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 AUTH. NAME AUTHOR AFFILIATION
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 RECIP. NAME RECIPIENT AFFILIATION

O'REILLY, J.P. Region 2, Office of Director

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	NRR/DSI/RAB 10	1	1	RGN2/DRSS/EPRPB		1	1
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NOTES:		1	1				

DUKE POWER COMPANY
OCONEE NUCLEAR STATION
ENVIRONMENTAL MONITORING REPORT
January 1, 1982 - December 31, 1982

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OCONEE NUCLEAR STATION
ANNUAL ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM
OPERATING REPORT

Table 1 summarizes the results of the Environmental Radiological Program for 1982. Table 2 provides the locations of milch animals within a 5 mile radius of the station as determined by the semi-annual census of milch animals.

Some unavoidable deviations from the routine sampling schedule occurred during the year. These deviations are tabulated below:

<u>Unavailable Analysis</u>	<u>Reason</u>
1) Air Filter/Cartridge	
a) (000), 7/27 - 8/3/82	Mechanical problem with sampler.
2) Milk	
a) (002.1), 1/12/82	Sample collected; however, low level I-131 could not be performed because proportional counter was out of order.
3) Rain and Settled Dust	
a) (006), 1/5 - 2/2/82	Bucket split during transport.
b) (002), 7/6 - 8/3/82	Collected volume of sample could not be determined because portion of sample spilled prior to transport.
4) TLD	
a) (001), 12/30 - 3/23/82	Missing
b) (000.2), 3/23 - 6/23/82	Missing
c) (001), 3/23 - 6/23/82	Missing
d) (001), 6/23 - 9/22/82	Missing
e) (004), 6/23 - 9/22/82	Missing
f) (004), 9/22 - 12/28/82	Missing

The location 001 TLD was moved to a less conspicuous place following the third quarter to prevent its continued loss.

During 1982, eight Anomalous Reports were submitted to the NRC as required by Oconee Nuclear Station Technical Specifications. Reports were submitted when samples collected at locations 000.4 and 000.7 (at or near the liquid radioactive waste discharge point) contained radionuclide activities in excess of 50 times the associated activities of their control locations and when samples collected at any other locations contained radionuclide activities in excess of 10 times the associated activities of their control locations. Column 7 of

Table 1 indicates the number of anomalous activities measured in Environmental Radiological Monitoring Program Samples by sample type and radionuclide. The number of anomalous activities reported in 1982 (including State split samples) represents a decrease of 55% from the number reported in 1981.

Bottom Sediment samples collected on February 22, 1982 at locations 000.4 (liquid radwaste discharge point) and 005.2 and on August 10, 1982 at location 000.4 showed CS-137 concentrations that exceeded the control limits. The measured concentrations of CS-137 in these samples were lower than the expected concentrations calculated from models as per Regulatory Guide 1.109.

Fish samples (omnivorous species - carp) collected on March 2, 1982 at location 013 showed CS-137 in excess of the control limit. Assuming maximum consumption of 21 kg per year, an additional whole body dose of 0.58 mrem/year would be received; however, this additional dose is a liberal estimate as carp are considered to be a negligible source of food fish in this area.

Surface water grab samples collected at location 000.7 by the South Carolina Department of Health and Environmental Control on January 19, 1982, February 23, 1982, and November 9, 1982 for split analyses showed tritium levels that exceeded their control limits. First quarter surface water composites showed tritium levels that exceeded control limits at location 000.7 and farther downstream at location 005.2. Evaluation of tritium concentrations for raw water and drinking water collected from the Clemson Water Treatment Plant (the closest source of drinking water downstream of Locations 000.7 and 005.2) during the first and third quarters of 1982 were in compliance with the limits established by Technical Specification 6.6.2.2.

The January 5, 1982 surface water sample at location 005.2 showed alpha dissolved and alpha and beta suspended activities that exceeded control limits. Heavy rains during the collection period increased the amount of dissolved and suspended matter in the sample which increased the natural radioactivity content of the sample.

Analyses results of Rain and Settled Dust samples collected during February showed Mn-54, Co-58, and Co-60 activities at location 000.1 to be above background. Co-57 and Ru-103 were also identified as being present. None of the anomalous activities were measured in any of the rain and settled dust samples at other locations and Co-57 and Ru-103 did not appear in any other samples. The rain bucket from the 000.1 location was analyzed as well as additional samples (vegetation and surface smears) and no anomalous activities were identified. No logical explanation for the measured activities has been determined.

Trend analyses for 1982 indicate no significant long-term positive trends in environmental media and none of the observed activities resulted in a significant environmental dose potential or represent a hazard to the health and safety of the public.

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

PAGE 1 OF 17

OCONEE NUCLEAR STATION
PICKENS COUNTY, SOUTH CAROLINA

TABLE 1

DOCKET NUMBER 50-269,-270,-287
JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	TYPE & TOTAL NO. OF ANALYSES PERFORMED	(LLD)	ALL INDICATOR LOCATIONS MEANS (F) RANGE	LOCATION W/ HIGHEST ANN. MEAN NAME DIST/ DIRECTION	CONTROL LOCATIONS MEAN (F) RANGE 006 9.5 mi/SSE	NO. OF NON- ROUTINE REPORT MEAS.
AIR FILTER PCI/CUBIC MET. 4 LOCATIONS						
ALPHA-T	211	0.00	1.38E-03(153/ 158)	000	1.44E-03(52/ 52)	1.46E-03(53/ 53)
BETA-T	211	0.01	2.78E-04-- 5.52E-03	0.3 mi/N	2.78E-04-- 5.52E-03	3.70E-04-- 4.74E-03
MN-54	211	0.00	2.56E-02(158/ 158)	000	2.67E-02(52/ 52)	2.41E-02(53/ 53)
FE-59	211	0.00	3.38E-03-- 6.09E-02	009	3.38E-03-- 6.09E-02	6.50E-03-- 5.06E-02
CO-58	211	0.00	5.74E-04(7/ 158)	009	9.06E-04(2/ 53)	5.21E-05(2/ 53)
CO-60	211	0.00	4.30E-03-- 7.78E-03	14.5 mi/E	4.32E-03-- 7.78E-03	3.98E-03-- 5.95E-03
ZN-65	211	0.00	5.50E-04(2/ 158)	000	1.70E-03(2/ 52)	1.08E-03(0/ 53)
ZR-95	211	0.00	1.31E-02-- 1.35E-02	014	1.31E-02-- 1.35E-02	0.00E-01-- 0.00E-01
NB-95	211	0.00	5.32E-04(9/ 158)	014	9.91E-04(6/ 53)	2.97E-04(1/ 53)
I-131	211	0.00	4.31E-03-- 8.82E-03	12.0 mi/SW	4.31E-03-- 8.82E-03	6.88E-03-- 6.88E-03
CS-134	211	0.00	1.09E-03(12/ 158)	009	1.60E-03(2/ 53)	1.09E-03(3/ 53)
CS-137	211	0.00	5.51E-03-- 1.11E-02	009	6.53E-03-- 9.95E-03	4.52E-03-- 1.17E-02
BALA-140	211	0.00	6.24E-04(1/ 158)	009	1.30E-03(0/ 53)	2.36E-04(0/ 53)
			1.42E-02-- 1.42E-02		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
			5.29E-04(5/ 158)	014	9.31E-04(1/ 53)	5.38E-04(2/ 53)
			5.30E-03-- 9.67E-03		9.67E-03-- 9.67E-03	6.55E-03-- 8.11E-03
			9.44E-04(6/ 158)	009	2.31E-03(3/ 53)	1.44E-03(5/ 53)
			3.80E-03-- 1.33E-02		3.80E-03-- 1.33E-02	4.61E-03-- 7.81E-03
			1.82E-03(15/ 158)	000	2.87E-03(10/ 52)	8.10E-04(1/ 53)
			5.03E-03-- 1.35E-02		7.45E-03-- 1.33E-02	7.11E-03-- 7.11E-03
			-8.60E-05(5/ 158)	014	1.66E-04(3/ 53)	-3.49E-04(3/ 53)
			4.57E-03-- 5.66E-02		4.57E-03-- 5.27E-03	6.52E-03-- 1.09E-02
			3.59E-03(49/ 158)	009	4.24E-03(17/ 53)	3.23E-03(20/ 53)
			3.93E-03-- 5.84E-02		4.80E-03-- 5.84E-02	4.11E-03-- 1.21E-02
			-4.39E-05(1/ 158)	000	6.07E-04(0/ 52)	3.14E-06(3/ 53)
			1.27E-02-- 1.27E-02		0.00E-01-- 0.00E-01	2.51E-03-- 7.65E-03

MEAN BASED UPON ALL NET ACTIVITY MEASUREMENTS

RANGE BASED UPON DETECTABLE ACTIVITY MEASUREMENTS ONLY

ZERO RANGE INDICATES NO DETECTABLE ACTIVITY MEASUREMENTS

FRACTION OF DETECTABLE ACTIVITY MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES. (F)

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

PAGE 2 OF 17

OCONEE NUCLEAR STATION
PICKENS COUNTY, SOUTH CAROLINA

DOCKET NUMBER 50-269,-270,-287
JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	I I I I	TYPE & TOTAL NO. OF ANALYSES PERFORMED	I I I I	(LLD)	I I I I	ALL INDICATOR LOCATIONS MEANS (F) RANGE	I I I I	LOCATION W/ HIGHEST ANN. MEAN NAME DIST/ DIRECTION	I I I I	CONTROL LOCATIONS MEAN (F) RANGE 006 9.5 mi/SSE	I I I I	NO. OF NON- ROUTINE REPORT MEAS.
AIR FILTER	I		I		I		I		I		I	
COMPOSITE	I		I		I		I		I		I	
PCI/CUBIC MET.	I		I		I		I		I		I	
4 LOCATIONS	I		I		I		I		I		I	
	I	SR-89	48	I	0.00	I	< LLD (0/ 36)	I	< LLD	I	< LLD (0/ 12)	I
	I			I		I		I		I		I
	I	SR-90	48	I	0.00	I	2.49E-04(11/ 36)	I	014 2.90E-04(4/ 12)	I	2.00E-04(3/ 12)	I
	I			I		I	1.60E-04-- 3.60E-04	I	2.0 mi/SW 2.10E-04-- 3.60E-04	I	1.50E-04-- 2.80E-04	I

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RANGE BASED UPON DETECTABLE ACTIVITY MEASUREMENTS ONLY

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ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

PAGE 3 OF 17

OCONEE NUCLEAR STATION
PICKENS COUNTY, SOUTH CAROLINA

DOCKET NUMBER 50-269,-270,-287
JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	TYPE & TOTAL NO. OF ANALYSES PERFORMED	(LLD)	ALL INDICATOR LOCATIONS MEANS (F) RANGE	LOCATION W/ HIGHEST ANN. MEAN NAME DIST/ DIRECTION	CONTROL LOCATIONS MEAN (F) RANGE 014 2.0 mi/SW	NO. OF NON- ROUTINE REPORT MEAS.
GROUND WATER PC1/L 2 LOCATIONS						
ALPHA-T	8	0.50	1.45E-01(2/ 4)	015 1.45E-01(2/ 4)	1.45E 01(4/ 4)	
BETA-T	8	1.00	2.87E-01-- 3.46E-01 1.52E 00(4/ 4)	2.0 mi/SSE 2.87E-01-- 3.46E-01 015 1.52E 00(4/ 4)	5.87E 00-- 2.29E 01 1.16E 01(4/ 4)	
SR-89	8	10.00	1.15E 00-- 2.07E 00 < LLD (0/ 4)	1.15E 00-- 2.07E 00 < LLD	5.90E 00-- 2.15E 01 < LLD (0/ 4)	
SR-90	8	2.00	< LLD (0/ 4)	< LLD	< LLD (0/ 4)	
H-3	8	330.00	2.35E 02(4/ 4) 1.80E 02-- 3.60E 02	015 2.35E 02(4/ 4) 1.80E 02-- 3.60E 02	1.25E 02(2/ 4) 1.00E 02-- 1.50E 02	
MN-54	8	15.00	-1.58E 00(0/ 4) 0.00E-01-- 0.00E-01	015 -1.58E 00(0/ 4) 0.00E-01-- 0.00E-01	-6.80E-01(0/ 4) 0.00E-01-- 0.00E-01	
FE-59	8	30.00	-1.02E 00(0/ 4) 0.00E-01-- 0.00E-01	015 -1.02E 00(0/ 4) 0.00E-01-- 0.00E-01	-3.92E-01(0/ 4) 0.00E-01-- 0.00E-01	
CO-58	8	15.00	-1.11E 00(0/ 4) 0.00E-01-- 0.00E-01	015 -1.11E 00(0/ 4) 0.00E-01-- 0.00E-01	-1.01E 00(0/ 4) 0.00E-01-- 0.00E-01	
CO-60	8	15.00	2.11E-02(0/ 4) 0.00E-01-- 0.00E-01	015 2.11E-02(0/ 4) 0.00E-01-- 0.00E-01	1.98E 00(0/ 4) 0.00E-01-- 0.00E-01	
ZN-65	8	30.00	2.55E 00(0/ 4) 0.00E-01-- 0.00E-01	015 2.55E 00(0/ 4) 0.00E-01-- 0.00E-01	-3.21E-01(0/ 4) 0.00E-01-- 0.00E-01	
ZR-95	8	20.00	-7.43E-01(0/ 4) 0.00E-01-- 0.00E-01	015 -7.43E-01(0/ 4) 0.00E-01-- 0.00E-01	5.71E 00(1/ 4) 7.76E 00-- 7.76E 00	
NB-95	8	10.00	2.17E 00(0/ 4) 0.00E-01-- 0.00E-01	015 2.17E 00(0/ 4) 0.00E-01-- 0.00E-01	-8.02E-01(0/ 4) 0.00E-01-- 0.00E-01	
I-131	8	15.00	-6.15E-01(0/ 4) 0.00E-01-- 0.00E-01	015 -6.15E-01(0/ 4) 0.00E-01-- 0.00E-01	-5.16E-01(0/ 4) 0.00E-01-- 0.00E-01	
CS-134	8	15.00	2.05E 00(1/ 4) 5.60E 00-- 5.60E 00	015 2.05E 00(1/ 4) 5.60E 00-- 5.60E 00	-6.28E-01(0/ 4) 0.00E-01-- 0.00E-01	
CS-137	8	15.00	1.45E-01(0/ 4) 0.00E-01-- 0.00E-01	015 1.45E-01(0/ 4) 0.00E-01-- 0.00E-01	4.57E-01(0/ 4) 0.00E-01-- 0.00E-01	
BALA-140	8	15.00	-9.36E-01(0/ 4) 0.00E-01-- 0.00E-01	015 -9.36E-01(0/ 4) 0.00E-01-- 0.00E-01	3.43E-01(0/ 4) 0.00E-01-- 0.00E-01	

MEAN BASED UPON ALL NET ACTIVITY MEASUREMENTS
RANGE BASED UPON DETECTABLE ACTIVITY MEASUREMENTS ONLY
ZERO POWER INDICATES NO DETECTABLE ACTIVITY MEASUREMENTS

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

PAGE 4 OF 17

OCONEE NUCLEAR STATION
PICKENS COUNTY, SOUTH CAROLINA

DOCKET NUMBER 50-269,-270,-287
JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	TYPE & TOTAL NO. OF ANALYSES PERFORMED	(LLD)	ALL INDICATOR LOCATIONS MEANS (F) RANGE	LOCATION W/ HIGHEST ANN. MEAN NAME DIST/ DIRECTION	CONTROL LOCATIONS MEAN (F) RANGE 000.3 0.6 mi/NNW	NO. OF NON- ROUTINE REPORT MEAS.		
SURFACE WATER PCI/L 6 LOCATIONS								
	ALPHA-D	72	0.50	2.04E-01(20/ 60)	005.2	3.80E-01(4/ 12)	6.71E-02(3/ 12)	1
				1.50E-01-- 3.33E 00	14.5 mi/SSE	2.28E-01-- 3.33E 00	1.12E-01-- 2.79E-01	
	ALPHA-S	72	0.50	6.24E-01(14/ 60)	005.2	2.43E 00(3/ 12)	1.72E-01(5/ 12)	1
				2.44E-01-- 2.72E 01		4.79E-01-- 2.72E 01	2.80E-01-- 9.08E-01	
	BETA-D	72	1.00	3.13E 00(60/ 60)	000.7	7.97E 00(12/ 12)	1.57E 00(12/ 12)	
				6.62E-01-- 1.71E 01	10.9 mi/ESE	3.21E 00-- 1.71E 01	5.98E-01-- 2.62E 00	
	BETA-S	72	1.00	8.72E-01(24/ 60)	005.2	2.64E 00(8/ 12)	2.73E-01(2/ 12)	1
				4.63E-01-- 2.61E 01		5.49E-01-- 2.61E 01	4.79E-01-- 1.14E 00	
	MN-54	72	15.00	1.23E-01(1/ 60)	000.6	5.63E-01(0/ 12)	5.25E-01(0/ 12)	
				3.49E 00-- 3.49E 00	10.2 mi/NNE	0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	
	FE-59	72	30.00	9.67E-01(2/ 60)	005.2	2.29E 00(1/ 12)	1.35E 00(0/ 12)	
				7.72E 00-- 1.91E 01		7.72E 00-- 7.72E 00	0.00E-01-- 0.00E-01	
	CO-58	72	15.00	1.67E-01(2/ 60)	000.7	6.14E-01(0/ 12)	7.67E-01(1/ 12)	
				2.60E 00-- 5.72E 00		0.00E-01-- 0.00E-01	5.91E 00-- 5.91E 00	
	CO-60	72	15.00	1.27E 00(9/ 60)	000.7	1.99E 00(4/ 12)	-6.41E-01(0/ 12)	
				3.51E 00-- 7.85E 00		4.80E 00-- 6.84E 00	0.00E-01-- 0.00E-01	
	ZN-65	72	30.00	3.46E-01(1/ 60)	000.7	1.17E 00(1/ 12)	7.63E-01(0/ 12)	
				1.42E 01-- 1.42E 01		1.42E 01-- 1.42E 01	0.00E-01-- 0.00E-01	
	ZR-95	72	20.00	9.17E-01(2/ 60)	000.5	2.27E 00(0/ 12)	1.29E 00(2/ 12)	
				7.96E 00-- 1.26E 01	1.1 mi/SW	0.00E-01-- 0.00E-01	9.39E 00-- 1.23E 01	
	NB-95	72	10.00	1.34E 00(6/ 60)	000.7	2.29E 00(4/ 12)	-4.28E-02(0/ 12)	
				4.18E 00-- 9.55E 00		4.18E 00-- 7.87E 00	0.00E-01-- 0.00E-01	
	I-131	72	15.00	2.00E 00(8/ 60)	000.7	3.80E 00(2/ 12)	5.57E-02(0/ 12)	
				6.94E 00-- 1.40E 01		9.36E 00-- 1.40E 01	0.00E-01-- 0.00E-01	
	CS-134	72	15.00	6.53E-01(5/ 60)	000.7	1.93E 00(1/ 12)	1.96E-01(1/ 12)	
				5.62E 00-- 1.13E 01		1.13E 01-- 1.13E 01	8.06E 00-- 8.06E 00	
	CS-137	72	15.00	1.06E 00(7/ 60)	000.7	4.85E 00(4/ 12)	8.40E-01(1/ 12)	
				5.18E 00-- 1.14E 01		6.92E 00-- 1.14E 01	4.36E 00-- 4.36E 00	
	BALA-140	72	15.00	-8.91E-02(2/ 60)	000.5	1.25E 00(1/ 12)	-4.17E-01(0/ 12)	
				4.70E 00-- 5.62E 00		5.62E 00-- 5.62E 00	0.00E-01-- 0.00E-01	

MEAN BASED UPON ALL NET ACTIVITY MEASUREMENTS

RANGE BASED UPON DETECTABLE ACTIVITY MEASUREMENTS ONLY

ZERO RANGE INDICATES NO DETECTABLE ACTIVITY MEASUREMENTS

FRACTION OF DETECTABLE ACTIVITY MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES, (F)

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

OCONEE NUCLEAR STATION
PICKENS COUNTY, SOUTH CAROLINA

DOCKET NUMBER 50-269,-270,-287
JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	I	TYPE & TOTAL NO. OF ANALYSES PERFORMED	I	(LLD)	I	ALL INDICATOR LOCATIONS MEANS (F) RANGE	I	LOCATION W/ HIGHEST ANN. MEAN ----- NAME DIST/ DIRECTION	I	CONTROL LOCATIONS MEAN (F) RANGE 000.3 0.6 mi/MNW	I	NO. OF NON- ROUTINE REPORT MEAS.	
SURFACE WATER COMPOSITE PCI/L 6 LOCATIONS	I		I		I		I		I		I		
	I		I		I		I		I		I		
	I		I		I		I		I		I		
	I		I		I		I		I		I		
	I	SR-89	24	I	10.00	I	< LLD (0/ 20)	I	< LLD	I	< LLD (0/ 4)	I	
	I			I		I		I		I		I	
	I	SR-90	24	I	2.00	I	< LLD (0/ 20)	I	< LLD	I	< LLD (0/ 4)	I	
	I			I		I		I		I		I	
	I	H-3	24	I	330.00	I	1.57E 03(20/ 20)	I	000.7 6.13E 03(4/ 4)	I	1.55E 02(4/ 4)	I	2
	I			I		I	1.00E 02-- 1.29E 04	I	0.9 mi/ESE 1.91E 03-- 1.29E 04	I	1.00E 02-- 2.30E 02	I	

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ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

OCONEE NUCLEAR STATION
PICKENS COUNTY, SOUTH CAROLINA

DOCKET NUMBER 50-269,-270,-287
JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	I I I I I	TYPE & TOTAL NO. OF ANALYSES PERFORMED	I I I I I	(LLD)	I I I I I	ALL INDICATOR LOCATIONS MEANS (F) RANGE	I I I I I	LOCATION W/ HIGHEST ANN. MEAN NAME DIST/ DIRECTION	I I I I I	CONTROL LOCATIONS MEAN (F) RANGE 004.1 6.0 mi/SSW	I I I I I	NO. OF NON- ROUTINE REPORT MEAS.
DRINKING WATER PCI/L 3 LOCATIONS	I I I I		I I I I		I I I I		I I I I		I I I I		I I I I	
	I	ALPHA-T 36	I	0.50	I	4.57E-02(5/ 24)	I	012	I	6.86E-02(3/ 12)	I	2.93E-02(1/ 12)
	I		I		I	1.52E-01-- 4.29E-01	I	19.0 mi/SSE	I	1.52E-01-- 4.29E-01	I	3.74E-01-- 3.74E-01
	I	BETA-T 36	I	1.00	I	1.86E 00(24/ 24)	I	012	I	2.04E 00(12/ 12)	I	1.45E 00(12/ 12)
	I		I		I	1.04E 00-- 2.76E 00	I		I	1.41E 00-- 2.76E 00	I	7.94E-01-- 2.10E 00
	I	MIN-54 36	I	15.00	I	1.27E-01(0/ 24)	I	006.1	I	1.29E-01(0/ 12)	I	-7.63E-01(0/ 12)
	I		I		I	0.00E-01-- 0.00E-01	I	8.5 mi/SSE	I	0.00E-01-- 0.00E-01	I	0.00E-01-- 0.00E-01
	I	FE-59 36	I	30.00	I	-1.13E 00(0/ 24)	I	006.1	I	-0.36E-01(0/ 12)	I	1.10E-02(0/ 12)
	I		I		I	0.00E-01-- 0.00E-01	I		I	0.00E-01-- 0.00E-01	I	0.00E-01-- 0.00E-01
	I	CO-58 36	I	15.00	I	1.46E-02(0/ 24)	I	012	I	7.28E-01(0/ 12)	I	1.06E 00(0/ 12)
	I		I		I	0.00E-01-- 0.00E-01	I		I	0.00E-01-- 0.00E-01	I	0.00E-01-- 0.00E-01
	I	CO-60 36	I	15.00	I	1.23E 00(2/ 24)	I	012	I	2.25E 00(1/ 12)	I	2.49E-01(1/ 12)
	I		I		I	4.45E 00-- 6.80E 00	I		I	6.80E 00-- 6.80E 00	I	4.18E 00-- 4.18E 00
	I	ZN-65 36	I	30.00	I	3.59E-02(0/ 24)	I	012	I	1.12E-01(0/ 12)	I	7.68E-01(0/ 12)
	I		I		I	0.00E-01-- 0.00E-01	I		I	0.00E-01-- 0.00E-01	I	0.00E-01-- 0.00E-01
	I	ZR-95 36	I	20.00	I	1.69E 00(1/ 24)	I	006.1	I	1.79E 00(1/ 12)	I	3.52E-01(0/ 12)
	I		I		I	9.59E 00-- 9.59E 00	I		I	9.59E 00-- 9.59E 00	I	0.00E-01-- 0.00E-01
	I	NB-95 36	I	10.00	I	5.05E-01(1/ 24)	I	006.1	I	1.21E 00(1/ 12)	I	6.03E-01(0/ 12)
	I		I		I	6.44E 00-- 6.44E 00	I		I	6.44E 00-- 6.44E 00	I	0.00E-01-- 0.00E-01
	I	I-131 36	I	15.00	I	4.03E-01(0/ 24)	I	012	I	9.71E-01(0/ 12)	I	1.03E 00(1/ 12)
	I		I		I	0.00E-01-- 0.00E-01	I		I	0.00E-01-- 0.00E-01	I	5.97E 00-- 5.97E 00
	I	CS-134 36	I	15.00	I	9.48E-01(1/ 24)	I	012	I	1.92E 00(0/ 12)	I	-6.99E-01(0/ 12)
	I		I		I	9.24E 00-- 9.24E 00	I		I	0.00E-01-- 0.00E-01	I	0.00E-01-- 0.00E-01
	I	CS-137 36	I	15.00	I	2.35E-01(0/ 24)	I	012	I	4.61E-01(0/ 12)	I	6.93E-01(0/ 12)
	I		I		I	0.00E-01-- 0.00E-01	I		I	0.00E-01-- 0.00E-01	I	0.00E-01-- 0.00E-01
	I	BALA-140 36	I	15.00	I	-5.45E-01(1/ 24)	I	006.1	I	3.20E-01(1/ 12)	I	1.89E-01(1/ 12)
	I		I		I	3.93E 00-- 3.93E 00	I		I	3.93E 00-- 3.93E 00	I	4.01E 00-- 4.01E 00

MEAN BASED UPON ALL NET ACTIVITY MEASUREMENTS

RANGE BASED UPON DETECTABLE ACTIVITY MEASUREMENTS ONLY

ZERO RANGE INDICATES NO DETECTABLE ACTIVITY MEASUREMENTS

FRACTION OF DETECTABLE ACTIVITY MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES. (F)

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

PAGE 7 OF 17

OCONEE NUCLEAR STATION
PICKENS COUNTY, SOUTH CAROLINA

DOCKET NUMBER 50-269,-270,-287
JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	I I I I	TYPE & TOTAL NO. OF ANALYSES PERFORMED	I I I I	(LLD)	I I I I	ALL INDICATOR LOCATIONS MEANS (F) RANGE	I I I I	LOCATION W/ HIGHEST ANN. MEAN NAME DIST/ DIRECTION	I I I I	CONTROL LOCATIONS MEAN (F) RANGE 004.1 6.0 mi/SSW	I I I I	NO. OF NON- ROUTINE REPORT MEAS.
DRINKING WATER	I		I		I		I		I		I	
COMPOSITE	I		I		I		I		I		I	
PCI/L	I		I		I		I		I		I	
3 LOCATIONS	I		I		I		I		I		I	
	I	SR-89	12	I	10.00	I	< LLD (0/ 8)	I	< LLD	I	< LLD (0/ 4)	I
	I			I		I		I		I		I
	I	SR-90	12	I	2.00	I	< LLD (0/ 8)	I	< LLD	I	< LLD (0/ 4)	I
	I			I		I		I		I		I
	I	H-3	12	I	330.00	I	4.90E 02(8/ 8)	I	006.1 6.43E 02(4/ 4)	I	1.53E 02(4/ 4)	I
	I			I		I	2.70E 02-- 9.30E 02	I	8.5 mi/SSE 5.20E 02-- 9.30E 02	I	1.20E 02-- 1.80E 02	I

MEAN BASED UPON ALL NET ACTIVITY MEASUREMENTS

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ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

PAGE 8 OF 17

OCONEE NUCLEAR STATION
PICKENS COUNTY, SOUTH CAROLINA

DOCKET NUMBER 50-269,-270,-287
JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	TYPE & TOTAL NO. OF ANALYSES PERFORMED	(LLD)	ALL INDICATOR LOCATIONS MEANS (F) RANGE	LOCATION W/ HIGHEST ANN. MEAN NAME DIST/ DIRECTION	CONTROL LOCATIONS MEAN (F) RANGE 004.1 6.0 mi/SSW	NO. OF NON- ROUTINE REPORT MEAS.
RAW WATER PCI/L 3 LOCATIONS						
ALPHA-D	36	0.50	6.90E-02(3/ 24)	006.1	8.82E-02(2/ 12)	1.28E-03(1/ 12)
ALPHA-S	36	0.50	2.89E-01-- 3.72E-01 9.21E-02(5/ 24)	8.5 mi/SSE 012	2.89E-01-- 3.72E-01 1.16E-01(4/ 12)	5.05E-01-- 5.05E-01 1.48E-01(3/ 12)
BETA-D	36	1.00	3.08E-01-- 9.39E-01 2.40E 00(24/ 24)	19.0 mi/SSE 006.1	3.08E-01-- 5.59E-01 2.74E 00(12/ 12)	4.16E-01-- 6.98E-01 1.96E 00(12/ 12)
BETA-S	36	1.00	1.14E 00-- 6.59E 00 2.43E-01(6/ 24)	006.1	1.14E 00-- 6.59E 00 3.56E-01(4/ 12)	1.15E 00-- 6.09E 00 4.97E-01(3/ 12)
I-131/LL	36	1.50	4.89E-01-- 1.26E 00 -1.10E-01(1/ 24)	012	4.89E-01-- 1.26E 00 -7.86E-02(0/ 12)	5.06E-01-- 3.73E 00 -5.27E-02(0/ 12)
MN-54	36	15.00	3.56E-01-- 3.56E-01 4.82E-01(2/ 24)	012	0.00E-01-- 0.00E-01 8.09E-01(1/ 12)	0.00E-01-- 0.00E-01 -3.49E-02(0/ 12)
FE-59	36	30.00	6.18E 00-- 8.28E 00 1.34E 00(2/ 24)	012	8.28E 00-- 8.28E 00 1.81E 00(1/ 12)	0.00E-01-- 0.00E-01 8.90E-01(0/ 12)
CO-58	36	15.00	1.02E 01-- 1.66E 01 5.13E-01(0/ 24)	006.1	1.66E 01-- 1.66E 01 1.05E 00(0/ 12)	0.00E-01-- 0.00E-01 4.84E-01(1/ 12)
CO-60	36	15.00	0.00E-01-- 0.00E-01 6.10E-01(0/ 24)	006.1	0.00E-01-- 0.00E-01 7.23E-01(0/ 12)	4.18E 00-- 4.18E 00 1.58E 00(3/ 12)
ZN-65	36	30.00	0.00E-01-- 0.00E-01 -7.68E-01(0/ 24)	012	0.00E-01-- 0.00E-01 -4.83E-02(0/ 12)	4.18E 00-- 5.38E 00 -3.06E-01(0/ 12)
ZR-95	36	20.00	0.00E-01-- 0.00E-01 1.74E 00(1/ 24)	012	0.00E-01-- 0.00E-01 1.92E 00(1/ 12)	0.00E-01-- 0.00E-01 9.49E-01(0/ 12)
NB-95	36	10.00	1.61E 01-- 1.61E 01 8.45E-02(1/ 24)	006.1	1.61E 01-- 1.61E 01 5.46E-01(1/ 12)	0.00E-01-- 0.00E-01 -4.44E-01(1/ 12)
I-131	36	15.00	4.90E 00-- 4.90E 00 9.78E-01(3/ 24)	006.1	4.90E 00-- 4.90E 00 1.37E 00(3/ 12)	4.41E 00-- 4.41E 00 1.43E 00(0/ 12)
CS-134	36	15.00	6.51E 00-- 7.69E 00 1.33E 00(4/ 24)	006.1	6.51E 00-- 7.69E 00 1.91E 00(3/ 12)	0.00E-01-- 0.00E-01 5.46E-01(0/ 12)
CS-137	36	15.00	5.13E 00-- 9.89E 00 3.07E-01(0/ 24)	006.1	7.80E 00-- 9.89E 00 9.81E-01(0/ 12)	0.00E-01-- 0.00E-01 1.07E 00(1/ 12)
BALA-140	36	15.00	0.00E-01-- 0.00E-01 -5.52E-01(0/ 24)	006.1	0.00E-01-- 0.00E-01 -4.62E-01(0/ 12)	4.76E 00-- 4.76E 00 -3.13E-01(0/ 12)
			0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01

MEAN BASED UPON ALL NET ACTIVITY MEASUREMENTS
RANGE BASED UPON DETECTABLE ACTIVITY MEASUREMENTS ONLY
ZERO RANGE INDICATES NO DETECTABLE ACTIVITY MEASUREMENTS

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

PAGE 9 OF 17

OCONEE NUCLEAR STATION
PICKENS COUNTY, SOUTH CAROLINA

DOCKET NUMBER 50-269,-270,-287
JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	I I I I	TYPE & TOTAL NO. OF ANALYSES PERFORMED	I I I I	(LLD)	I I I I	ALL INDICATOR LOCATIONS MEANS (F) RANGE	I I I I	LOCATION W/ HIGHEST ANN. MEAN NAME DIST/ DIRECTION	I I I I	CONTROL LOCATIONS MEAN (F) RANGE 004.1 6.0 mi/SSW	I I I I	NO. OF NON- ROUTINE REPORT MEAS.
RAW WATER	I		I		I		I		I		I	
COMPOSITE	I		I		I		I		I		I	
PCI/L	I		I		I		I		I		I	
3 LOCATIONS	I		I		I		I		I		I	
	I	SR-89	12	I	10.00	I	< LLD (0/ 8)	I	< LLD	I	< LLD (0/ 4)	I
	I			I		I		I		I		I
	I	SR-90	12	I	2.00	I	< LLD (0/ 8)	I	< LLD	I	< LLD (0/ 4)	I
	I			I		I		I		I		I
	I	H-3	12	I	330.00	I	5.44E 02(8/ 8)	I	006.1 7.80E 02(4/ 4)	I	1.83E 02(4/ 4)	I
	I			I		I	2.90E 02-- 1.47E 03	I	8.5 mi/SSE 4.70E 02-- 1.47E 03	I	1.10E 02-- 2.50E 02	I

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ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

PAGE 10 OF 17

OCONEE NUCLEAR STATION
PICKENS COUNTY, SOUTH CAROLINA

DOCKET NUMBER 50-269,-270,-287
JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	TYPE & TOTAL NO. OF ANALYSES PERFORMED	(LLD)	ALL INDICATOR LOCATIONS MEANS (F) RANGE	LOCATION W/ HIGHEST ANN. MEAN NAME DIST/ DIRECTION	CONTROL LOCATIONS MEAN (F) RANGE 006.3 9.5 mi/SSE	NO. OF NON- ROUTINE REPORT MEAS.
MILK						
PCI/L						
3 LOCATIONS						
SR-89	18	10.00	< LLD (0/ 14)	< LLD	< LLD (0/ 4)	
SR-90	18	2.00	3.13E 00(14/ 14)	002.1 3.16E 00(12/ 12)	3.58E 00(4/ 4)	
H-3	18	330.00	9.80E-01-- 5.80E 00	4.5 mi/W 9.80E-01-- 5.80E 00	2.50E 00-- 5.10E 00	
I-131/LL	57	0.50	1.80E 02(14/ 14)	002.1 1.81E 02(12/ 12)	4.23E 02(4/ 4)	
K-40	18	200.00	1.00E 02-- 2.70E 02	002.1 1.20E 02-- 2.70E 02	2.10E 02-- 6.20E 02	
MN-54	18	0.00	3.19E-03(2/ 53)	002.1 7.38E-03(2/ 51)	2.42E-02(0/ 4)	
FE-59	18	0.00	2.11E-01-- 2.32E-01	002.1 2.11E-01-- 2.32E-01	0.00E-01-- 0.00E-01	
CO-58	18	0.00	1.35E 03(14/ 14)	002.1 1.38E 03(12/ 12)	1.37E 03(4/ 4)	
CO-60	18	0.00	1.02E 03-- 1.57E 03	015 1.18E 03-- 1.57E 03	1.22E 03-- 1.50E 03	
ZN-65	18	0.00	2.76E-02(0/ 14)	2.0 mi/SSE 9.83E-01(0/ 2)	2.63E-01(0/ 4)	
ZR-95	18	0.00	0.00E-01-- 0.00E-01	002.1 0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	
NB-95	18	0.00	3.10E 00(3/ 14)	002.1 3.39E 00(3/ 12)	1.23E 00(0/ 4)	
I-131	18	15.00	1.10E 01-- 1.70E 01	002.1 1.10E 01-- 1.70E 01	0.00E-01-- 0.00E-01	
CS-134	18	15.00	2.52E-01(0/ 14)	015 2.94E-01(0/ 12)	1.08E 00(0/ 4)	
CS-137	18	15.00	0.00E-01-- 0.00E-01	015 0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	
BALA-140	18	15.00	5.46E-01(0/ 14)	015 1.12E 00(0/ 2)	2.33E 00(1/ 4)	
			0.00E-01-- 0.00E-01	015 0.00E-01-- 0.00E-01	1.14E 01-- 1.14E 01	
			-5.77E-01(0/ 14)	015 8.47E-01(0/ 2)	1.52E 00(0/ 4)	
			0.00E-01-- 0.00E-01	002.1 0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	
			2.31E 00(2/ 14)	015 2.55E 00(2/ 12)	-3.18E 00(0/ 4)	
			8.84E 00-- 1.32E 01	015 8.84E 00-- 1.32E 01	0.00E-01-- 0.00E-01	
			5.51E-01(0/ 14)	015 5.63E-01(0/ 2)	-9.78E-01(0/ 4)	
			0.00E-01-- 0.00E-01	015 0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	
			2.77E 00(2/ 14)	015 3.30E 00(0/ 2)	-9.35E-02(0/ 4)	
			7.01E 00-- 1.98E 01	015 0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	
			-1.36E 00(0/ 14)	015 1.25E 00(0/ 2)	1.63E 00(0/ 4)	
			0.00E-01-- 0.00E-01	002.1 0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	
			2.27E 00(3/ 14)	015 2.71E 00(3/ 12)	3.25E 00(1/ 4)	
			6.95E 00-- 8.33E 00	015 6.95E 00-- 8.33E 00	7.44E 00-- 7.44E 00	
			3.07E-01(0/ 14)	015 1.64E 00(0/ 2)	-3.47E-02(0/ 4)	
			0.00E-01-- 0.00E-01	015 0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	

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RANGE BASED UPON DETECTABLE ACTIVITY MEASUREMENTS ONLY
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ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

PAGE 11 OF 17

OCONEE NUCLEAR STATION
PICKENS COUNTY, SOUTH CAROLINA

DOCKET NUMBER 50-269.-270.-287
JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	TYPE & TOTAL NO. OF ANALYSES PERFORMED	(LLD)	ALL INDICATOR LOCATIONS MEANS (F) RANGE	LOCATION W/ HIGHEST ANN. MEAN NAME DIST/ DIRECTION	CONTROL LOCATIONS MEAN (F) RANGE 006 9.5 mi/SSE	NO. OF NON- ROUTINE REPORT MEAS.
COMMERCIAL CROPS PCI/KG (WET) 2 LOCATIONS						
K-40	5	400.00	3.80E 03(4/ 4)	015	3.80E 03(4/ 4)	1
MN-54	5	0.00	2.47E 03-- 6.11E 03 -1.31E 01(0/ 4)	12.0 mi/SSE 015	2.47E 03-- 6.11E 03 -1.31E 01(0/ 4)	1
FE-59	5	0.00	0.00E-01-- 0.00E-01 8.95E 00(0/ 4)	015	0.00E-01-- 0.00E-01 8.95E 00(0/ 4)	1
CO-58	5	0.00	0.00E-01-- 0.00E-01 5.76E 00(0/ 4)	015	0.00E-01-- 0.00E-01 5.76E 00(0/ 4)	1
CO-60	5	0.00	0.00E-01-- 0.00E-01 -1.02E 01(0/ 4)	015	0.00E-01-- 0.00E-01 -1.02E 01(0/ 4)	1
ZN-65	5	0.00	0.00E-01-- 0.00E-01 -1.29E 01(0/ 4)	015	0.00E-01-- 0.00E-01 -1.29E 01(0/ 4)	1
ZR-95	5	0.00	0.00E-01-- 0.00E-01 -2.57E 00(0/ 4)	015	0.00E-01-- 0.00E-01 -2.57E 00(0/ 4)	1
NB-95	5	0.00	0.00E-01-- 0.00E-01 9.87E 00(1/ 4)	015	0.00E-01-- 0.00E-01 9.87E 00(1/ 4)	1
I-131	5	80.00	2.64E 01-- 2.64E 01 -5.45E 00(0/ 4)	015	2.64E 01-- 2.64E 01 -5.45E 00(0/ 4)	1
CS-134	5	100.00	0.00E-01-- 0.00E-01 -4.53E 00(0/ 4)	015	0.00E-01-- 0.00E-01 -4.53E 00(0/ 4)	1
CS-137	5	100.00	0.00E-01-- 0.00E-01 -2.09E 00(0/ 4)	015	0.00E-01-- 0.00E-01 -2.09E 00(0/ 4)	1
BALA-140	5	0.00	0.00E-01-- 0.00E-01 1.42E 00(0/ 4)	015	0.00E-01-- 0.00E-01 1.42E 00(0/ 4)	1
			0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	1

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ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

PAGE 12 OF 17

OCONEE NUCLEAR STATION
PICKENS COUNTY, SOUTH CAROLINA

DOCKET NUMBER 50-269,-270,-287
JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	TYPE & TOTAL NO. OF ANALYSES PERFORMED	(LLD)	ALL INDICATOR LOCATIONS MEANS (F) RANGE	LOCATION W/ HIGHEST ANN. MEAN NAME DIST/ DIRECTION	CONTROL LOCATIONS MEAN (F) RANGE 000.5 1.0 mi/NNE	NO. OF NON- ROUTINE REPORT MEAS.
AQUATIC VEGETATION PCI/KG (WET) 3 LOCATIONS						
SR-89	6	40.00	< LLD (0/ 4)	< LLD 0.7 mi/ESE	< LLD (0/ 2)	
SR-90	6	8.00	4.43E 01(3/ 4) 2.40E 01-- 7.10E 01	000.4 4.75E 01(2/ 2) 2.40E 01-- 7.10E 01	2.15E 01(2/ 2) 1.90E 01-- 2.40E 01	
K-40	6	400.00	2.62E 03(4/ 4) 6.68E 02-- 5.05E 03	000.4 3.55E 03(2/ 2) 2.05E 03-- 5.05E 03	3.30E 03(2/ 2) 3.27E 03-- 3.33E 03	
MN-54	6	0.00	3.32E 01(3/ 4) 1.59E 01-- 6.28E 01	000.4 6.01E 01(2/ 2) 5.73E 01-- 6.28E 01	-2.86E 00(0/ 2) 0.00E-01-- 0.00E-01	
FE-59	6	0.00	-1.05E 01(0/ 4) 0.00E-01-- 0.00E-01	000.4 -9.30E 00(0/ 2) 0.00E-01-- 0.00E-01	0.85E-02(0/ 2) 0.00E-01-- 0.00E-01	
CO-58	6	0.00	4.41E 02(3/ 4) 3.47E 01-- 1.09E 03	000.4 8.44E 02(2/ 2) 5.95E 02-- 1.09E 03	-8.81E 00(0/ 2) 0.00E-01-- 0.00E-01	
CO-60	6	0.00	1.36E 02(2/ 4) 2.13E 02-- 2.80E 02	000.4 2.46E 02(2/ 2) 2.13E 02-- 2.80E 02	2.09E-02(0/ 2) 0.00E-01-- 0.00E-01	
ZN-65	6	0.00	-1.03E 00(0/ 4) 0.00E-01-- 0.00E-01	005.2 -3.42E-01(0/ 2) 0.00E-01-- 0.00E-01	0.88E 00(0/ 2) 0.00E-01-- 0.00E-01	
ZR-95	6	0.00	1.97E 01(0/ 4) 0.00E-01-- 0.00E-01	005.2 3.30E 01(0/ 2) 0.00E-01-- 0.00E-01	-1.53E 00(0/ 2) 0.00E-01-- 0.00E-01	
NB-95	6	0.00	1.46E 01(0/ 4) 0.00E-01-- 0.00E-01	005.2 1.56E 01(0/ 2) 0.00E-01-- 0.00E-01	-6.13E 00(0/ 2) 0.00E-01-- 0.00E-01	
I-131	6	80.00	-5.69E 00(0/ 4) 0.00E-01-- 0.00E-01	000.4 8.21E-01(0/ 2) 0.00E-01-- 0.00E-01	-8.06E 00(0/ 2) 0.00E-01-- 0.00E-01	
CS-134	6	100.00	4.05E 02(4/ 4) 3.89E 01-- 1.03E 03	000.4 7.47E 02(2/ 2) 4.67E 02-- 1.03E 03	3.77E 00(0/ 2) 0.00E-01-- 0.00E-01	
CS-137	6	100.00	8.10E 02(4/ 4) 9.63E 01-- 1.78E 03	000.4 1.52E 03(2/ 2) 1.26E 03-- 1.78E 03	3.04E 01(1/ 2) 4.52E 01-- 4.52E 01	
BALA-140	6	0.00	-1.22E 01(0/ 4) 0.00E-01-- 0.00E-01	000.4 3.16E 00(0/ 2) 0.00E-01-- 0.00E-01	-9.29E 00(0/ 2) 0.00E-01-- 0.00E-01	

MEAN BASED UPON ALL NET ACTIVITY MEASUREMENTS

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FRACTION OF DETECTABLE ACTIVITY MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES. (F)

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

OCONEE NUCLEAR STATION
PICKENS COUNTY, SOUTH CAROLINA

DOCKET NUMBER 50-269,-270,-287
JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	TYPE & TOTAL NO. OF ANALYSES PERFORMED	(LLD)	ALL INDICATOR LOCATIONS MEANS (F) RANGE	LOCATION W/ HIGHEST ANN. MEAN NAME DIST/ DIRECTION	MEAN (F) RANGE	CONTROL LOCATIONS MEAN (F) RANGE 006 9.5 mi/SSE	NO. OF NON- ROUTINE REPORT MEAS.
RAIN & SETTLED DUST PCI/SQ M 6 LOCATIONS							
ALPHA-T	71	0.00	5.52E 01(50/ 60)	010	6.07E 01(8/ 12)	5.85E 01(9/ 11)	
BETA-T	71	0.00	1.97E 01-- 1.55E 02 5.37E 02(60/ 60)	12.0 mi/ENE 002	1.98E 01-- 1.55E 02 5.98E 02(11/ 11)	2.16E 01-- 1.13E 02 5.66E 02(11/ 11)	
MN-54	71	0.00	1.29E 01-- 1.20E 03 2.32E 02(4/ 60)	10.0 mi/WSW 000.1	2.87E 02-- 9.90E 02 7.20E 02(1/ 13)	2.51E 02-- 1.09E 03 -1.02E 01(0/ 11)	
FE-59	71	0.00	3.07E 02-- 9.53E 03 8.76E 01(3/ 60)	0.5 mi/S 002	9.53E 03-- 9.53E 03 1.89E 02(2/ 11)	0.00E-01-- 0.00E-01 4.88E 01(1/ 11)	1
CO-58	71	0.00	7.67E 02-- 2.67E 03 2.98E 03(2/ 60)	000.1	7.67E 02-- 8.95E 02 1.37E 04(1/ 13)	1.22E 03-- 1.22E 03 1.30E 02(1/ 11)	
CO-60	71	0.00	1.07E 03-- 1.78E 05 7.75E 02(5/ 60)	000.1	1.78E 05-- 1.78E 05 3.00E 03(2/ 13)	7.15E 02-- 7.15E 02 7.66E 00(0/ 11)	1
ZN-65	71	0.00	7.23E 02-- 3.75E 04 -2.67E 00(0/ 60)	010	7.23E 02-- 3.75E 04 6.26E 01(0/ 12)	0.00E-01-- 0.00E-01 -1.01E 02(0/ 11)	
ZR-95	71	0.00	0.00E-01-- 0.00E-01 1.32E 02(1/ 60)	010	0.00E-01-- 0.00E-01 2.92E 02(0/ 12)	0.00E-01-- 0.00E-01 1.54E 02(1/ 11)	
NB-95	71	0.00	1.17E 03-- 1.17E 03 2.10E 02(4/ 60)	010 000.1	0.00E-01-- 0.00E-01 4.93E 02(1/ 13)	9.79E 02-- 9.79E 02 1.33E 02(1/ 11)	
I-131	71	0.00	3.47E 02-- 5.45E 03 2.12E 02(3/ 60)	010	5.45E 03-- 5.45E 03 3.42E 02(0/ 12)	7.18E 02-- 7.18E 02 1.53E 02(0/ 11)	
CS-134	71	0.00	9.63E 02-- 1.85E 03 4.56E 01(1/ 60)	010 000.2	0.00E-01-- 0.00E-01 3.40E 02(1/ 12)	0.00E-01-- 0.00E-01 -8.57E 01(0/ 11)	
CS-137	71	0.00	7.46E 02-- 7.46E 02 1.07E 02(5/ 60)	0.7 mi/SSW 010	7.46E 02-- 7.46E 02 1.58E 02(1/ 12)	0.00E-01-- 0.00E-01 4.12E 01(1/ 11)	
BALA-140	71	0.00	5.84E 02-- 1.06E 03 4.00E 01(2/ 60)	000	5.84E 02-- 5.84E 02 1.20E 02(1/ 12)	6.24E 02-- 6.24E 02 1.21E 02(0/ 11)	
			1.10E 03-- 1.58E 03	0.3 mi/N	1.58E 03-- 1.58E 03	0.00E-01-- 0.00E-01	

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ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

OCONEE NUCLEAR STATION
PICKENS COUNTY, SOUTH CAROLINA

DOCKET NUMBER 50-269,-270,-287
JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	TYPE & TOTAL NO. OF ANALYSES PERFORMED	(LLD)	ALL INDICATOR LOCATIONS MEANS (F) RANGE	LOCATION W/ HIGHEST ANN. MEAN NAME DIST/ DIRECTION	CONTROL LOCATIONS MEAN (F) RANGE 000.5 1.0 mi/NNE	NO. OF NON- ROUTINE REPORT MEAS.
BOTTOM SEDIMENT PCI/KG (DRY) 6 LOCATIONS						
SR-89	12	600.00	< LLD (0/ 10)	< LLD	< LLD (0/ 2)	
SR-90	12	150.00	< LLD (0/ 10)	< LLD	< LLD (0/ 2)	
MN-54	12	0.00	8.93E 00(1/ 10)	000.4 2.56E 01(1/ 2)	4.00E 00(0/ 2)	
FE-59	12	0.00	2.09E 01-- 2.09E 01 2.31E 01(1/ 10)	0.7 mi/ENE 2.09E 01-- 2.09E 01 000.7 4.19E 01(0/ 2)	0.00E-01-- 0.00E-01 -1.26E 01(0/ 2)	
CO-58	12	0.00	5.22E 01-- 5.22E 01 1.20E 01(2/ 10)	0.9 mi/ESE 0.00E-01-- 0.00E-01 000.4 4.04E 01(1/ 2)	0.00E-01-- 0.00E-01 -7.15E 00(0/ 2)	
CO-60	12	0.00	3.55E 01-- 6.49E 01 7.69E 01(5/ 10)	000.4 6.49E 01-- 6.49E 01 3.29E 02(2/ 2)	0.00E-01-- 0.00E-01 2.40E 01(1/ 2)	
ZN-65	12	0.00	2.86E 01-- 4.51E 02 -3.47E 00(0/ 10)	006.2 2.07E 02-- 4.51E 02 8.0 mi/SSE 0.00E-01-- 0.00E-01	1.70E 01(0/ 2) 0.00E-01-- 0.00E-01	
ZR-95	12	0.00	0.00E-01-- 0.00E-01 1.31E 01(0/ 10)	005.2 4.11E 01(0/ 2)	-1.14E 01(0/ 2)	
NB-95	12	0.00	0.00E-01-- 0.00E-01 5.77E 00(0/ 10)	4.5 mi/SSE 0.00E-01-- 0.00E-01 000.7 1.70E 01(0/ 2)	0.00E-01-- 0.00E-01 3.05E 01(1/ 2)	
I-131	12	0.00	0.00E-01-- 0.00E-01 -3.01E 00(0/ 10)	006.2 1.07E 01(0/ 2)	-2.69E 00(0/ 2)	
CS-134	12	150.00	0.00E-01-- 0.00E-01 4.56E 02(9/ 10)	000.4 0.00E-01-- 0.00E-01 1.81E 03(2/ 2)	0.00E-01-- 0.00E-01 1.68E 01(1/ 2)	
CS-137	12	150.00	2.64E 01-- 1.96E 03 1.42E 03(9/ 10)	000.4 1.66E 03-- 1.96E 03 6.18E 03(2/ 2)	4.12E 01-- 4.12E 01 3.09E 00(0/ 2)	
BALA-140	12	0.00	3.06E 01-- 6.44E 03 -1.63E 00(0/ 10)	005.2 5.91E 03-- 6.44E 03 4.34E 00(0/ 2)	0.00E-01-- 0.00E-01 3.13E 00(0/ 2)	
			0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	

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ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

PAGE 15 OF 17

OCONEE NUCLEAR STATION
PICKENS COUNTY, SOUTH CAROLINA

DOCKET NUMBER 50-269,-270,-287
JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	TYPE & TOTAL NO. OF ANALYSES PERFORMED	(LLD)	ALL INDICATOR LOCATIONS MEANS (F) RANGE	LOCATION W/ HIGHEST ANN. MEAN NAME DIST/ DIRECTION	CONTROL LOCATIONS MEAN (F) RANGE 000.5 1.1 mi/SW	NO. OF NON- ROUTINE REPORT MEAS.
FISH						
PC1/KG (WET) 2 LOCATIONS						
SR-89	11	40.00	< LLD (0/ 6)	< LLD	< LLD (0/ 5)	
SR-90	11	8.00	1.48E 02(6/ 6)	013 1.48E 02(6/ 6)	3.00E 02(5/ 5)	
K-40	11	1200.00	2.20E 01-- 3.80E 02 (6/ 6)	7.8 mi/SSE 2.20E 01-- 3.80E 02 (6/ 6)	1.30E 02-- 5.20E 02 (5/ 5)	
MN-54	11	130.00	2.02E 03(6/ 6)	013 2.02E 03(6/ 6)	2.23E 03(5/ 5)	
FE-59	11	260.00	1.16E 03-- 2.56E 03 (1/ 6)	013 1.16E 03-- 2.56E 03 (1/ 6)	1.65E 03-- 2.68E 03 (0/ 5)	
CO-58	11	130.00	-1.16E 00(0/ 6)	013 -1.16E 00(0/ 6)	4.22E 00(0/ 5)	
CO-60	11	130.00	1.86E 01-- 1.86E 01 (0/ 6)	013 1.86E 01-- 1.86E 01 (0/ 6)	0.00E-01-- 0.00E-01 (1/ 5)	
ZN-65	11	260.00	1.29E 01(0/ 6)	013 1.29E 01(0/ 6)	3.15E 01(0/ 5)	
ZR-95	11	0.00	0.00E-01-- 0.00E-01 (0/ 6)	013 0.00E-01-- 0.00E-01 (0/ 6)	8.20E 01-- 8.20E 01 (0/ 5)	
NB-95	11	0.00	9.83E-01(0/ 6)	013 9.83E-01(0/ 6)	3.17E 00(0/ 5)	
I-131	11	0.00	0.00E-01-- 0.00E-01 (1/ 6)	013 0.00E-01-- 0.00E-01 (1/ 6)	0.00E-01-- 0.00E-01 (0/ 5)	
CS-134	11	130.00	8.03E 00(1/ 6)	013 8.03E 00(1/ 6)	7.87E 00(0/ 5)	
CS-137	11	130.00	2.29E 01-- 2.29E 01 (0/ 6)	013 2.29E 01-- 2.29E 01 (0/ 6)	0.00E-01-- 0.00E-01 (0/ 5)	
BALA-140	11	0.00	-8.47E 00(0/ 6)	013 -8.47E 00(0/ 6)	9.26E 00(0/ 5)	
			0.00E-01-- 0.00E-01 (0/ 6)	013 0.00E-01-- 0.00E-01 (0/ 6)	0.00E-01-- 0.00E-01 (0/ 5)	
			0.00E-01-- 0.00E-01 (0/ 6)	013 0.00E-01-- 0.00E-01 (0/ 6)	0.00E-01-- 0.00E-01 (0/ 5)	
			1.69E 00(1/ 6)	013 1.69E 00(1/ 6)	4.37E 00(0/ 5)	
			2.27E 01-- 2.27E 01 (0/ 6)	013 2.27E 01-- 2.27E 01 (0/ 6)	0.00E-01-- 0.00E-01 (0/ 5)	
			1.66E 01(0/ 6)	013 1.66E 01(0/ 6)	5.12E 01(0/ 5)	
			0.00E-01-- 0.00E-01 (0/ 6)	013 0.00E-01-- 0.00E-01 (0/ 6)	0.00E-01-- 0.00E-01 (0/ 5)	
			1.17E 02(6/ 6)	013 1.17E 02(6/ 6)	1.65E 00(0/ 5)	
			5.02E 01-- 1.98E 02 (6/ 6)	013 5.02E 01-- 1.98E 02 (6/ 6)	0.00E-01-- 0.00E-01 (0/ 5)	
			2.94E 02(6/ 6)	013 2.94E 02(6/ 6)	4.99E 01(3/ 5)	
			1.69E 02-- 4.27E 02 (0/ 6)	013 1.69E 02-- 4.27E 02 (0/ 6)	3.55E 01-- 8.81E 01 (0/ 5)	
			1.17E 01(0/ 6)	013 1.17E 01(0/ 6)	1.21E 01(0/ 5)	
			0.00E-01-- 0.00E-01 (0/ 6)	013 0.00E-01-- 0.00E-01 (0/ 6)	0.00E-01-- 0.00E-01 (0/ 5)	

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ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

PAGE 16 OF 17

OCONEE NUCLEAR STATION
PICKENS COUNTY, SOUTH CAROLINA

DOCKET NUMBER 50-269,-270,-287
JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	TYPE & TOTAL NO. OF ANALYSES PERFORMED	(LLD)	ALL INDICATOR LOCATIONS MEANS (F) RANGE	LOCATION W/ HIGHEST ANN. MEAN NAME DIST/ DIRECTION	MEAN (F) RANGE	CONTROL LOCATIONS MEAN (F) RANGE 006 9.5 mi/SSE	NO. OF NON- ROUTINE REPORT MEAS.
BROAD-LEAF VEGETATION PCI/KG (WET) 4 LOCATIONS							
K-40	16	400.00	7.31E 03(12/ 12)	015	7.72E 03(4/ 4)	6.56E 03(4/ 4)	
MN-54	16	0.00	5.41E 03-- 1.07E 04 1.06E 00(1/ 12)	2.0 mi/SSE 000	5.41E 03-- 1.07E 04 1.16E 01(1/ 4)	4.85E 03-- 8.53E 03 6.00E 00(1/ 4)	
FE-59	16	0.00	3.22E 01-- 3.22E 01 1.84E 01(0/ 12)	0.3 mi/N 000	3.22E 01-- 3.22E 01 2.98E 01(0/ 4)	5.09E 01-- 5.09E 01 -1.93E 00(0/ 4)	
CO-58	16	0.00	0.00E-01-- 0.00E-01 6.86E 00(0/ 12)	015	0.00E-01-- 0.00E-01 1.38E 01(0/ 4)	0.00E-01-- 0.00E-01 -9.92E 00(0/ 4)	
CO-60	16	0.00	0.00E-01-- 0.00E-01 5.25E 00(1/ 12)	000	0.00E-01-- 0.00E-01 7.32E 00(1/ 4)	0.00E-01-- 0.00E-01 1.26E 01(1/ 4)	
ZN-65	16	0.00	4.74E 01-- 4.74E 01 -1.47E 00(0/ 12)	000	4.74E 01-- 4.74E 01 2.78E 00(0/ 4)	5.26E 01-- 5.26E 01 -8.99E 00(0/ 4)	
ZR-95	16	0.00	0.00E-01-- 0.00E-01 3.01E 00(0/ 12)	002.1	0.00E-01-- 0.00E-01 1.10E 01(0/ 4)	0.00E-01-- 0.00E-01 1.50E 00(0/ 4)	
NB-95	16	0.00	0.00E-01-- 0.00E-01 6.22E 00(1/ 12)	4.5 mi/W 015	0.00E-01-- 0.00E-01 1.86E 01(1/ 4)	0.00E-01-- 0.00E-01 4.70E 00(0/ 4)	
I-131	16	80.00	7.20E 01-- 7.20E 01 -4.47E-01(0/ 12)	015	7.20E 01-- 7.20E 01 9.30E-01(0/ 4)	0.00E-01-- 0.00E-01 -1.27E 01(0/ 4)	
CS-134	16	100.00	0.00E-01-- 0.00E-01 1.07E 00(0/ 12)	015	0.00E-01-- 0.00E-01 6.65E 00(0/ 4)	0.00E-01-- 0.00E-01 2.15E 01(1/ 4)	
CS-137	16	100.00	0.00E-01-- 0.00E-01 7.84E 00(2/ 12)	015	0.00E-01-- 0.00E-01 2.42E 01(2/ 4)	4.98E 01-- 4.98E 01 2.62E 01(1/ 4)	
BALA-140	16	0.00	3.58E 01-- 5.10E 01 5.64E 00(1/ 12)	000	3.58E 01-- 5.10E 01 9.10E 00(1/ 4)	4.86E 01-- 4.86E 01 -1.01E 01(0/ 4)	
			3.64E 01-- 3.64E 01		3.64E 01-- 3.64E 01	0.00E-01-- 0.00E-01	

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ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

PAGE 17 OF 17

OCONEE NUCLEAR STATION
PICKENS COUNTY, SOUTH CAROLINA

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JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	I	TYPE & TOTAL NO. OF ANALYSES PERFORMED	I	(LLD)	I	ALL INDICATOR LOCATIONS MEANS (F) RANGE	I	LOCATION W/ HIGHEST ANN. MEAN I-----I NAME DIST/ DIRECTION	I	CONTROL LOCATIONS MEAN (F) RANGE 008 13.0 mi/E	I	NO. OF NON- ROUTINE REPORT MEAS.	
TLD'S	I		I		I		I		I		I		
MR/HOUR	I		I		I		I		I		I		
26 LOCATIONS	I		I		I		I		I		I		
	I	MR/HOUR	96	I	0.00	I	1.81E-02(92/ 92)	I	000.17	5.83E-02(4/ 4)	I	1.38E-02(4/ 4)	I
	I		I	I		I	7.00E-03-- 6.90E-02	I	Site Fence/W	4.80E-02-- 6.90E-02	I	1.10E-02-- 1.50E-02	I

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OCONEE NUCLEAR STATION
SEMI-ANNUAL CENSUS OF MILCH ANIMALS
Table 2

<u>Name</u>	<u>Distance/Direction From Station</u>	<u>June 28, 1982</u>		<u>December 14, 1982</u>	
		<u>Cows</u>	<u>Goats</u>	<u>Cows</u>	<u>Goats</u>
I. C. Few	4.0 mi/ENE	1	0	1	0
A Rampey	4.5 mi/ESE	1	0	*	*
L. Sammie	2.8 mi/ESE	2	0	2	0
F. Merck	3.1 mi/ESE	2	0	4	0
B. Shirley	4.0 mi/W	1	0	3	0
W. Powell	4.5 mi/W	85	0	80	0
T. I. Miller	5.0 mi/E	*	*	2	0
G. Bailey	3.5 mi/ENE	*	*	2	0

*Not Milking

DUKE POWER COMPANY
P.O. BOX 33189
CHARLOTTE, N.C. 28242

HAL B. TUCKER
VICE PRESIDENT
NUCLEAR PRODUCTION

April 21, 1983

5/2/83
PRR
Cunningham
DW
TELEPHONE
(704) 373-4531
100-1
12:04

Mr. James P. O'Reilly, Regional Administrator
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, Suite 2900
Atlanta, Georgia 30303

Re: Oconee Nuclear Station
Docket Nos. 50-269, -270, --287 / D

Dear Mr. O'Reilly:

Pursuant to Oconee Nuclear Station Technical Specification 6.6.1.5, please find attached the Oconee Nuclear Station 1982 Annual Environmental Radiological Monitoring Report.

Very truly yours,

H.B. Tucker / HBT

Hal B. Tucker

JCP:scs

Attachment

cc: Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

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