASED	UCI/ML	7.27E-09	4.33E-08	1.50E-08	9.78E-09	4.33E-08	
2. TRITIUM							
A. TOTAL RELEASE	CURIES	2.83E+02	3.10E+02	1.23E+02	1.19E+02	8.35E+02	
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	8.33E-07	1.83E-06	5.65E-07	3.54E-07	7.86E-07	
3. DISSOLVED NOBLE GASES							
A. TOTAL RELEASE	CURIES	8.41E-03	1.66E-01	1.71E-03	6.65E-04	1.76E-01	
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	2.48E-11	9.80E-10	7.84E-12	1.98E-12	1.66E-10	
4. GROSS ALPHA ACTIVITY							
A. TOTAL RELEASE	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
5. VOLUME OF LIQUID WASTE TO DISCHARGE CANAL	LITERS	9.45E+08	1.05E+09	8.62E+08	5.71E+08	3.43E+09	
6. VOLUME OF DILUTION WATER	LITERS	3.40E+11	1.69E+11	2.18E+11	3.35E+11	1.06E+12	
7. RADIONUCLIDES RELEASED	CURIES						EC RATIO
H-3		2.83E+02	3.10E+02	1.23E+02	1.19E+02	8.35E+02	7.86E-04
CR-51		0.00E+00	7.58E-03	1.44E-03	2.07E-04	9.23E-03	1.74E-08
MN-54		1.10E-05	1.86E-04	0.00E+00	0.00E+00	1.97E-04	6.17E-09
FE-59		0.00E+00	7.55E-05	0.00E+00	0.00E+00	7.55E-05	7.11E-09
CO-58		1.99E-03	4.32E-02	1.14E-02	3.97E-03	6.06E-02	2.85E-06
CO-60		5.11E-03	6.95E-03	3.56E-03	8.50E-04	1.65E-02	5.17E-06
SR-89		0.00E+00	3.19E-04	0.00E+00	0.00E+00	3.19E-04	3.75E-08
SR-90		4.61E-05	7.86E-02	9.74E-05	0.00E+00	7.87E-02	1.48E-04
NB-95		2.54E-04	5.41E-03	2.03E-03	1.82E-04	7.88E-03	2.47E-07
ZR-95		6.35E-05	4.02E-03	1.28E-03	1.24E-05	5.37E-03	2.53E-07
MO-99		0.00E+00	1.13E-03	0.00E+00	0.00E+00	1.13E-03	5.30E-08
TC-99M		0.00E+00	1.09E-03	0.00E+00	0.00E+00	1.09E-03	1.03E-09
RU-103		0.00E+00	3.27E-03	8.75E-04	0.00E+00	4.15E-03	1.30E-07
RU-106		6.10E-04	3.80E-03	1.97E-03	3.96E-04	6.78E-03	2.13E-06
AG-110M		8.87E-03	1.67E-02	2.25E-02	4.60E-03	5.27E-02	8.27E-06
I-131		1.38E-03	6.31E-03	7.27E-04	1.07E-04	8.53E-03	8.03E-06
I-132		0.00E+00	4.86E-05	0.00E+00	0.00E+00	4.86E-05	4.57E-10
I-133		0.00E+00	8.60E-06	0.00E+00	3.12E-05	3.98E-05	5.35E-09
SB-124		1.93E-04	3.75E-04	1.21E-03	1.57E-03	3.35E-03	4.51E-07
SB-125		7.36E-03	2.90E-02	2.76E-02	4.76E-02	1.12E-01	3.50E-06
SN-113		0.00E+00	1.69E-04	0.00E+00	0.00E+00	1.69E-04	5.30E-09
TE-132		0.00E+00	8.42E-05	0.00E+00	0.00E+00	8.42E-05	8.81E-09
CS-134		5.19E-04	7.51E-04	7.34E-04	7.72E-04	2.78E-03	2.90E-06
CS-137		1.15E-03	2.88E-03	2.53E-03	1.88E-03	8.45E-03	7.95E-06
LA-140		5.02E-05	3.06E-04	1.26E-04	1.04E-04	5.86E-04	6.13E-08
CE-141		0.00E+00	9.09E-04	3.43E-04	0.00E+00	1.25E-03	3.93E-08
CE-144		9.39E-04	3.08E-03	2.09E-03	5.23E-05	6.16E-03	1.93E-06
NP-239		0.00E+00	1.60E-04	0.00E+00	0.00E+00	1.60E-04	7.53E-09
AS-76		0.00E+00	0.00E+00	0.00E+00	1.58E-04	1.58E-04	1.49E-08
KR-85		3.90E-03	0.00E+00	0.00E+00	0.00E+00	3.90E-03	3.67E-08
XE-131M		0.00E+00	2.76E-03	0.00E+00	0.00E+00	2.76E-03	2.60E-08
XE-133		4.30E-03	1.61E-01	1.56E-03	6.10E-04	1.68E-01	1.58E-06
XE-133M		0.00E+00	1.05E-03	0.00E+00	0.00E+00	1.05E-03	9.86E-09
XE-135		2.16E-04	6.98E-04	1.53E-04	5.50E-05	1.12E-03	1.06E-08

TOTAL EC RATIO 9.80E-04

OCONEE LIQUID DOSE RELEASE 001-090 95 3.40E+11 ALL

02/14/96

SKIN	MAXIMUM DOSE-	2.55E-04 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	SHORE
	CS 60	63.41 %				
	AG 110M	17.52 %				
	SB 125	9.54 %				
	CS 137	6.79 %				
BONE	MAXIMUM DOSE-	2.51E-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	FISH
	CS 134	24.28 %				
	CS 137	75.23 %				
LIVER	MAXIMUM DOSE-	3.23E-02 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	FISH
	CS 134	36.73 %				
	CS 137	61.64 %				
T. BODY	MAXIMUM DOSE-	2.26E-02 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	CS 134	42.37 %				
	CS 137	55.46 %				
THYROID	MAXIMUM DOSE-	1.06E-03 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	FISH
	H 3	29.68 %				
	CS 60	12.96 %				
	I 131	49.75 %				
KIDNEY	MAXIMUM DOSE-	1.11E-02 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	FISH
	CS 134	34.07 %				
	CS 137	61.26 %				
LUNG	MAXIMUM DOSE-	4.61E-03 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	FISH
	H 3	6.83 %				
	CS 134	31.36 %				
	CS 137	57.48 %				
GI-LLI	MAXIMUM DOSE-	3.64E-03 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	H 3	11.24 %				
	NB 95	65.69 %				
	CS 134	5.64 %				
	CS 137	10.23 %				

O'CONNOR LIQUID DOSE RELEASE 091-181 95 1.69E+11 ALL

02/14/96

SKIN	MAXIMUM DOSE-	9.76E-04 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	SHORE
	CO 58	5.00 %				
	CO 60	45.73 %				
	AG 110M	17.49 %				
	SB 125	19.93 %				
	CS 137	9.01 %				
BONE	MAXIMUM DOSE-	3.85E-01 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	FISH
	SR 90	70.39 %				
	CS 137	24.88 %				
LIVER	MAXIMUM DOSE-	1.38E-01 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	FISH
	CS 134	25.32 %				
	CS 137	73.54 %				
T. BODY	MAXIMUM DOSE-	1.68E-01 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	SR 90	44.70 %				
	CS 134	16.71 %				
	CS 137	37.85 %				
THYROID	MAXIMUM DOSE-	6.44E-03 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	FISH
	H 3	10.87 %				
	CO 60	5.89 %				
	I 131	76.04 %				
KIDNEY	MAXIMUM DOSE-	4.71E-02 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	FISH
	CS 134	23.53 %				
	CS 137	73.23 %				
LUNG	MAXIMUM DOSE-	1.92E-02 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	FISH
	CS 134	22.15 %				
	CS 137	70.25 %				
GI-LLI	MAXIMUM DOSE-	1.25E-01 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	SR 90	12.80 %				
	NB 95	82.80 %				



O'CONNOR LIQUID DOSE RELEASE 182-273 95 2.18E+11 ALL

02/14/96

SKIN	MAXIMUM DOSE-	5.92E-04 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	SHORE
	CO 60	30.27 %				
	AG 110M	30.45 %				
	SB 125	24.50 %				
	CS 137	10.23 %				
BONE	MAXIMUM DOSE-	8.00E-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	FISH
	CS 134	17.10 %				
	CS 137	82.43 %				
LIVER	MAXIMUM DOSE-	9.71E-02 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	FISH
	CS 134	27.50 %				
	CS 137	71.79 %				
T. BODY	MAXIMUM DOSE-	6.58E-02 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	CS 134	32.70 %				
	CS 137	66.57 %				
THYROID	MAXIMUM DOSE-	1.17E-03 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	FISH
	H 3	18.59 %				
	CO 60	13.01 %				
	AG 110M	13.20 %				
	I 131	37.76 %				
	SB 125	10.97 %				
KIDNEY	MAXIMUM DOSE-	3.29E-02 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	FISH
	CS 134	25.80 %				
	CS 137	72.15 %				
LUNG	MAXIMUM DOSE-	1.32E-02 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	FISH
	CS 134	24.65 %				
	CS 137	70.28 %				
GI-LLI	MAXIMUM DOSE-	3.31E-02 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	NB 95	91.77 %				

OCONEE LIQUID DOSE RELEASE 274-365 95 3.35E+11 ALL

02/14/96

SKIN	MAXIMUM DOSE- 2.56E-04 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	SHORE
	CO 60 10.88 %				
	AG 110M 9.37 %				
	SB 125 63.63 %				
	CS 137 11.45 %				
BONE	MAXIMUM DOSE- 4.13E-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	FISH
	CS 134 22.67 %				
	CS 137 77.22 %				
LIVER	MAXIMUM DOSE- 5.23E-02 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	FISH
	CS 134 34.94 %				
	CS 137 64.43 %				
T. BODY	MAXIMUM DOSE- 3.61E-02 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	CS 134 40.76 %				
	CS 137 58.63 %				
THYROID	MAXIMUM DOSE- 4.04E-04 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	SHORE
	H 3 33.89 %				
	CO 60 5.85 %				
	AG 110M 5.08 %				
	I 131 10.47 %				
	SB 125 35.65 %				
	CS 137 6.21 %				
KIDNEY	MAXIMUM DOSE- 1.76E-02 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	FISH
	CS 134 32.97 %				
	CS 137 65.16 %				
LUNG	MAXIMUM DOSE- 7.03E-03 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	FISH
	CS 134 31.62 %				
	CS 137 63.69 %				
GI-LLI	MAXIMUM DOSE- 3.05E-03 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	H 3 5.84 %				
	NB 95 58.20 %				
	CS 134 10.38 %				
	CS 137 20.68 %				

O'CONNOR LIQUID DOSE RELEASE 001-365 95 1.06E+12 ALL

02/14/96

SKIN	MAXIMUM DOSE-	1.76E-03 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	SHORE
	CO 60	38.45 %				
	AG 110M	19.55 %				
	SB 125	27.25 %				
	CS 137	9.36 %				
BONE	MAXIMUM DOSE-	3.95E-01 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	FISH
	SR 90	43.83 %				
	CS 134	10.68 %				
	CS 137	45.39 %				
LIVER	MAXIMUM DOSE-	2.75E-01 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	FISH
	CS 134	29.99 %				
	CS 137	69.04 %				
T. BODY	MAXIMUM DOSE-	2.36E-01 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	SR 90	20.39 %				
	CS 134	28.18 %				
	CS 137	50.59 %				
THYROID	MAXIMUM DOSE-	6.94E-03 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	FISH
	H 3	17.32 %				
	CO 60	8.27 %				
	I 131	60.79 %				
	SB 125	6.11 %				
KIDNEY	MAXIMUM DOSE-	9.34E-02 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	FISH
	CS 134	28.04 %				
	CS 137	69.16 %				
LUNG	MAXIMUM DOSE-	3.78E-02 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	FISH
	CS 134	26.53 %				
	CS 137	66.70 %				
GI-LLI	MAXIMUM DOSE-	1.15E-01 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	SR 90	8.86 %				
	NB 95	83.39 %				

OCONEE NUCLEAR STATION  
RADIOACTIVE EFFLUENT RELEASES  
DATE : 02/14/96

II. AIRBORNE RELEASES

YEAR : 1995

	UNITS	1ST QTR	2ND QTR	3RD QTR	4TH QTR	TOTAL	
1. TOTAL NOBLE GASES	CURIES	1.82E+02	1.07E+03	3.53E+01	8.03E+00	1.29E+03	
2. TOTAL HALOGENS	CURIES	1.60E-03	9.79E-03	1.07E-02	4.29E-04	2.25E-02	
3. TOTAL PARTICULATE GROSS BETA-GAMMA	CURIES	5.46E-02	1.36E-01	7.47E-01	5.47E-04	9.38E-01	
4. TOTAL TRITIUM	CURIES	1.93E+01	4.58E+00	1.21E+01	7.25E+00	4.32E+01	
5. TOTAL PARTICULATE GROSS ALPHA ACTIVITY	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
6. MAXIMUM NOBLE GAS RELEASE RATE	UCI/SEC	1.60E+03	1.60E+03	1.60E+03	1.60E+03	1.60E+03	
7. RADIONUCLIDES RELEASED	CURIES						EC RATIO
H-3		1.93E+01	4.58E+00	1.21E+01	7.25E+00	4.32E+01	2.29E-05

PARTICULATES

MN-54	0.00E+00	0.00E+00	4.54E-06	0.00E+00	4.54E-06	2.41E-10
CO-58	0.00E+00	0.00E+00	2.04E-11	5.62E-06	5.62E-06	2.98E-10
CO-60	0.00E+00	6.71E-07	0.00E+00	0.00E+00	6.71E-07	7.11E-10
SE-75	0.00E+00	1.21E-10	0.00E+00	0.00E+00	1.21E-10	8.02E-15
RB-88	5.29E-02	1.33E-01	0.00E+00	0.00E+00	1.86E-01	1.09E-07
SB-124	0.00E+00	1.37E-10	0.00E+00	0.00E+00	1.37E-10	2.42E-14
SB-125	0.00E+00	1.34E-10	0.00E+00	0.00E+00	1.34E-10	1.01E-14
CS-134	0.00E+00	1.52E-06	1.11E-06	0.00E+00	2.63E-06	6.96E-10
CS-137	6.83E-05	1.17E-04	8.02E-05	1.19E-04	3.84E-04	1.02E-07
CS-138	1.62E-03	2.84E-03	2.58E-04	4.23E-04	5.15E-03	3.41E-09
C-11	0.00E+00	2.06E-06	7.46E-01	0.00E+00	7.46E-01	6.59E-08

HALOGENS

I-131	6.13E-04	3.17E-03	4.31E-03	3.38E-05	8.12E-03	2.15E-06
I-132	2.03E-05	1.93E-03	1.26E-03	6.19E-05	3.27E-03	8.66E-09
I-133	9.69E-04	4.14E-03	2.64E-03	3.34E-04	8.08E-03	4.28E-07
I-134	0.00E+00	1.98E-04	1.25E-04	0.00E+00	3.22E-04	2.84E-10
I-135	0.00E+00	3.59E-04	2.38E-03	0.00E+00	2.74E-03	2.42E-08

GASES

AR-41	0.00E+00	3.62E-02	1.33E+00	1.53E-02	1.38E+00	7.32E-06
KR-85	0.00E+00	1.22E+01	5.56E-01	1.41E-01	1.29E+01	9.76E-07
KR-85M	1.89E-02	5.24E+00	7.01E-01	0.00E+00	5.96E+00	3.16E-06
KR-87	0.00E+00	2.41E-04	1.98E+00	0.00E+00	1.98E+00	5.23E-06
KR-88	3.60E-02	2.33E+00	1.85E+00	0.00E+00	4.21E+00	2.48E-05
XE-131M	0.00E+00	3.50E+00	1.32E+00	0.00E+00	4.82E+00	1.28E-07
XE-133	1.71E+02	8.32E+02	1.88E+01	4.29E+00	1.03E+03	1.09E-04
XE-133M	2.94E-01	2.73E+01	0.00E+00	1.12E-02	2.76E+01	2.44E-06
XE-135	1.03E+01	1.86E+02	5.03E+00	3.57E+00	2.05E+02	1.55E-04
XE-135M	0.00E+00	1.38E-02	0.00E+00	0.00E+00	1.38E-02	1.83E-08
XE-138	0.00E+00	0.00E+00	3.75E+00	0.00E+00	3.75E+00	9.94E-06

TOTAL EC RATIO 3.44E-04

OCCONEE GROUND AND ELEVATED COMBINED SUMMARY  
SPECIAL LOCATION

001-090 95

02/14/96

AT 1.0 mile SW

NOBLE GAS EXPOSURE:

BETA AIR DOSE =  $1.10\text{E}-02$  MILLIRADS  
GAMMA AIR DOSE =  $4.32\text{E}-03$  MILLIRADS

TOTAL BODY DOSE =  $2.60\text{E}-03$  MILLIREM  
XE133 72.52%  
XE135 26.58%

TOTAL SKIN DOSE =  $7.19\text{E}-03$  MILLIREM  
73.86%  
25.45%

OCCONEE GROUND AND ELEVATED COMBINED SUMMARY  
SPECIAL LOCATION

001-090 95

02/14/96

AT 1.0 mile SW

IODINE, PARTICULATE, AND TRITIUM EXPOSURE SUMMARY:

MAXIMUM ORGAN - THYROID  
CRITICAL AGE - CHILD  
CRITICAL PATHWAY - VEGET @ 76.37%

MAXIMUM ORGAN DOSE =  $1.34\text{E}-02$  MILLIREM  
H 3 45.03%  
I 131 49.92%

OCCONEE GROUND AND ELEVATED COMBINED SUMMARY  
SPECIAL LOCATION

091-181 95

02/14/96

AT 1.0 mile SW

NOBLE GAS EXPOSURE:

BETA AIR DOSE =  $8.21\text{E}-02$  MILLIRADS  
GAMMA AIR DOSE =  $3.98\text{E}-02$  MILLIRADS

TOTAL BODY DOSE =  $2.49\text{E}-02$  MILLIREM  
XE133 41.91%  
XE135 50.89%  
KR 88 5.10%

TOTAL SKIN DOSE =  $6.80\text{E}-02$  MILLIREM  
43.16%  
49.11%  
2.57%

OCCONEE GROUND AND ELEVATED COMBINED SUMMARY  
SPECIAL LOCATION  
AT 5.00 MILES NE

091-181 95

02/14/96

IODINE, PARTICULATE, AND TRITIUM EXPOSURE SUMMARY:

MAXIMUM ORGAN - THYROID  
CRITICAL AGE - INFANT  
CRITICAL PATHWAY - GOATMILK @ 99.44%

MAXIMUM ORGAN DOSE =  $4.04\text{E}-02$  MILLIREM  
I 131 98.40%

OCONEE GROUND AND ELEVATED COMBINED SUMMARY  
SPECIAL LOCATION  
AT 1.0 mile SW

182-273 95

02/14/96

NOBLE GAS EXPOSURE:

BETA AIR DOSE =  $4.48\text{E}-03$  MILLIRADS  
GAMMA AIR DOSE =  $5.55\text{E}-03$  MILLIRADS

TOTAL BODY DOSE =  $3.70\text{E}-03$  MILLIREM  
AR 41 11.79%  
KR 87 11.77%  
KR 88 27.33%  
XE133 5.70%  
XE135 9.14%  
XE138 33.28%

TOTAL SKIN DOSE =  $7.51\text{E}-03$  MILLIREM  
9.30%  
20.23%  
18.50%  
7.90%  
11.90%  
29.82%

OCONEE GROUND AND ELEVATED COMBINED SUMMARY  
SPECIAL LOCATION  
AT 5.00 MILES NE

182-273 95

02/14/96

IODINE, PARTICULATE, AND TRITIUM EXPOSURE SUMMARY:

MAXIMUM ORGAN - THYROID  
CRITICAL AGE - INFANT  
CRITICAL PATHWAY - GOATMILK @ 99.54%

MAXIMUM ORGAN DOSE =  $5.76\text{E}-02$  MILLIREM  
I 131 98.98%

O'CONNOR GROUND AND ELEVATED COMBINED SUMMARY 274-365 95 02/14/96  
SPECIAL LOCATION  
AT 1.0 mile SW

NOBLE GAS EXPOSURE:

BETA AIR DOSE =  $7.22E-04$  MILLIRADS  
GAMMA AIR DOSE =  $4.51E-04$  MILLIRADS

TOTAL BODY DOSE =  $2.92E-04$  MILLIREM  
XE133 16.02%  
XE135 82.18%

TOTAL SKIN DOSE =  $7.85E-04$  MILLIREM  
16.81%  
80.77%

O'CONNOR GROUND AND ELEVATED COMBINED SUMMARY 274-365 95 02/14/96  
SPECIAL LOCATION  
AT 1.0 mile SW

IODINE, PARTICULATE, AND TRITIUM EXPOSURE SUMMARY:

MAXIMUM ORGAN - LIVER  
CRITICAL AGE - CHILD  
CRITICAL PATHWAY - VEGET @ 72.19%

MAXIMUM ORGAN DOSE =  $5.27E-03$  MILLIREM  
H 3 63.64%  
CS137 36.30%



OCONEE GROUND AND ELEVATED COMBINED SUMMARY 001-365 95 02/14/96  
SPECIAL LOCATION  
AT 1.0 mile SW

NOBLE GAS EXPOSURE:

BETA AIR DOSE =  $9.83\text{E}-02$  MILLIRADS  
GAMMA AIR DOSE =  $5.01\text{E}-02$  MILLIRADS

TOTAL BODY DOSE =  $3.14\text{E}-02$  MILLIREM  
XE133 40.10%  
XE135 44.09%  
KR 88 7.32%

TOTAL SKIN DOSE =  $8.35\text{E}-02$  MILLIREM  
42.37%  
44.04%  
3.78%

OCONEE GROUND AND ELEVATED COMBINED SUMMARY 001-365 95 02/14/96  
SPECIAL LOCATION  
AT 1.0 mile SW

IODINE, PARTICULATE, AND TRITIUM EXPOSURE SUMMARY:

MAXIMUM ORGAN - THYROID  
CRITICAL AGE - CHILD  
CRITICAL PATHWAY - VEGET @ 79.43%

MAXIMUM ORGAN DOSE =  $1.10\text{E}-01$  MILLIREM  
H 3 13.65%  
I 131 82.10%

SUPPLEMENTAL INFORMATION

OCONEE NUCLEAR STATION  
EFFLUENT AND WASTE DISPOSAL SUPPLEMENTAL INFORMATION

REPORT DATE: 02/15/96

PERIOD COVERED: START DAY = 001 STOP DAY = 365

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.  $1.76 \times 10^2$  = TOTAL NUMBER OF BATCH RELEASES
2.  $5.54 \times 10^5$  = TOTAL TIME(MIN.) FOR BATCH RELEASES.
3.  $4.46 \times 10^4$  = MAXIMUM TIME(MIN.) FOR A BATCH RELEASE.
4.  $3.15 \times 10^3$  = AVERAGE TIME(MIN.) FOR A BATCH RELEASE.
5.  $6.00 \times 10^1$  = MINIMUM TIME(MIN.) FOR A BATCH RELEASE.
6.  $7.24 \times 10^6$  = AVERAGE DILUTION WATER FLOW DURING RELEASES(GPM).

B. GASEOUS EFFLUENT

1.  $1.31 \times 10^2$  = TOTAL NUMBER OF BATCH RELEASES.
2.  $6.57 \times 10^5$  = TOTAL TIME(MIN.) FOR BATCH RELEASES.
3.  $4.46 \times 10^4$  = MAXIMUM TIME(MIN.) FOR A BATCH RELEASE.
4.  $5.01 \times 10^3$  = AVERAGE TIME(MIN.) FOR A BATCH RELEASE.
5.  $8.00 \times 10^0$  = MINIMUM TIME(MIN.) FOR A BATCH RELEASE.

VI. ABNORMAL RELEASES

A. LIQUID

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

B. GASEOUS

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

## SUPPLEMENTAL REPORT PAGE 2

### OCONEE NUCLEAR STATION

Values represented by "0.00E+00" within the body of the Annual report are below the minimum detectable limits of the Oconee counting systems. Typical MDA's for the Oconee counting systems are listed below:

<u>ISOTOPE</u>	<u>ENERGY (Kev)</u>	<u>AVERAGE MDA</u>
Xe-133	80	1.32E-06
Ce-144	133	1.42E-06
Kr-88	196	1.82E-06
Xe-135	249	5.04E-07
Kr-87	402	9.99E-07
Cs-137	661	3.17E-07
Nb-95	766	2.55E-07
Mo-99	778	1.22E-07
Mn-54	834	2.18E-07
Zn-65	1115	4.27E-07
Co-60	1332	2.24E-07

## SUPPLEMENTAL REPORT PAGE 3

### 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  $\pm 16.1\%$ . 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 =  $\pm 5\%$
- (2) Counting error =  $\pm 15\%$
- (3) Sample preparation error =  $\pm 3\%$

## FUEL CYCLE CALCULATION

1995 OCONEE FUEL CYCLE SUMMARY

DAYS 001-365

02/14/96 AT 14:14

MAXIMUM TOTAL BODY	SW 1.0 mile	2.67E-01	AGE : ADULT
ONS.GAS		3.14E-02	11.7 %
		XE133	40.1 %
		XE135	44.0 %
		KR 88	7.3 %
ONS.LIQUID		2.36E-01	88.2 %
CRITICAL PATH		FISH	99.5 %
		SR 90	20.3 %
		CS 134	28.0 %
		CS 137	50.3 %

MAXIMUM ORGAN	NE 1.0 mile	4.03E-01	AGE : CHILD	ORGAN : BONE
ONS.GAS		7.63E-03	1.8 %	
CRITICAL PATH		GARDEN	70.9 %	
		CS137	95.4 %	
ONS.LIQUID		3.95E-01	98.1 %	
CRITICAL PATH		FISH	99.9 %	
		SR 90	43.9 %	
		CS 134	10.7 %	
		CS 137	45.4 %	

1995 OCONEE FUEL CYCLE SUMMARY

DAYS 001-365

02/14/96 AT 14:14

MAXIMUM TOTAL BODY	SW 1.0 mile	2.67E-01	AGE : ADULT
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MAXIMUM ORGAN	NE 1.0 mile	4.03E-01	AGE : CHILD	ORGAN : BONE
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**Duke Power Company**

**Oconee Nuclear Site**

**Attachment II**

**Solid Waste Disposal Report**



# OCONEE NUCLEAR STATION ANNUAL RADWASTE REPORT

1/23/96

DUKE POWER COMPANY												
OCONEE NUCLEAR STATION												
SOLID RADIOACTIVE WASTE SHIPPED TO A DISPOSAL FACILITY												
REPORT PERIOD: JANUARY - DECEMBER YEAR 1995												
TYPES OF WASTE SHIPPED		NUMBER OF SHIPMENTS	NUMBER OF CONTAINERS	A-U	WASTE CLASS A-S	B	C	CONTAINER TYPE	BURIAL VOLUME CU. FT.	CU. M.	TOTAL ACTIVITY Curies	
1) WASTE FROM LIQUID SYSTEM												
(A) DEWATERED POWDEX RESIN		31	31	0	0	0	0	STC	122.5	3.47	2.60	
(B) DEWATERED BEAD RESIN		5	5	0	0	3	2	TYPE A/B	601.5	17.03	945.40	
(C) EVAPORATOR CONCENTRATES		0	0	0	0	0	0		0	0.00	0.00	
(D) DEWATERED MECHANICAL FILTERS												
1. PRIMARY FILTER MEDIA		5	60	60	0	0	1	TYPE A/B	570.3	16.15	45.39	
2. SECONDARY FILTER MEDIA		3	3	3	0	0	0	STC	17.7	0.50	0.01	
(E) DEWATERED DEMINERALIZERS		2	2	0	0	0	2	TYPE A	240.6	6.81	111.00	
(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)	59	68	68	0	0	0		841	23.81	1.25	
	(2)	3	3	3	0	0	0		215.99	6.12	0.21	
(B) DRY ACTIVE WASTE (NON-COMPACTED)		1	1	1	0	0	0		7.5	0.21	0.00	
(C) DRY ACTIVE WASTE (BROKERED)		0	0	0	0	0	0		0	0.00	0.00	
(D) IRRADIATED COMPONENTS		1	2	0	2	0	0		15	0.42	64.80	
		=====	=====	=====	=====	=====	=====		=====	=====	=====	
TOTAL		110	175	135	2	3	5		2632.09	74.53	1170.67	
NOTE: (1) SHIPMENTS FROM ALARON & SEG TO CNSI @ BARNWE * SHIPMENTS MADE FROM OTHER COMPANYS												
(2) SHIPMENTS FROM ALARON TO CNSI @ BARNWELL (D) SO INFORMATION IS NOT KNOWN												

2/14/96

2/14/96

OCONEE NUCLEAR STATION SOLID RADWASTE REPORT																										
REPORT PERIOD: JANUARY - DECEMBER																										
WASTE TYPE: POWDEX RESIN																										
										# OF LINERS SHIPPED TO SEG					21	# OF SHIPMENTS TO SEG					12					
										# OF LINERS SHIPPED TO CNS					31	# OF SHIPMENTS TO CNS					31	TOTAL AVE.				
ISOTOPE:	% ABUNDANCE/LINER							# OF LINERS SHIPPED TO CNS					31	# OF SHIPMENTS TO CNS					31							
CR-51	0	11.84	0	4.8	4.98	6.6	3.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31.58	1.5038095	
MN-54	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	
CO-57	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	
CO-58	4.64	168.56	36.8	39.36	51.3	42.57	8.43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	351.66	16.745714	
CO-60	2.76	29.32	19.05	14.91	23.28	30.21	5.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124.86	5.9457143	
NB-95	0	11.12	1.12	5.73	0	3.57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21.54	1.0257143	
ZR-95	0	7.92	1.12	4.5	0	5.73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19.27	0.917619	
CS-134	9.48	0	3.48	9.75	5.88	0	3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.09	1.5280952	
RU-103	0	9.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.08	0.432381	
AG-110m	9.4	31.68	63.27	87.03	64.38	52.92	9.32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	318	15.142857	
SB-125	336.2	27.36	91.24	40.65	43.23	46.62	42.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	627.5	29.880952	
I-131	0	0.12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.12	0.0057143	
CS-137	32.04	3.08	14.53	38.4	24.72	8.97	9.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	131.19	6.2471429	
H-3	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	
NI-63	4.84	48.76	32.06	24.78	38.73	50.28	8.87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	208.32	9.92	
FE-55	0	35.32	22.74	18.06	28.02	36.48	6.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	147.07	7.0033333	
SR-90	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	
TE-125m	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	
CS-136	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	
XE-133	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	
C-14	0.64	6.36	4.19	3.24	5.07	6.6	1.16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27.26	1.2980952	
PU-241	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	
TRU	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	
FE-59	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	
SB-124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.33	0.2061905	
RU-106	0	0	4.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47.51	2.262381	
CE-144	0	9.52	6.07	10.11	10.44	9.45	1.92	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	400	400.04	300	301.32	300.03	300	99.99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2101.38	100.06571	
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	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	0	0	
CLASS A	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	
CLASS A	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	
CURIES	0.405	1.564	0.212	0.159	0.26	0	0.001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.601		
CU. FT.	28.2	30	15.2	33.1	13	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	122.5		
CU. M	0.7986	0.8495	0.4304	0.9373	0.3681	0	0.085	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.468879		
RSR#	95-2012	95-2013	95-2022	95-2030	95-2036	95-2040	95-2055	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

1/23/96

OCONEE NUCLEAR STATION SOLID RADWASTE REPORT																								
REPORT PERIOD: JANUARY - DECEMBER																								
WASTE TYPE: BEAD RESIN																								
# OF LINERS SHIPPED TO C															5									
# OF SHIPMENTS TO CNSI															5									
ISOTOPE:					% ABUNDANCE/LINER					# OF SHIPMENTS TO CNSI					5					TOTAL AVE.				
CR-51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MN-54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO-57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO-58	0	6.1	0	4.1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.2	2.44	0
CO-60	0.8	1	3.4	2.2	4.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11.6	2.32	0
NB-95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZR-95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CS-134	19.8	26.1	15.2	8.8	12.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82.7	16.54	0
RU-103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AG-110m	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SB-125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I-131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CS-137	72.8	58.9	55.1	67.1	49.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	303	60.6	0
H-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NI-63	4.3	5.3	18.9	12.5	23.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64.2	12.84	0
FE-55	1.5	1.9	6.6	4.3	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22.3	4.46	0
SR-90	0.8	0.6	0.6	0.7	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.2	0.64	0
TE-125m	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CS-136	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
XE-133	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C-14	0	0	0.1	0.1	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.06	0
PU-241	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.08	0
TRU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FE-59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SB-124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RU-106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CE-144	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	100.1	100	100	99.9	99.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	499.9	99.98	0
CLASS C	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
CLASS B	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
CLASS A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CLASS A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CURIES	131	79.7	84.7	206	444	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	945.4	0	0
CU. FT.	120.3	120.3	120.3	120.3	120.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	601.5	0	0
CU. M	3.403978	3.406581	3.406581	3.406581	3.406581	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17.03	0	0
RSR#	95-2003	95-2007	95-2008	95-2016	95-2029																			

**SREP95.XLW**

TOTAL CUBIC METERS	
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TOTAL CUBIC METERS	6.116271
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Prepared by Oconee Nuclear Station - RP / RMC  
1/23/96

OCONEE NUCLEAR STATION SOLID RADWASTE REPORT																									
REPORT PERIOD: JANUARY - DECEMBER																									
WASTE TYPE: DEMIN RESIN																									
# OF LINERS SHIPPED TO CNSI													2												
# OF SHIPMENTS TO CNSI													2												
ISOTOPE:													TOTAL AVE.												
% ABUNDANCE/LINER																									
CR-51	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
MN-54	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
CO-57	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
CO-58	5.5	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19.5	9.75	
CO-60	13.1	2.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15.5	7.75	
NB-95	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
ZR-95	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
CS-134	7.6	23.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31.3	15.65	
RU-103	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
AG-110m	4.1	2.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.9	3.45	
SB-125	1.6	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.7	1.35	
I-131	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
CS-137	13.2	43.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56.3	28.15	
H-3	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
NI-63	40.3	7.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47.5	23.75	
FE-55	12.1	2.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14.3	7.15	
SR-90	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.05	
TE-125m	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
CS-136	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
XE-133	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
C-14	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.05	
PU-241	0.7	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRU	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
FE-59	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
SB-124	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
RU-106	1.7	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.2	2.1	
CE-144	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	100	99.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	198.4	99.2	
CLASS C	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
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	0	0
CLASS A	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
CLASS A	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
CURIES	93.3	17.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111		
CU. FT.	120.3	120.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	240.6		
CU. M	3.4066	3.40658	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.8132		
RSR#	95-2014	95-2035	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Prepared by Oconee Nuclear Station - RP / RMC  
1/23/96

OCONEE NUCLEAR STATION SOLID RADWASTE REPORT																											
REPORT PERIOD: JANUARY - DECEMBER																											
WASTE TYPE: IRRADIATED COMPONENT																											
# OF LINERS SHIPPED TO C														2													
# OF SHIPMENTS TO CNSI														1													
ISOTOPE:														TOTAL AVE.													
% ABUNDANCE/LINER																											
CR-51	2.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.4	1.2	
MN-54	8.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.2	4.1	
CO-57	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	
CO-58	2.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.2	1.1	
CO-60	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	
NB-95	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	
ZR-95	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	
CS-134	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	
RU-103	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	
AG-110m	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	
SB-125	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	
I-131	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	
CS-137	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	
H-3	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	
NI-63	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.4	0.7	
FE-55	181.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	181.8	90.9	
SR-90	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	
TE-125m	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	
CS-136	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	
XE-133	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	
C-14	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	
PU-241	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	
TRU	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	
FE-59	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	
SB-124	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	
RU-106	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	
CE-144	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	
TA-182	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	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200	100	
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	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	0	0	0	
CLASS A	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	
CLASS A	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	
CURIES	64.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64.8		
CU. FT.	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15		
CU. M	0.424761	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4248		
RSR#	95-2037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		





[illegible]

OCONEE NUCLEAR STATION SOLID RADWASTE REPORT																										
REPORT PERIOD: JANUARY - DECEMBER																										
WASTE TYPE: SOLIDIFIED (CEMENT) OIL, ACIDS, SLUDGES																										
													# OF LINERS SHIPPED TO	0												
ISOTOPE:	% ABUNDANCE/LINER												# OF SHIPMENTS TO CN	0											TOTA AVE.	
CR-51	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	#DIV/0!
MN-54	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	#DIV/0!
CO-57	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	#DIV/0!
CO-58	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	#DIV/0!
CO-60	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	#DIV/0!
NB-95	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	#DIV/0!
ZR-95	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	#DIV/0!
CS-134	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	#DIV/0!
RU-103	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	#DIV/0!
AG-110m	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	#DIV/0!
SB-125	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	#DIV/0!
I-131	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	#DIV/0!
CS-137	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	#DIV/0!
H-3	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	#DIV/0!
NI-63	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	#DIV/0!
FE-55	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	#DIV/0!
SR-90	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	#DIV/0!
TE-125m	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	#DIV/0!
CS-136	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	#DIV/0!
XE-133	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	#DIV/0!
C-14	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	#DIV/0!
PU-241	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	#DIV/0!
TRU	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	#DIV/0!
FE-59	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	#DIV/0!
SB-124	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	#DIV/0!
RU-106	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	#DIV/0!
CE-144	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	#DIV/0!
CM-242	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	#DIV/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	#DIV/0!
TOTAL	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	#DIV/0!
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	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	0	0	0
CLASS A	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
CLASS A	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
CURIES	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
CU. FT.	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
CU. M	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
RSR#	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

**Duke Power Company**

**Oconee Nuclear Site**

**Attachment III**

**Meteorological Data**

OCONEE NUCLEAR STATION METEOROLOGY 260M AGL: 1995  
WIND SPEED\_DIRECTION\_STABILITY JOINT FREQUENCY DISTRIBUTION

10:16 Thursday, March 14, 1996 1

PASQUILL STABILITY A

SECTOR	WIND SPEED CLASS										TOTAL
	0.45- 1.49	1.50- 2.49	2.50- 3.49	3.50- 4.49	4.50- 5.49	5.50- 6.49	6.50- 7.49	7.50- 8.49	8.50- 9.49	>9.50 M/S	
	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	
-N-	3	6	1	4	1	.	2	.	.	.	17
-NNE-	2	7	12	6	4	.	1	.	.	.	32
-NE-	1	7	9	12	6	2	1	.	.	3	41
-ENE-	2	3	16	22	21	15	5	1	2	.	87
-E-	1	3	10	18	5	3	.	.	.	.	40
-ESE-	.	4	3	1	1	.	.	.	.	.	9
-SE-	1	1	2	.	.	.	.	.	.	.	4
-SSE-	2	4	1	.	1	.	1	.	.	.	9
-S-	.	2	5	.	1	.	.	.	.	.	8
-SSW-	4	20	38	28	9	1	.	.	.	.	100
-SW-	4	42	54	41	17	8	8	1	3	1	179
-WSW-	1	30	25	6	4	.	2	2	1	.	71
-W-	4	18	2	2	.	2	1	1	3	2	35
-WNW-	3	4	1	2	2	1	3	3	6	10	35
-NW-	1	4	2	.	1	1	.	.	1	2	12
-NNW-	3	4	5	3	1	1	.	.	.	.	17
TOTAL	32	159	186	145	74	34	24	8	16	18	696

OCONEE NUCLEAR STATION METEOROLOGY @60M AGL: 1995  
WIND SPEED\_DIRECTION\_STABILITY JOINT FREQUENCY DISTRIBUTION

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PASQUILL STABILITY B

SECTOR	WIND SPEED CLASS										TOTAL
	0.45- 1.49	1.50- 2.49	2.50- 3.49	3.50- 4.49	4.50- 5.49	5.50- 6.49	6.50- 7.49	7.50- 8.49	8.50- 9.49	>9.50 M/S	
	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	
-N-	.	5	2	.	.	1	.	.	.	.	8
-NNE-	3	14	2	1	.	1	.	.	.	.	21
-NE-	1	8	1	1	5	.	.	.	.	2	18
-ENE-	1	9	19	5	5	8	3	2	.	.	52
-E-	.	5	5	5	7	2	1	3	1	1	30
-ESE-	.	5	10	2	.	.	.	.	.	2	19
-SE-	.	3	1	.	.	.	.	.	.	.	4
-SSE-	1	2	1	.	.	.	.	.	.	.	4
-S-	1	6	8	2	2	.	.	.	.	.	19
-SSW-	2	26	33	20	14	3	.	.	.	2	100
-SW-	3	33	17	20	8	6	1	.	.	1	89
-WSW-	1	21	6	.	1	1	2	1	1	1	35
-W-	1	8	1	1	1	5	1	1	1	.	20
-WNW-	3	7	1	.	.	.	1	4	4	11	31
-NW-	.	2	1	1	1	.	.	.	1	4	10
-NNW-	2	4	1	.	.	.	1	.	1	.	9
TOTAL	19	158	109	58	44	27	10	11	9	24	469

OCOONEE NUCLEAR STATION METEOROLOGY @60M AGL: 1995  
WIND SPEED\_DIRECTION\_STABILITY JOINT FREQUENCY DISTRIBUTION

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PASQUILL STABILITY C

SECTOR	WIND SPEED CLASS										TOTAL
	0.45- 1.49	1.50- 2.49	2.50- 3.49	3.50- 4.49	4.50- 5.49	5.50- 6.49	6.50- 7.49	7.50- 8.49	8.50- 9.49	>9.50 M/S	
	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	
-N-	3	1	1	1	.	.	.	.	.	.	6
-NNE-	1	20	4	3	4	1	.	.	.	.	33
-NE-	1	5	2	7	7	.	.	.	.	.	22
-ENE-	.	18	11	5	8	5	.	.	.	3	50
-E-	1	5	7	12	6	3	5	.	.	1	40
-ESE-	1	9	7	2	1	.	.	.	.	.	20
-SE-	.	5	1	.	.	.	.	.	.	1	7
-SSE-	1	1	1	1	.	.	.	.	.	.	4
-S-	1	9	6	5	.	.	.	.	.	.	21
-SSW-	4	21	14	10	9	1	1	.	.	2	62
-SW-	13	31	19	14	8	6	14	4	4	3	116
-WSW-	9	15	5	2	1	1	6	3	1	2	45
-W-	9	7	.	.	2	3	1	.	1	3	26
-WNW-	6	9	.	.	1	3	2	5	3	6	35
-NW-	7	2	.	.	2	.	1	4	2	3	21
-NNW-	1	2	1	.	1	.	1	.	.	1	7
TOTAL	58	160	79	62	50	23	31	16	11	25	515

OCONEE NUCLEAR STATION METEOROLOGY @60M AGL: 1995  
WIND SPEED\_DIRECTION\_STABILITY JOINT FREQUENCY DISTRIBUTION

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PASQUILL STABILITY D

SECTOR	WIND SPEED CLASS										TOTAL
	0.45- 1.49	1.50- 2.49	2.50- 3.49	3.50- 4.49	4.50- 5.49	5.50- 6.49	6.50- 7.49	7.50- 8.49	8.50- 9.49	>9.50 M/S	
	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	
-N-	42	66	34	13	7	3	2	1	.	3	171
-NNE-	45	78	35	17	8	1	2	.	.	3	189
-NE-	34	61	81	63	33	18	3	3	1	4	301
-ENE-	21	54	68	94	49	25	2	3	1	18	335
-E-	18	45	56	61	37	19	3	1	.	12	252
-ESE-	20	32	17	9	3	1	.	.	.	5	87
-SE-	10	21	18	5	.	.	.	.	.	8	62
-SSE-	16	33	14	6	3	1	.	.	.	1	74
-S-	12	28	28	9	4	.	.	.	1	4	86
-SSW-	29	42	43	24	23	8	1	2	2	4	178
-SW-	26	53	61	50	43	52	49	21	20	26	401
-WSW-	35	49	50	16	32	33	22	23	14	26	300
-W-	30	27	21	11	19	11	22	11	7	7	166
-WNW-	46	30	26	14	29	38	28	14	10	12	247
-NW-	49	35	18	10	16	17	21	7	2	4	179
-NNW-	50	49	13	11	7	5	3	1	.	1	140
TOTAL	483	703	583	413	313	232	158	87	58	138	3168



OCONEE NUCLEAR STATION METEOROLOGY @60M AGL: 1995  
WIND SPEED\_DIRECTION\_STABILITY JOINT FREQUENCY DISTRIBUTION

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PASQUILL STABILITY E

SECTOR	WIND SPEED CLASS										TOTAL NØ.
	0.45- 1.49	1.50- 2.49	2.50- 3.49	3.50- 4.49	4.50- 5.49	5.50- 6.49	6.50- 7.49	7.50- 8.49	8.50- 9.49	>9.50 M/S	
	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	
-N-	74	245	83	8	2	.	.	.	.	.	412
-NNE-	58	246	100	14	4	.	.	.	.	9	431
-NE-	37	74	55	24	5	1	.	.	.	1	197
-ENE-	17	35	48	32	14	4	.	.	1	1	152
-E-	12	28	40	24	6	1	1	.	.	7	119
-ESE-	15	24	21	11	.	.	.	.	.	4	75
-SE-	19	12	26	7	.	.	.	2	.	1	67
-SSE-	14	11	17	10	2	.	.	1	1	2	58
-S-	12	19	16	20	6	2	.	.	.	.	75
-SSW-	22	25	41	32	21	5	.	.	.	5	151
-SW-	32	39	42	38	19	20	13	5	5	2	215
-WSW-	38	58	23	8	12	7	5	3	.	.	154
-W-	48	40	7	16	6	7	4	.	1	3	132
-WNW-	35	45	6	10	7	5	3	.	1	.	112
-NW-	60	78	17	9	3	3	1	.	1	.	172
-NNW-	67	126	46	10	1	.	.	.	1	.	251
-CALM-	6	.	.	.	.	.	.	.	.	.	6
TOTAL	566	1105	588	273	108	55	27	11	11	35	2779

OCONEE NUCLEAR STATION METEOROLOGY @60M AGL: 1995  
WIND SPEED\_DIRECTION\_STABILITY JOINT FREQUENCY DISTRIBUTION

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PASQUILL STABILITY F

SECTOR	WIND SPEED CLASS							TOTAL
	0.45- 1.49	1.50- 2.49	2.50- 3.49	3.50- 4.49	4.50- 5.49	5.50- 6.49	6.50- 7.49	
	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	
-N-	4	21	11	6	.	.	.	42
-NNE-	8	34	29	.	.	.	.	71
-NE-	5	10	2	.	.	.	.	17
-ENE-	4	8	3	3	.	.	.	18
-E-	3	1	3	3	.	.	.	10
-ESE-	2	3	3	3	.	.	.	11
-SE-	2	2	3	.	.	.	.	7
-SSE-	1	5	3	2	1	.	.	12
-S-	3	3	2	1	.	.	.	9
-SSW-	4	11	6	3	.	.	.	24
-SW-	5	7	12	7	4	.	1	36
-WSW-	6	7	12	4	1	4	1	35
-W-	3	5	4	1	1	1	.	15
-WNW-	3	6	3	2	.	.	.	14
-NW-	4	4	.	1	1	.	.	10
-NNW-	10	8	3	1	.	1	.	23
-CALM-	1	.	.	.	.	.	.	1
TOTAL	68	135	99	37	8	6	2	355

OCONEE NUCLEAR STATION METEOROLOGY 260M AGL: 1995  
WIND SPEED\_DIRECTION\_STABILITY JOINT FREQUENCY DISTRIBUTION

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PASQUILL STABILITY G

SECTOR	WIND SPEED CLASS							TOTAL
	0.45- 1.49	1.50- 2.49	2.50- 3.49	3.50- 4.49	4.50- 5.49	6.50- 7.49	7.50- 8.49	
	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	
-N-	.	1	2	.	.	.	.	3
-NNE-	.	2	1	.	.	.	.	3
-NE-	2	1	.	.	.	.	.	3
-ENE-	1	1	.	.	.	.	.	2
-E-	2	.	.	.	.	.	.	2
-ESE-	1	3	.	.	.	.	.	4
-SE-	2	1	.	.	.	.	.	3
-SSE-	.	2	.	.	.	.	.	2
-S-	1	3	2	.	.	.	.	6
-SSW-	2	2	1	1	.	.	.	6
-SW-	4	7	3	2	.	.	1	17
-WSW-	3	3	5	2	1	1	.	15
-W-	1	2	.	.	.	.	.	3
-WNW-	4	2	3	.	.	.	.	9
-NW-	3	1	.	.	.	1	.	5
-NNW-	1	1	.	.	.	.	.	2
TOTAL	27	32	17	5	1	2	1	85

OCONEE NUCLEAR STATION METEOROLOGY 260M AGL: 1995  
WIND SPEED\_DIRECTION\_STABILITY JOINT FREQUENCY DISTRIBUTION

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ALL STABILITY CLASSES

SECTOR	WIND SPEED CLASS										TOTAL
	0.45- 1.49	1.50- 2.49	2.50- 3.49	3.50- 4.49	4.50- 5.49	5.50- 6.49	6.50- 7.49	7.50- 8.49	8.50- 9.49	>9.50 M/S	
	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	
-N-	126	345	134	32	10	4	4	1	.	3	659
-NNE-	117	401	183	41	20	3	3	.	.	12	780
-NE-	81	166	150	107	56	21	4	3	1	10	599
-ENE-	46	128	165	161	97	57	10	6	4	22	696
-E-	37	87	121	123	61	28	10	4	1	21	493
-ESE-	39	80	61	28	5	1	.	.	.	11	225
-SE-	34	45	51	12	.	.	.	2	.	10	154
-SSE-	35	58	37	19	7	1	1	1	1	3	163
-S-	30	70	67	37	13	2	.	.	1	4	224
-SSW-	67	147	176	118	76	18	2	2	2	13	621
-SW-	87	212	208	172	99	92	86	32	32	33	1053
-WSW-	93	183	126	38	52	46	39	32	17	29	655
-W-	96	107	35	31	29	29	29	13	13	15	397
-WNW-	100	103	40	28	39	47	37	26	24	39	483
-NW-	124	126	38	21	24	21	24	11	7	13	409
-NNW-	134	194	69	25	10	7	5	1	2	2	449
-CALM-	7	.	.	.	.	.	.	.	.	.	7
TOTAL	1253	2452	1661	993	598	377	254	134	105	240	8067

**Duke Power Company**

**Oconee Nuclear Site**

**Attachment IV**

**Unplanned Offsite Releases**

**There were no unplanned offsite releases in 1995.**

**Duke Power Company**

**Oconee Nuclear Site**

**Attachment V**

**Inoperable Monitoring Equipment**

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



**Duke Power Company**

**Oconee Nuclear Site**

**Attachment VI**

**ODCM / PCP Manual Changes**

## OCONEE NUCLEAR SITE

Revision 10 was made to the Process Control Program Manual (PCP) during this reporting period and was transmitted to the Document Control Manual on December 14, 1995.

The following revisions were made to the Offsite Dose Calculation Manual (ODCM) during this reporting period and were transmitted to the Document Control Manual on January 2, 1996:

Revision 39 Generic Section

Revision 36 Oconee Nuclear Station