Duke Power Company

Oconee Nuclear Site

Attachment I

Radioactive Effluent Releases and Supplemental Information

OCONEE NUCLEAR STATION

1996 RADIOACTIVE LIQUID EFFLUENT RELEASES

I. LIQUID RELEASES

	UNITS	1ST QTR	2ND QTR	3RD QTR	4TH QTR	TOTAL
1. GROSS RADIOACTIVITY						
A. TOTAL RELEASE	CURIES	1.62E-02	1.54E-01	5.20E-02	1.13E-01	3.35E-01
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	4.77E-11	7.44E-10	2.34E-10	5.16E-10	3.39E-10
C. MAXIMUM CONCENTRATION RELEASED	UCI/ML	4.59E-09	2.90E-08	7.18E-09	1.94E-08	2.90E-08
2. TRITIUM						
A. TOTAL RELEASE	CURIES	1.59E+02	3.92E+02	2.09E+02	1.16E+02	8.77E+02
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	4.66E-07	1.90E-06	9.41E-07	5.31E-07	8.87E-07
3. DISSOLVED NOBLE GASES						
A. TOTAL RELEASE	CURIES	8.25E-04	5.98E-03	1.30E-02	4.84E-03	2.46E-02
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	2.42E-12	2.90E-11	5.82E-11	2.21E-11	2.49E-11
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	5.22E+08	4.46E+08	3.70E+08	4.08E+08	1.75E+09
6. VOLUME OF DILUTION WATER	LITERS	3.40E+11	2.07E+11	2.23E+11	2.19E+11	9.88E+11

7. RADIONUCLIDES RELEASED	CURIES						10CFR20 EC RATIO
H-3		1.59E+02	3.92E+02	2.09E+02	1.16E+02	8.77E+02	8.87E-04
CR-51		0.00E+00	1.91E-02	2.25E-04	4.29E-03	2.37E-02	4.79E-08
MN-54		0.00E+00	5.36E-04	6.05E-05	0.00E+00	5.96E-04	2.01E-08
FE-59		0.00E+00	1.46E-04	0.00E+00	3.59E-04	5.05E-04	5.11E-08
CO-57		0.00E+00	2.10E-04	0.00E+00	0.00E+00	2.10E-04	3.55E-09
CO-58		5.12E-04	4.54E-02	3.14E-03	2.96E-02	7.87E-02	3.98E-06
CO-60		1.85E-04	8.04E-03	2.07E-03	2.94E-03	1.32E-02	4.46E-06
NB-95		0.00E+00	4.26E-03	3.44E-04	1.36E-03	5.96E-03	2.01E-07
ZR-95		0.00E+00	3.20E-03	1.34E-04	1.02E-03	4.36E-03	2.20E-07
MO-99		0.00E+00	0.00E+00	0.00E+00	2.64E-04	2.64E-04	1.34E-08
TC-99M		0.00E+00	0.00E+00	0.00E+00	2.57E-04	2.57E-04	2.60E-10
RU-103		0.00E+00	1.64E-04	0.00E+00	4.17E-04	5.81E-04	1.96E-08
RU-106		0.00E+00	1.23E-03	1.02E-03	0.00E+00	2.25E-03	7.59E-07
AG-110M		3.10E-04	1.64E-02	9.72E-03	2.22E-02	4.86E-02	8.20E-06
I-131		4.54E-05	1.90E-04	1.17E-03	4.26E-03	5.66E-03	5.73E-06
I-132		0.00E+00	0.00E+00	0.00E+00	1.92E-04	1.92E-04	1.94E-09
I-133		2.82E-05	0.00E+00	1.39E-04	1.33E-05	1.81E-04	2.61E-08
SB-124		4.60E-04	2.09E-03	7.71E-05	7.59E-04	3.39E-03	4.90E-07
SB-125		1.42E-02	4.60E-02	2.59E-02	3.37E-02	1.20E-01	4.04E-06
SN-113		0.00E+00	1.01E-05	0.00E+00	1.83E-04	1.93E-04	6.51E-09
TE-125M		0.00E+00	0.00E+00	2.40E-03	0.00E+00	2.40E-03	1.21E-07
TE-132		0.00E+00	0.00E+00	0.00E+00	2.80E-04	2.80E-04	3.14E-08
CS-134		2.07E-04	1.20E-03	1.08E-03	1.72E-03	4.20E-03	4.73E-06
CS-137		2.76E-04	4.55E-03	3.57E-03	5.55E-03	1.39E-02	1.41E-05
LA-140		0.00E+00	1.37E-04	7.10E-05	3.56E-03	3.77E-03	4.23E-07
CE-141		0.00E+00	0.00E+00	0.00E+00	2.46E-05	2.46E-05	8.31E-10
CE-144		0.00E+00	8.90E-04	9.31E-04	0.00E+00	1.82E-03	6.14E-07
KR-85		0.00E+00	0.00E+00	0.00E+00	2.34E-03	2.34E-03	2.37E-08
XE-133		7.03E-04	5.84E-03	1.22E-02	2.47E-03	2.12E-02	2.15E-07
XE-135		1.22E-04	1.46E-04	7.34E-04	2.59E-05	1.03E-03	1.04E-08

TOTAL 10CFR20 EC RATIO = 9.35E-04

Oconee Nuclear Station
Radioactive Effluent Releases
10CFR50, Appendix I Dose Calculation Results

Maximum Public Dose from 1996 1st Quarter Liquid Effluent Releases

Organ	Maximum Dose (mrem)	Critical Age	Critical Pathway	Major Contributors	
Skin	6.17E-05	Teen	Shore	Sb-125	76.62%
				Co-60	9.56%
				Cs-137	6.78%
Bone	7.01E-03	Child	Fish	Cs-137	64.99%
				Cs-134	34.85%
Liver	9.81E-03	Teen	Fish	Cs-137	49.08%
				Cs-134	48.60%
Total Body	7.11E-03	Adult	Fish	Cs-134	54.04%
				Cs-137	42.56%
Thyroid	2.61E-04	Adult	Fish	H-3	88.71%
				I-131	7.17%
Kidney	3.38E-03	Teen	Fish	Cs-137	48.48%
				Cs-134	44.81%
				H-3	5.26%
Lung	1.45E-03	Teen	Fish	Cs-137	44.21%
				Cs-134	40.09%
				H-3	12.31%
GI-LLI	4.30E-04	Adult	Fish	H-3	53.85%
				Cs-137	20.94%
				Cs-134	19.20%

Oconee Nuclear Station
Radioactive Effluent Releases
10CFR50, Appendix I Dose Calculation Results

Maximum Public Dose from 1996 2nd Quarter Liquid Effluent Releases

Organ	Maximum Dose (mrem)	Critical Age	Critical Pathway	Major Contributors	
Skin	9.95E-04	Teen	Shore	Co-60	42.36%
				Ag-110m	13.76%
				Sb-125	25.31%
				Cs-137	11.40%
Bone	1.47E-01	Child	Fish	Cs-137	84.03%
				Cs-134	15.84%
Liver	1.78E-01	Teen	Fish	Cs-137	73.51%
				Cs-134	25.60%
Total Body	1.20E-01	Adult	Fish	Cs-137	68.42%
				Cs-134	30.55%
Thyroid	1.70E-03	Teen	Shore	H-3	42.49%
				Co-60	21.06%
				Sb-125	13.11%
				I-131	7.08%
				Ag-110m	6.90%
				Cs-137	5.72%
Kidney	6.05E-02	Teen	Fish	Cs-137	73.61%
				Cs-134	23.93%
Lung	2.44E-02	Teen	Fish	Cs-137	71.25%
				Cs-134	22.72%
GI-LLI	7.24E-02	Adult	Fish	Nb-95	91.88%

Oconee Nuclear Station
Radioactive Effluent Releases
10CFR50, Appendix I Dose Calculation Results

Maximum Public Dose from 1996 3rd Quarter Liquid Effluent Releases

Organ	Maximum Dose (mrem)	Critical Age	Critical Pathway	Major Contributors	
Skin	4.15E-04	Teen	Shore	Sb-125	32.02%
				Co-60	24.51%
				Cs-137	20.10%
				Ag-110m	18.32%
Bone	1.11E-01	Child	Fish	Cs-137	82.11%
				Cs-134	17.76%
Liver	1.35E-01	Teen	Fish	Cs-137	71.10%
				Cs-134	28.40%
Total Body	9.20E-02	Adult	Fish	Cs-137	65.74%
				Cs-134	33.67%
Thyroid	1.44E-03	Teen	Fish	I-131	48.20%
				H-3	25.05%
				Sb-125	8.17%
				Co-60	6.00%
Kidney	4.56E-02	Teen	Fish	Cs-137	71.82%
				Cs-134	26.78%
Lung	1.81E-02	Teen	Fish	Cs-137	70.64%
				Cs-134	25.84%
GI-LLI	8.52E-03	Adult	Fish	Nb-95	59.14%
				Cs-137	21.11%
				Cs-134	7.81%
				H-3	5.52%

Oconee Nuclear Station
Radioactive Effluent Releases
10CFR50, Appendix I Dose Calculation Results

Maximum Public Dose from 1996 4th Quarter Liquid Effluent Releases

Organ	Maximum Dose (mrem)	Critical Age	Critical Pathway	Major Contributors	
Skin	6.89E-04	Teen	Shore	Ag-110m	25.70%
				Sb-125	25.60%
				Co-60	21.38%
				Cs-137	19.20%
Bone	1.76E-01	Child	Fish	Cs-137	81.80%
				Cs-134	18.13%
Liver	2.15E-01	Teen	Fish	Cs-137	70.72%
				Cs-134	28.94%
Total Body	1.46E-01	Adult	Fish	Cs-137	65.39%
				Cs-134	34.31%
Thyroid	3.38E-03	Teen	Fish	I-131	76.25%
				H-3	6.04%
Kidney	7.24E-02	Teen	Fish	Cs-137	71.65%
				Cs-134	27.36%
Lung	2.85E-02	Teen	Fish	Cs-137	71.04%
				Cs-134	26.62%
GI-LLI	2.57E-02	Adult	Fish	Nb-95	79.00%
				Cs-137	11.09%

Oconee Nuclear Station
Radioactive Effluent Releases
10CFR50, Appendix I Dose Calculation Results

Maximum Public Dose from 1996 Liquid Effluent Releases

Organ	Maximum Dose (mrem)	Critical Age	Critical Pathway	Major Contributors	
Skin	1.91E-03	Teen	Shore	Co-60	30.65%
				Sb-125	29.10%
				Ag-110m	17.96%
				Cs-137	15.35%
Bone	3.88E-01	Child	Fish	Cs-137	82.15%
				Cs-134	17.75%
Liver	4.75E-01	Teen	Fish	Cs-137	71.04%
				Cs-134	28.35%
Total Body	3.23E-01	Adult	Fish	Cs-137	65.69%
				Cs-134	33.61%
Thyroid	6.07E-03	Teen	Fish	I-131	49.89%
				H-3	22.49%
				Co-60	8.18%
				Sb-125	8.10%
Kidney	1.61E-01	Teen	Fish	Cs-137	71.60%
				Cs-134	26.66%
Lung	6.39E-02	Teen	Fish	Cs-137	70.12%
				Cs-134	25.62%
GI-LLI	9.21E-02	Adult	Fish	Nb-95	85.39%
				Cs-137	6.85%

OCONEE NUCLEAR STATION

1996 RADIOACTIVE GAS EFFLUENT RELEASES

II. AIRBORNE RELEASES

		UNITS	1ST QTR	2ND QTR	3RD QTR	4TH QTR	TOTAL	
1.	TOTAL NOBLE GASES	CURIES	6.97E+00	1.39E+01	2.52E+01	4.51E+01	9.11E+01	
2.	TOTAL HALOGENS	CURIES	2.85E-04	6.22E-04	1.70E-03	5.32E-03	7.93E-03	
3.	TOTAL PARTICULATE GROSS BETA-GAMMA	CURIES	2.18E-02	3.91E-04	1.36E-03	2.57E-04	2.38E-02	
4.	TOTAL TRITIUM	CURIES	8.36E+00	3.52E+01	1.32E+01	1.48E+01	7.16E+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						MAX SITE BOUNDARY 10CFR20 EC RATIO
	H-3		8.36E+00	3.52E+01	1.32E+01	1.48E+01	7.16E+01	3.79E-05
	PARTICULATES							
	MN-54		0.00E+00	0.00E+00	2.01E-07	0.00E+00	2.01E-07	1.07E-11
	CO-57		0.00E+00	0.00E+00	0.00E+00	6.10E-08	6.10E-08	3.59E-12
	CO-58		0.00E+00	1.56E-06	0.00E+00	5.95E-07	2.15E-06	1.14E-10
	CO-60		0.00E+00	1.09E-06	0.00E+00	0.00E+00	1.09E-06	1.15E-09
	RB-88		2.11E-02	2.41E-04	1.06E-04	1.39E-04	2.16E-02	1.27E-08
	MO-99		0.00E+00	0.00E+00	0.00E+00	2.86E-07	2.86E-07	7.58E-12
	TC-99M		0.00E+00	0.00E+00	0.00E+00	2.78E-07	2.78E-07	7.36E-14
	CS-134		3.20E-06	1.12E-06	4.19E-07	8.20E-06	1.29E-05	3.43E-09
	CS-136		0.00E+00	0.00E+00	0.00E+00	1.25E-06	1.25E-06	7.35E-11
	CS-137		2.71E-05	9.31E-05	2.60E-05	1.07E-04	2.53E-04	6.71E-08
	CS-138		7.12E-04	5.29E-05	1.23E-03	0.00E+00	2.00E-03	1.32E-09
	HALOGENS							
	I-131		3.07E-05	5.32E-05	1.88E-04	3.28E-03	3.55E-03	9.41E-07
	I-132		7.87E-05	7.24E-05	3.03E-04	1.08E-03	1.53E-03	4.05E-09
	I-133		1.76E-04	4.92E-04	9.39E-04	7.08E-04	2.31E-03	1.23E-07
	I-134		0.00E+00	1.43E-06	0.00E+00	0.00E+00	1.43E-06	1.26E-12
	I-135		0.00E+00	2.97E-06	2.67E-04	2.62E-04	5.31E-04	4.69E-09
	GASES							
	AR-41		1.59E-02	4.37E-02	4.73E-02	0.00E+00	1.07E-01	5.67E-07
	KR-85		0.00E+00	3.55E-02	8.04E-02	1.08E+00	1.19E+00	9.04E-08
	KR-85M		9.63E-02	9.82E-04	7.31E-04	1.84E-03	9.99E-02	5.29E-08
	KR-87		0.00E+00	0.00E+00	2.65E-04	0.00E+00	2.65E-04	7.03E-10
	KR-88		0.00E+00	6.80E-04	6.10E-04	0.00E+00	1.29E-03	7.59E-09
	XE-131M		0.00E+00	4.21E-03	0.00E+00	2.45E-01	2.50E-01	6.61E-09
	XE-133		5.49E+00	8.70E+00	2.16E+01	4.25E+01	7.83E+01	8.29E-06
	XE-133M		9.02E-02	9.12E-03	0.00E+00	7.90E-02	1.78E-01	1.57E-08
	XE-135		1.27E+00	5.08E+00	3.48E+00	1.19E+00	1.10E+01	8.35E-06
	XE-135M		0.00E+00	5.75E-04	4.16E-04	0.00E+00	9.92E-04	1.31E-09
							MAX SITE BOUNDARY 10CFR20 TOTAL EC RATIO =	5.65E-05

Oconee Nuclear Station
Radioactive Effluent Releases
10CFR50, Appendix I Dose Calculation Results

Maximum Public Dose from 1996 1st Quarter Gaseous Effluent Releases

NOBLE GAS EXPOSURE SUMMARY:

Maximum Location: Site Boundary (1.0 mile), South-West Sector

Beta Air Dose = 4.91E-04 mrad
Gamma Air Dose = 2.48E-04 mrad

Total Body Dose = 1.56E-04 mrem

Major Contributors

Xe-135 54.90%
Xe-133 38.52%

Total Skin Dose = 4.22E-04 mrem

Major Contributors

Xe-135 53.56%
Xe-133 40.10%

IODINE, PARTICULATE, and TRITIUM EXPOSURE SUMMARY:

Maximum Location: Site Boundary (1.0 mile), South-South-East Sector

Maximum Organ: Thyroid
Critical Age: Child
Critical Pathway: Garden Vegetable (contributing 76.80% of dose)

Maximum Organ Dose = 4.17E-03 mrem

Major Contributor

H-3 95.57%

Oconee Nuclear Station
Radioactive Effluent Releases
10CFR50, Appendix I Dose Calculation Results

Maximum Public Dose from 1996 2nd Quarter Gaseous Effluent Releases

NOBLE GAS EXPOSURE SUMMARY:

Maximum Location: Site Boundary (1.0 mile), South-West Sector

Beta Air Dose = 1.23E-03 mrad
Gamma Air Dose = 7.26E-04 mrad

Total Body Dose = 4.65E-04 mrem

Major Contributors

Xe-135 73.36%
Xe-133 23.42%

Total Skin Dose = 1.24E-03 mrem

Major Contributors

Xe-135 72.94%
Xe-133 24.86%

IODINE, PARTICULATE, and TRITIUM EXPOSURE SUMMARY:

Maximum Location: Site Boundary (1.0 mile), South-West Sector

Maximum Organ: Liver
Critical Age: Child
Critical Pathway: Garden Vegetable (contributing 77.16% of dose)

Maximum Organ Dose = 1.17E-02 mrem

Major Contributors

H-3 88.32%
Cs-137 11.44%

Oconee Nuclear Station
Radioactive Effluent Releases
10CFR50, Appendix I Dose Calculation Results

Maximum Public Dose from 1996 3rd Quarter Gaseous Effluent Releases

NOBLE GAS EXPOSURE SUMMARY:

Maximum Location: Site Boundary (1.0 mile), South-West Sector

Beta Air Dose = 1.67E-03 mrad
Gamma Air Dose = 7.82E-04 mrad

Total Body Dose = 4.86E-04 mrem

Major Contributors

Xe-133 48.55%
Xe-135 48.14%

Total Skin Dose = 1.31E-03 mrem

Major Contributors

Xe-133 50.55%
Xe-135 47.04%

IODINE, PARTICULATE, and TRITIUM EXPOSURE SUMMARY:

Maximum Location: Site Boundary (1.0 mile), South-West Sector

Maximum Organ: Liver
Critical Age: Child
Critical Pathway: Garden Vegetable (contributing 78.71% of dose)

Maximum Organ Dose = 7.64E-03 mrem

Major Contributors

H-3 69.58%
I-131 24.50%

Oconee Nuclear Station
Radioactive Effluent Releases
10CFR50, Appendix I Dose Calculation Results

Maximum Public Dose from 1996 4th Quarter Gaseous Effluent Releases

NOBLE GAS EXPOSURE SUMMARY:

Maximum Location: Site Boundary (1.0 mile), South-West Sector

Beta Air Dose = 2.71E-03 mrad
Gamma Air Dose = 9.40E-04 mrad

Total Body Dose = 5.57E-04 mrem

Major Contributors

Xe-133 85.24%
Xe-135 14.34%

Total Skin Dose = 1.65E-03 mrem

Major Contributors

Xe-133 81.65%
Xe-135 12.82%

IODINE, PARTICULATE, and TRITIUM EXPOSURE SUMMARY:

Maximum Location: Site Boundary (1.0 mile), North-East Sector

Maximum Organ: Thyroid
Critical Age: Child
Critical Pathway: Garden Vegetable (contributing 90.80% of dose)

Maximum Organ Dose = 4.27E-02 mrem

Major Contributors

I-131 85.47%
H-3 12.77%

Oconee Nuclear Station
Radioactive Effluent Releases
10CFR50, Appendix I Dose Calculation Results

Maximum Public Dose from 1996 Gaseous Effluent Releases

NOBLE GAS EXPOSURE SUMMARY:

Maximum Location: Site Boundary (1.0 mile), South-West Sector

Beta Air Dose = 6.10E-03 mrad
Gamma Air Dose = 2.70E-03 mrad

Total Body Dose = 1.66E-03 mrem

Major Contributors

Xe-133 52.91%
Xe-135 44.46%

Total Skin Dose = 4.61E-03 mrem

Major Contributors

Xe-133 53.84%
Xe-135 42.34%

IODINE, PARTICULATE, and TRITIUM EXPOSURE SUMMARY:

Maximum Location: Site Boundary (1.0 mile), South-West Sector

Maximum Organ: Thyroid
Critical Age: Child
Critical Pathway: Garden Vegetable (contributing 83.48% of dose)

Maximum Organ Dose = 6.44E-02 mrem

Major Contributors

I-131 57.36%
H-3 39.58%

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

Maximum Total Body Dose = 3.25E-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 = 3.23E-01 mrem = 99.4% of total

Critical Path = Fish (99.6%)
Major Contributors = Cs-137 (65.4%)
Cs-134 (33.4%)

Gas Effluent Dose = 1.66E-03 mrem = 0.6% of total

Major Contributors = Xe-133 (52.9%)
Xe-135 (44.4%)

Maximum Organ Dose = 4.98E-01 mrem

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

Liquid and Gas Effluent Contribution to Maximum Organ Dose

Liquid Effluent Dose = 4.75E-01 mrem = 95.3% of total

Critical Path = Fish (99.5%)
Major Contributors = Cs-137 (70.9%)
Cs-134 (28.2%)

Gas Effluent Dose = 2.31E-02 mrem = 4.7% of total

Critical Path = Garden (66.7%)
Major Contributor = H-3 (95.1%)

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

SUPPLEMENTAL INFORMATION

OCONEE NUCLEAR STATION
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. 1.71E+02 = TOTAL NUMBER OF BATCH RELEASES
2. 5.15E+05 = TOTAL TIME(MIN.) FOR BATCH RELEASES.
3. 4.46E+04 = MAXIMUM TIME(MIN.) FOR A BATCH RELEASE.
4. 3.01E+03 = AVERAGE TIME(MIN.) FOR A BATCH RELEASE.
5. 1.00E+01 = MINIMUM TIME(MIN.) FOR A BATCH RELEASE.
6. 7.26E+06 = AVERAGE DILUTION WATER FLOW DURING RELEASES(GPM).

B. GASEOUS EFFLUENT
1. 2.15E+02 = TOTAL NUMBER OF BATCH RELEASES.
2. 7.71E+05 = TOTAL TIME(MIN.) FOR BATCH RELEASES.
3. 4.46E+04 = MAXIMUM TIME(MIN.) FOR A BATCH RELEASE.
4. 3.58E+03 = AVERAGE TIME(MIN.) FOR A BATCH RELEASE.
5. 1.00E+00 = 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

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:

ISOTOPE	ENERGY (Kev)	AVERAGE MDA
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 ± 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 = ± 5%

(2) Counting error = ± 15%

(3) Sample preparation error = ± 3%

Duke Power Company

Oconee Nuclear Site

Attachment II

Solid Waste Disposal Report

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

REPORT PERIOD: JANUARY - DECEMBER **YEAR:** **1996**

TYPES OF WASTE SHIPPED		NUMBER OF SHIPMENTS	NUMBER OF CONTAINERS	WASTE CLASS A-U	A-S	B	C	CONTAINER TYPE	BURIAL VOLUME CU. FT.	CU. M.	TOTAL ACTIVITY CURIES
1) WASTE FROM LIQUID SYSTEM											
(A) DEWATERED POWDEX RESIN		73	73	73	0	0	0	STC	266.3	7.54	2.40
(B) DEWATERED BEAD RESIN		2	2	0	1	1	0	TYPE A/B	240.6	6.81	55.55
(C) EVAPORATOR CONCENTRATES		0	0	0	0	0	0		0	0.00	0.00
(D) DEWATERED MECHANICAL FILTERS											
1. PRIMARY FILTER MEDIA		3	19	14	0	0	5	TYPE A/B	296.5	8.40	23.86
2. SECONDARY FILTER MEDIA		3	3	3	0	0	0	STC	103.1	2.92	0.04
(E) DEWATERED DEMINERALIZERS		2	2	0	0	0	2	TYPE A	240.6	6.81	46.10
(F) SOLIDIFIED (CEMENT) OIL, ACIDS,SLUDGES		1	6	0	6	0	0	STC	45	1.27	0.00
2) DRY SOLID WASTE											
(A) DRY ACTIVE WASTE (COMPACTED)	(1)	70	70	70	0	0	0	STC	948.1	26.85	2.51
	(2)	13	13	13	0	0	0	STC	637.13	18.04	0.70
	(3)	2	2	2	0	0	0	STC	83.63	2.37	0.19
(B) DRY ACTIVE WASTE (NON-COMPACTED)		1	1	0	0	0	1	TYPE A	38.3	1.08	6.11
(C) DRY ACTIVE WASTE (BROKERED)		0	0	0	0	0	0		0	0.00	0.00
(D) IRRADIATED COMPONENTS		0	0	0	0	0	0		0	0.00	0.00
TOTAL		170	191	175	7	1	8		2899.26	82.10	137.45

NOTE: (1) SHIPMENTS FROM ALARON & SEG TO CNSI @ BARNWELL (DAW)
(2) SHIPMENT FROM ALARON TO CNSI @ BARNWELL (METAL)
(3) SHIPMENTS FROM AMERICAN ECOLOGY TO CNSI @ BARNWELL (DAW)

			OCONEE NUCLEAR STATION SOLID RADWASTE REPORT																					
			REPORT PERIOD: JANUARY - DECEMBER																					
			WASTE TYPE: POWDEX RESIN																					
									# OF LINERS SHIPPED TO SEG					18		# OF SHIPMENTS TO SEG					6			
ISOTOPE:			% ABUNDANCE/LINER						# OF LINERS SHIPPED TO CNSI					73		# OF SHIPMENTS TO CNSI					73		TOTAL	AVE.
CR-51	0	0	0	0	0	0	0	0	0	0	21.98	0	0	0	0	0	0	0	0	0	0	0	21.98	1.22
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	0.00
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	0.00
CO-58	10.5	3.51	0	0	0	0	0	0	0	0	101.38	77.16	83.52	0	0	0	0	0	0	0	0	0	276.07	15.34
CO-60	1.95	5.91	6.57	0	0	0	0	0	0	0	4.34	5.25	8.94	0	0	0	0	0	0	0	0	0	32.96	1.83
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	0.00
ZR-95	0	0	0	0	0	0	0	0	0	0	4.79	0	3.45	0	0	0	0	0	0	0	0	0	8.24	0.46
CS-134	22.95	16.98	20.13	0	0	0	0	0	0	0	10.64	15.57	15.78	0	0	0	0	0	0	0	0	0	102.05	5.67
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	0.00
AG-110m	6.84	20.79	25.56	0	0	0	0	0	0	0	37.19	34.5	44.79	0	0	0	0	0	0	0	0	0	169.67	9.43
SB-125	187.8	99.06	84.18	0	0	0	0	0	0	0	53.62	50.73	43.14	0	0	0	0	0	0	0	0	0	518.53	28.81
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	0.00
CS-137	62.37	47.07	52.56	0	0	0	0	0	0	0	34.66	64.98	65.55	0	0	0	0	0	0	0	0	0	327.19	18.18
H-3	0	106.71	111	0	0	0	0	0	0	0	30.38	51.78	34.86	0	0	0	0	0	0	0	0	0	334.73	18.60
NI-63	3.24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.24	0.18
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	0.00
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	0.00
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	0.00
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	0.00
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	0.00
C-14	0.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.42	0.02
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	0.00
TRU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
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	0.00
SB-124	3.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.9	0.22
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	0.00
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	0.00
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
TOTAL	299.97	300.03	300	0	0	0	0	0	0	0	298.98	299.97	300.03	0	0	0	0	0	0	0	0	0	1798.98	99.94
CLASS C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CLASS B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CLASS A	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	
CURIES	0.0806	0	0.004	0.48	0.169	0.1144	0.42	0.233	0.102	0.668	0.116	0.011	0	0	0	0	0	0	0	0	0	0	2.398	
CU. FT.	30.2	0	6.9	46.9	9.8	29.7	41.9	40	16.9	10.7	18.5	14.8	0	0	0	0	0	0	0	0	0	0	266.3	
CU. M	0.8552	0	0.1954	1.3281	0.2775	0.841	1.1865	1.1327	0.4786	0.303	0.5239	0.4191	0	0	0	0	0	0	0	0	0	0	7.540919	
RSR#	96-2001	96-2002	96-2003	95-2012	95-2022	95-2030	95-2040	95-2055	95-2036	95-2013	96-2016	96-2021	96-2040	0	0	0	0	0	0	0	0	0		

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

OF LINERS SHIPPED TO CNSI: 2

ISOTOPE:			% ABUNDANCE/LINER							# OF SHIPMENTS TO CNSI						2						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	0.00
MN-54	1.7	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.9	1.45
CO-57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
CO-58	12.7	4.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16.8	8.40
CO-60	7	8.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15.3	7.65
NB-95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
ZR-95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
CS-134	7.7	5.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.6	6.80
RU-103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
AG-110m	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SB-125	0	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.4	0.70
I-131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
CS-137	18.6	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35.6	17.80
H-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
NI-63	42.2	50.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92.3	46.15
FE-55	9.4	11.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20.5	10.25
SR-90	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	0.00
CS-136	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
XE-133	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
C-14	0.7	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.6	0.80
PU-241	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
TRU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
FE-59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SB-124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
RU-106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
CE-144	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
TOTAL	100.1	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200.1	100.05
CLASS C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CLASS B	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
CLASS A	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
CLASS A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CURIES	47.9	7.65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55.55	
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	240.6	
CU. M	3.403978	3.406581	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.8106	
RSR#	96-2025	96-2033	0	0	0																		

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

# OF SHIPMENTS FROM ONS TO SEG	7	# OF CONTAINERS FROM ONS TO SEG	13
# OF SHIPMENTS FROM ONS TO ALARON	0	# OF CONTAINERS FROM ONS TO ALARON	0
# OF SHIPMENTS FROM SEG TO CNSI	70	# OF CONTAINERS FROM SEG TO CNSI	70
# OF SHIPMENTS FROM ALARON TO CNSI	0	# OF CONTAINERS FROM ALARON TO CNSI	0
TOTAL # OF SHIPMENTS TO CNSI	70	TOTAL # OF CONTAINERS SHIPPED	70

RSR #	CU. FT.. SHIPPED	CURIES SHIPPED	CU. FT.. TO CNSI	CURIES TO CNSI	COMPLETED
95-2043	0	0	64.8	0.18422	
95-2059	0	0	86.1	0.282	
96-2007	2042.5	0.104	94.9	0.108	
94-2012	0	0	12.3	0.003	
95-2020	0	0	114	0.341	
95-2031	0	0	9.7	0.052	
96-2011	2080	0.44	72.5	0.435	
95-2051	0	0	3.3	0.158	
96-2020	2080	0.467	22.7	0.3	
96-2026	1712	0.065	93.1	0.065	
92-2047	0	0	0.1	0.00001	
95-2023	0	0	5.2	0.018	
96-2032	2080	0.052	147.7	0.052	
96-2036	1040	0.414	56.3	0.413	
96-2038	1988	0.185	113.6	0.089	
96-2045	2080	0.252	0	0	
92-2049	0	0	51.8	0.006	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	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	15102.5	1.979	948.1	2.50623	

TOTAL CURIES BURIED	2.50623
TOTAL CUBIC FEET BURIED	948.1
TOTAL CUBIC METERS	26.84771

OCONEE NUCLEAR STATION SOLID RADWASTE REPORT
REPORT PERIOD: JANUARY - DECEMBER YEAR: 1996
WASTE TYPE: UNCOMPACTED DAW

OF SHIPMENTS FROM ONS TO CNSI 1
OF CONTAINERS FROM ONS TO CNSI 1

RSR NUMBER	FEET	CURIES	A-U	A-S	B	C
96-2023	38.3	6.11	0	0	0	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	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	38.3	6.11	0	0	0	1

TOTAL CUBIC METERS 1.084556

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

# OF SHIPMENTS FROM ONS TO AMERICAN ECOLOGY	0	# OF SHIPMENTS FROM AMERICAN ECOLOGY TO CNSI	2
# OFCONTAINERS FROM ONS TO AMERICAN ECOLOGY	0	# OFCONTAINERS FROM AMERICAN ECOLOGY TO CNSI	2

RSR #	CU. FT.. SHIPPED	CURIES SHIPPED	CU. FT.. TO CNSI	CURIES TO CNSI	COMPLETED
94-2073	0	0	83.63	0.1947	
	0	0	0	0	
	0	0	0	0	
	0	0	0	0	
	0	0	0	0	
	0	0	0	0	
	0	0	0	0	
	0	0	0	0	
	0	0	0	0	
	0	0	0	0	
	0	0	0	0	
	0	0	0	0	
	0	0	0	0	
	0	0	0	0	
	0	0	0	0	
	0	0	0	0	
	0	0	0	0	
	0	0	0	0	
	0	0	0	0	
	0	0	0	0	
	0	0	0	0	
	0	0	0	0	
	0	0	0	0	
	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	0	0	83.63	0.1947	

TOTAL CURIES BURIED	0.1947
TOTAL CUBIC FEET BURIED	83.63
TOTAL CUBIC METERS	2.368183

OCONEE NUCLEAR STATION SOLID RADWASTE REPORT
REPORT PERIOD: JANUARY - DECEMBER
WASTE TYPE: DECON METAL (ALARON,CNSI,SEG)

OF SHIPMENTS TO DECON FACILITY 3
OF CONTAINERS TO DECON FACILITY 3
OF SHIPMENTS TO CNSI 13
OF CONTAINERS TO CNSI 13

RSR #	CU. FT.. TO ALARON	CURIES TO ALARON	CU. FT. TO SEG	CURIES TO SEG	CU. FT.. TO CNSI	CURIES TO CNSI	COMPLETED
96-2008	1040	0.058	0	0	72.4	0.045	
96-2009	1040	0.118	0	0	36.2	0.059	
96-2024	1040	0.08	0	0	96	0.039	
95-2017	0	0	0	0	40	0.008	
95-2027	0	0	0	0	237.3	0.033	
95-2028	0	0	0	0	55.7	0.003	
95-2042	0	0	0	0	15.9	0.004	
94-2073	0	0	0	0	41.83	0.435	
94-2074	0	0	0	0	41.8	0.071	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	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	3120	0.256	0	0	637.13	0.697	

TOTAL CUBIC METERS 18.04185

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

OF LINERS SHIPPED TO CNSI: 2

ISOTOPE:			% ABUNDANCE/LINER							# OF SHIPMENTS TO CNSI						2								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	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	11.6	4.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16.3	8.15
CO-60	13.4	7.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20.7	10.35
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	2.3	12.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14.5	7.25
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	7.4	9.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	8.5
SB-125	3.2	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.6	2.3
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	5.1	29.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34.4	17.2
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	42.4	18.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61.3	30.65
FE-55	11.8	14.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25.9	12.95
SR-90	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.1
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	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.25
PU-241	1.5	0.6	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	0	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2	0.6
CE-144	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	99.9	99.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	196.6	98.3
CLASS C	1	1	0	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	
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	12	34.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46.1	
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	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	0	6.8132	
RSR#	96-2004	96-2031	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

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

OF LINERS SHIPPED TO CNSI 0

ISOTOPE:			% ABUNDANCE/LINER							# OF SHIPMENTS TO CNSI						0								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	#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	#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	#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	#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	#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	#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	#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	#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	#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	#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	#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	#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	#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	#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	#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	#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	#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	#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	#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	#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	#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	#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	#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	#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	#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	#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	#DIV/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	#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	#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	#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	
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	
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	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	
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	
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	

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

OF DRUMS/LINERS TO CNSI 19

OF SHIPMENTS TO CNSI 3

ISOTOPE:																						TOTAL	AVE.
CR-51	13.8	10.8	81.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105.8	5.57
MN-54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
CO-57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
CO-58	64	43.9	310.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	418.7	22.04
CO-60	22.5	14.2	96.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133.3	7.02
NB-95	14.4	10.8	78.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103.7	5.46
ZR-95	10.2	7.2	50.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67.8	3.57
CS-134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
RU-103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
AG-110m	42.5	27.6	190.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	260.4	13.71
SB-125	4.5	2.8	19.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26.9	1.42
I-131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
CS-137	0.3	0.2	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.9	0.10
H-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
NI-63	33.9	21.6	147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	202.5	10.66
FE-55	67.5	43.2	294.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	404.8	21.31
SR-90	0.6	0.2	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.2	0.12
TE-125m	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
CS-136	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
XE-133	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
C-14	3.6	2.2	15.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21.2	1.12
PU-241	2.4	1.6	11.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
TRU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
FE-59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SB-124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
RU-106	6	3.8	26.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36.4	1.92
CE-144	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
NI-59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
CE-141	7.5	5.6	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55.1	2.90
SR-89	6	4.2	29.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39.6	2.08
CM-242	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.02
CM-243/4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
TOTAL	293.7	195.7	1395.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1841	98.98
CLASS C	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
CLASS B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CLASS A	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	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	
CURIES	11.4	9.36	3.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23.86	
CU. FT.	114.9	76.6	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	296.5	
CU. M	3.253667	2.169111	2.973325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.396	
RSR#	96-2012	96-2023	96-2027	0	0	0																	

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

OF CONTAINERS SHIPPED TO SEG 10 # OF CONTAINERS SHIPPED TO CNSI 3

OF SHIPMENTS TO SEG 3 # OF SHIPMENTS TO CNSI 3

ISOTOPE:																			TOTAL	AVE.
CR-51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
MN-54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
CO-57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
CO-58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
CO-60	36.09	11.25	0	5.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52.54	5.25
NB-95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
ZR-95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
CS-134	103.27	31.08	0	10.41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144.76	14.48
RU-103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
AG-110m	11.16	2.44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.6	1.36
SB-125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
I-131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
CS-137	287.76	91.43	0	54.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	433.61	43.36
H-3	61.72	263.8	0	29.98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	355.5	35.55
NI-63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
FE-55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SR-90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
TE-125m	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
CS-136	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
XE-133	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
C-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
PU-241	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
TRU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
FE-59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
SB-124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
RU-106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
CE-144	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
CM-242	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
TOTAL	500	400	0	100.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1000.01	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 A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CLASS A	5	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	
CURIES	0	0.024	0.006	0.005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.035	
CU. FT.	0	77.1	6.5	19.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103.1	
CU. M	0	2.18327	0.184063	0.552189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.919522	
RSR#	96-2007	96-2026	95-2043	96-2038																

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

OF LINERS SHIPPED TO CNSI & SEG 6

OF SHIPMENTS TO CNSI & SEG 1

ISOTOPE:			% ABUNDANCE/LINER																						TOTA	AVE.
CR-51	2.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.8	0.47
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	0.00
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	0.00
CO-58	25.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25.8	4.30
CO-60	40.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40.5	6.75
NB-95	4.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.5	0.75
ZR-95	7.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.8	1.30
CS-134	103.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103.1	17.18
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	0.00
AG-110m	5.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.8	0.97
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	0.00
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	0.00
CS-137	195	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	195	32.50
H-3	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	3.83
NI-63	78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78	13.00
FE-55	112.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112.3	18.72
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	0.00
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	0.00
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	0.00
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	0.00
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	0.00
PU-241	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
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	0.00
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	0.00
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	0.00
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	0.00
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	0.00
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	0.00
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
TOTAL	599.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	598.6	99.77
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	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
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	0.003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.003	
CU. FT.	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	
CU. M	1.274282	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.274	
RSR#	96-2006	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

WIND SPEED_DIRECTION_STABILITY JOINT FREQUENCY DISTRIBUTION

PASQUILL STABILITY A

	WIND SPEED CLASS										
	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	TOTAL
SECTOR	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
-N-	3	9	.	1	1	.	1	.	.	.	15
-NNE-	4	5	2	3	.	.	.	1	.	.	15
-NE-	.	3	7	3	5	5	5	1	1	.	30
-ENE-	3	2	5	15	6	8	3	.	1	.	43
-E-	1	1	2	8	6	3	2	.	1	1	25
-ESE-	1	1	2	2	2	.	.	.	.	.	8
-SE-	.	4	5	6	1	.	.	.	.	.	16
-SSE-	2	1	1	2	1	.	1	1	.	.	9
-S-	2	3	4	6	5	2	.	.	.	.	22
-SSW-	2	13	41	45	15	2	1	.	.	.	119
-SW-	8	22	36	39	21	12	9	5	5	4	161
-WSW-	5	16	21	6	4	5	3	1	1	15	77
-W-	3	14	2	4	6	4	.	2	2	3	40
-WNW-	2	3	1	3	8	5	6	10	3	5	46
-NW-	5	4	2	3	6	4	6	2	1	1	34
-NNW-	3	4	2	.	1	.	.	.	.	.	10
TOTAL	44	105	133	146	88	50	37	23	15	29	670

WIND SPEED_DIRECTION_STABILITY JOINT FREQUENCY DISTRIBUTION

PASQUILL STABILITY B

	WIND SPEED CLASS										
	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	TOTAL
	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
SECTOR											
-N-	.	4	1	.	.	.	.	.	.	.	5
-NNE-	1	3	5	.	.	.	.	1	.	.	10
-NE-	.	3	2	.	.	.	.	.	.	.	5
-ENE-	.	.	1	7	6	1	3	.	.	1	19
-E-	.	1	9	7	1	1	.	.	.	.	19
-ESE-	.	3	5	2	.	1	.	.	.	.	11
-SE-	.	3	4	1	.	.	.	.	.	.	8
-SSE-	.	.	5	2	1	.	.	.	.	.	8
-S-	.	5	7	4	5	.	1	.	.	.	22
-SSW-	1	13	40	26	7	16	6	.	.	.	109
-SW-	4	30	20	10	1	4	2	3	2	2	78
-WSW-	.	15	5	2	3	3	3	2	3	2	38
-W-	2	8	.	2	1	2	2	3	2	2	24
-WNW-	2	3	1	3	.	3	4	1	2	2	21
-NW-	2	2	2	.	1	.	.	2	3	4	16
-NNW-	3	7	.	.	.	1	1	1	.	.	13
TOTAL	15	100	107	66	26	32	22	13	12	13	406

WIND SPEED_DIRECTION_STABILITY JOINT FREQUENCY DISTRIBUTION

PASQUILL STABILITY C

	WIND SPEED CLASS										
	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	TOTAL
	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
SECTOR											
-N-	2	7	1	.	.	.	.	.	.	.	10
-NNE-	1	8	2	1	2	.	.	.	.	.	14
-NE-	1	11	9	4	1	5	.	.	.	.	31
-ENE-	.	1	5	10	8	9	2	2	1	.	38
-E-	.	6	7	9	2	1	2	.	.	.	27
-ESE-	1	6	4	2	.	.	.	.	.	.	13
-SE-	.	4	5	1	.	.	.	.	.	.	10
-SSE-	.	3	3	1	2	.	.	.	.	.	9
-S-	1	6	11	9	1	3	1	.	.	.	32
-SSW-	5	19	21	20	14	18	7	3	.	.	107
-SW-	5	23	19	11	7	8	6	.	1	2	82
-WSW-	3	18	2	3	3	7	7	1	4	11	59
-W-	.	11	3	1	2	3	1	1	1	6	29
-WNW-	2	5	2	2	4	5	2	5	3	.	30
-NW-	1	2	2	.	.	5	2	2	2	3	19
-NNW-	4	6	1	.	1	.	1	.	.	1	14
TOTAL	26	136	97	74	47	64	31	14	12	23	524

WIND SPEED_DIRECTION_STABILITY JOINT FREQUENCY DISTRIBUTION

PASQUILL STABILITY D

	WIND SPEED CLASS										
	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	TOTAL
	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
SECTOR											
-N-	29	93	35	13	7	4	7	1	.	.	189
-NNE-	39	81	41	21	10	3	.	.	.	.	195
-NE-	19	77	79	72	64	35	9	.	.	.	355
-ENE-	20	49	101	123	85	25	20	4	.	.	427
-E-	14	38	60	62	28	13	5	7	2	.	229
-ESE-	12	27	35	12	1	.	.	.	.	.	87
-SE-	13	23	26	15	3	1	.	.	.	.	81
-SSE-	11	24	35	13	4	3	2	1	.	.	93
-S-	14	33	36	15	16	4	.	1	.	.	119
-SSW-	26	39	53	49	40	35	18	5	2	.	267
-SW-	32	65	43	69	45	37	39	30	22	29	411
-WSW-	27	55	52	29	33	33	31	20	13	38	331
-W-	41	47	32	15	20	19	16	5	7	11	213
-WNW-	45	30	21	14	26	26	26	18	11	7	224
-NW-	29	44	17	22	21	20	12	15	15	13	208
-NNW-	47	53	20	11	11	8	5	2	.	.	157
-CALM-	1	.	.	.	.	.	.	.	.	.	1
TOTAL	419	778	686	555	414	266	190	109	72	98	3587

WIND SPEED_DIRECTIØN_STABILITY JØINT FREQUENCY DISTRIBUTIØN

PASQUILL STABILITY E

	WIND SPEED CLASS										
	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	TØTAL
SECTØR	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.	NØ.
-N-	62	187	54	11	5	.	1	.	.	.	320
-NNE-	37	189	84	16	5	1	.	.	.	.	332
-NE-	22	62	43	16	4	5	.	.	.	.	152
-ENE-	13	49	34	25	10	3	.	.	.	.	134
-E-	14	26	25	19	6	3	.	.	.	.	93
-ESE-	8	29	26	11	2	.	.	.	.	.	76
-SE-	11	20	23	10	2	.	.	.	.	.	66
-SSE-	9	17	17	21	2	1	.	.	.	.	67
-S-	13	21	23	25	12	3	1	1	1	.	100
-SSW-	9	17	26	37	14	10	9	.	.	1	123
-SW-	12	32	48	34	37	34	22	14	14	12	259
-WSW-	23	59	25	8	23	14	9	7	2	.	170
-W-	31	35	12	17	7	14	3	1	2	.	122
-WNW-	40	42	15	9	9	7	6	2	1	.	131
-NW-	63	53	18	9	3	3	2	.	.	.	151
-NNW-	67	89	46	9	2	1	.	.	.	.	214
TØTAL	434	927	519	277	143	99	53	25	20	13	2510

WIND SPEED_DIRECTION_STABILITY JOINT FREQUENCY DISTRIBUTION

PASQUILL STABILITY F

	WIND SPEED CLASS									
	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	TOTAL
SECTOR	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
-N-	9	31	9	.	.	.	.	.	.	49
-NNE-	5	42	24	1	.	.	.	.	.	72
-NE-	8	13	9	.	.	.	.	.	.	30
-ENE-	2	9	1	1	.	.	.	.	.	13
-E-	3	5	.	2	.	.	.	.	.	10
-ESE-	1	4	6	1	.	.	.	.	.	12
-SE-	2	8	4	3	1	.	.	.	.	18
-SSE-	4	5	4	1	1	.	.	.	.	15
-S-	1	5	9	2	.	.	.	.	.	17
-SSW-	3	6	5	8	4	.	.	.	.	26
-SW-	2	8	15	11	10	2	.	1	.	49
-WSW-	5	14	9	10	1	1	1	.	1	42
-W-	5	8	8	2	1	1	.	.	.	25
-WNW-	5	8	4	2	2	.	1	.	.	22
-NW-	6	4	4	1	1	.	.	.	.	16
-NNW-	7	7	4	1	.	1	.	.	.	20
TOTAL	68	177	115	46	21	5	2	1	1	436

WIND SPEED_DIRECTION_STABILITY JOINT FREQUENCY DISTRIBUTION

PASQUILL STABILITY G

	WIND SPEED CLASS						
	0.45-1.49	1.50-2.49	2.50-3.49	3.50-4.49	4.50-5.49	5.50-6.49	TOTAL
SECTOR	NO.	NO.	NO.	NO.	NO.	NO.	NO.
-N-	3	7	4	.	.	.	14
-NNE-	1	5	3	.	.	.	9
-NE-	.	4	.	.	.	.	4
-ENE-	1	1	.	.	.	.	2
-SSE-	.	1	1	1	.	.	3
-S-	1	2	2	1	.	.	6
-SSW-	.	2	3	1	.	.	6
-SW-	1	2	3	2	3	1	12
-WSW-	5	4	5	2	.	.	16
-W-	1	3	2	.	.	.	6
-WNW-	.	5	3	.	.	.	8
-NW-	2	5	1	1	.	.	9
-NNW-	1	3	2	.	.	.	6
TOTAL	16	44	29	8	3	1	101

WIND SPEED_DIRECTION_STABILITY JOINT FREQUENCY DISTRIBUTION

ALL STABILITY CLASSES

	WIND SPEED CLASS										
	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	TOTAL
	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
SECTOR											
-N-	108	338	104	25	13	4	9	1	.	.	602
-NNE-	88	333	161	42	17	4	.	2	.	.	647
-NE-	50	173	149	95	74	50	14	1	1	.	607
-ENE-	39	111	147	181	115	46	28	6	2	1	676
-E-	32	77	103	107	43	21	9	7	3	1	403
-ESE-	23	70	78	30	5	1	.	.	.	.	207
-SE-	26	62	67	36	7	1	.	.	.	.	199
-SSE-	26	51	66	41	11	4	3	2	.	.	204
-S-	32	75	92	62	39	12	3	2	1	.	318
-SSW-	46	109	189	186	94	81	41	8	2	1	757
-SW-	64	182	184	176	124	98	78	53	44	49	1052
-WSW-	68	181	119	60	67	63	54	31	24	66	733
-W-	83	126	59	41	37	43	22	12	14	22	459
-WNW-	96	96	47	33	49	46	45	36	20	14	482
-NW-	108	114	46	36	32	32	22	21	21	21	453
-NNW-	132	169	75	21	15	11	7	3	.	1	434
-CALM-	1	.	.	.	.	.	.	.	.	.	1
TOTAL	1022	2267	1686	1172	742	517	335	185	132	176	8234

Duke Power Company

Oconee Nuclear Site

Attachment IV

Unplanned Offsite Releases

OCONEE NUCLEAR SITE

There were no unplanned offsite releases in 1996.

Duke Power Company

Oconee Nuclear Site

Attachment V

Inoperable Monitoring Equipment

OCONEE NUCLEAR SITE

RADIOACTIVE GAS/LIQUID MONITOR 4RIA-46 was inoperable for greater than 30 days. This was due to the unavailability of replacement parts. 4RIA-46 was repaired and returned to service on 9/17/96.