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DUKE POWER COMPANY
OCONEE NUCLEAR STATION
ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM
ANNUAL OPERATING REPORT

January 1, 1983 - December 31, 1983

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OCONEE NUCLEAR STATION
ANNUAL RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM
OPERATING REPORT FOR 1983

Table 1 summarizes the results of the Environmental Radiological Monitoring Program for 1983. 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.

Duke Power Company's Environmental Radiological Laboratory performs the program analyses with the exception of Sr-89, Sr-90, and H-3 analyses which are performed by Teledyne Isotopes. Both the Environmental Radiological Laboratory and Teledyne Isotopes participate in the EPA Cross-Check Program; the cross-check code designations are CP and CJ, respectively.

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

Unavailable Analyses

<u>Sample</u>	<u>Reason</u>
A. <u>Air Filter/Cartridge</u>	
1. (014), 2/8-2/15/83	Sampler pump stopped but timer continued to run; sampler run time could not be calculated.
2. (009), 7/5-7/12/83	Sampler blew fuse; insufficient sampler run time.
B. <u>Commercial Crops</u>	
1. (015), 1/1-3/31/83	Crops not available.
2. (015), 4/1-6/30/83	Crops not available.
C. <u>Fish</u>	
1. (000.5), 7/28-7/30/83	Forage fish could not be collected.
D. <u>Milk</u>	
1. (002.1), 11/8/83	Low Level I-131 analysis not performed; sample spilled during transport. Sample also could not be added to monthly composite for gamma, Sr-89, Sr-90 and H-3 analyses.
E. <u>Rain and Settled Dust</u>	
1. (006), 5/3-6/7/83	Bucket split during transport; sample lost.

F. Surface Water

- 1. (000.7), 12/6-1/3/84

Alpha and beta analyses not performed due to incorrect sample location on sample transmittal sheet and sample container.

G. TLD

- 1. (009), 12/28-3/30/83
- 2. (004), 3/30-6/29/83
- 3. (001), 6/29-9/28/83
- 4. (005), 6/29-9/28/83
- 5. (008), 9/28-1/2/84

Missing.
Missing.
Missing.
Missing.
Missing.

Deviations from Required Sampling Schedule
Sample

Reason

A. Air Filter/Cartridge

- 1. (006), 3/22-3/29/83
- 2. (006), 5/10-5/17/83
- 3. (006), 5/17-5/24/83
- 4. (014), 6/7-6/14/83
- 5. (009), 6/21-6/28/83
- 6. (009), 6/21-6/28/83
- 7. (014), 10/4-10/11/83
- 8. (000), (006)
(009), (014) 12/27-1/3/84

Sampler blew fuse; sample collection period 140 hours.
Power to sampler was cut off during sampling period; sample collection period <168 hours.
Power to sampler was cut off during sampling period; sample collection period 143 hours.
Sampler blew fuse; sample collection period 164 hours.
Power to sampler cut off during sampling period; sample collection period <168 hours.
Sampler had to be replaced during sampling period; sample collection period <168 hours.
Power to sampler cut off during sampling period; sample collection period <168 hours.
Samples collected at all air sampling locations on 1/1/84 to implement ONS Revised Technical Specifications. Air samplers were relocated at new locations within ~ 1 hour of cut off at old locations.

B. Drinking Water

1. (006.1), 11/1-12/6/83

Sampler stopped; grab sample collected on 12/6/83. Collection of grab sample affected quarterly composite for Sr-89, Sr-90 and H-3 (10/4/83-1/3/84) as it is not representative of entire collection period.

2. (004.1), 12/27-1/3/84

Sampler stopped; grab sample collected on 1/3/84. Collection of grab sample affected quarterly composite for Sr-89, Sr-90 and H-3 (10/4/83-1/3/84) as it is not representative of entire collection period.

C. Raw Water

1. (004.1), 11/8-11/15/83

Sampler stopped during weekly composite; grab sample collected on 11/15/83. Collection of grab sample affected quarterly composite for Sr-89, Sr-90 and H-3 (10/11-12/20/83) as it is not representative of entire collection period.

2. (006.1), 11/8-11/15/83

Sampler stopped during weekly composite; grab sample collected on 11/15/83. Collection of grab sample affected quarterly composite for Sr-89, Sr-90, and H-3 (10/11-12/20/83) as it is not representative of entire collection period.

3. (012), 11/8-11/15/83

Sampler stopped during weekly composite; grab sample collected on 11/15/83. Collection of grab sample affected quarterly composite for Sr-89, Sr-90, and H-3 (10/11-12/20/83) as it is not representative of entire collection period.

4. (004.1), 12/13-12/20/83

Sampler stopped during weekly composite; grab sample collected on 12/20/83. Collection of grab sample affected quarterly composite for Sr-89, Sr-90 and H-3 (10/11-12/20/83) as it is not representative of entire collection period.

5. (006.1), 12/13-12/20/83

Sampler stopped during weekly composite; grab sample collected. Collection of grab sample affected quarterly composite for Sr-89, Sr-90 and H-3 (10/11-12/20/83) as it is not representative of entire collection period.

D. Surface Water

1. (000.7), 11/1-12/6/83

Sampler pump out of service from 11/8/83 @ 1300 to 11/9/83 @ 1300.

In all of the above instances of equipment malfunction, appropriate corrective action was taken to repair the equipment prior to the end of the next sampling period.

Lower Limits of Detection Not Met

<u>Sample</u>	<u>Radionuclide</u>	<u>Reason</u>
A. <u>Air Filter Comp</u>		
1. (009), 2/1-3/1/83	Sr-89	Sample analyzed by vendor.
B. <u>Air Filter</u>		
1. (009), 10/11-10/18/83	Cs-134	Analysis inadvertently terminated prior to completion.
C. <u>Aquatic Vegetation</u>		
1. (000.4), 8/2/83	I-131	LLD not met due to background contributions from other radionuclides in sample.
D. <u>Drinking Water</u>		
1. (006.1), 4/5-5/3/83;	Total Alpha	Low efficiencies due to large quantity of solids in samples made count times necessary to meet LLD unacceptably long.
2. (012), 4/5-5/3/83;		
3. (012), 7/5-8/2/83;		
4. (006.1), 8/2-9/6/83		
5. (004.1), 7/5-8/2/83	Total Alpha	Preset count time too short.
6. (006.1), 9/6-10/4/83	I-131; BaLa-140	Large sample backlog caused too much decay time between sample collection and count date; count time necessary to meet I-131 and BaLa-140 LLD's was unacceptably long.

E. Fish

1. (000.5 - Bass), 2/8-2/10/83; Sr-89
2. (000.5 - Shad), 2/24/83;
3. (000.5 - Carp), 2/9/83;
4. (013 - Bass), 2/14-2/16/83;
5. (013 - Shad), 2/14-2/16/83;
6. (013 - Carp), 2/14-2/16/83;
7. (000.5 - Bass), 7/28-7/30/83;
8. (000.5-Carp), 7/28/83;
9. (013 - Bass), 8/2-8/3/83;
10. (013 - Carp), 8/2-8/3/83

All Sr-89 analyses were performed by Teledyne Isotopes. The vendor is aware of the ONS LLD's for Sr-89 in fish samples. The reason for not meeting the LLD's is unknown.

F. Raw Water

- | | |
|----------------------------|-----------|
| 1. (006.1), 3/8-3/15/83; | Alpha - |
| 2. (004.1), 4/12-4/19/83; | Suspended |
| 3. (006.1), 7/12-7/19/83; | |
| 4. (012), 11/8-11/15/83 | |
| 5. (006.1), 4/12-4/19/83 | Alpha - |
| 6. (012), 9/13-9/20/83 | Dissolved |
| 7. (006.1), 12/13-12/20/83 | Alpha - |
| | Dissolved |

Low efficiencies due to large quantity of solids in samples made count times necessary to meet LLD unacceptably long.
Low efficiencies due to Large quantity of solids in samples made count times necessary to meet LLD unacceptably long.
Preset count time too short.

G. Surface Water

- | | |
|----------------------------|-----------|
| 1. (000.7), 3/1-4/5/83; | Alpha - |
| 2. (000.3), 5/3/83; | Suspended |
| 3. (013), 5/3/83; | |
| 4. (000.3), 6/7/83; | |
| 5. (000.7), 6/7-7/5/83; | |
| 6. (013), 6/7/83; | |
| 7. (000.3), 7/5/83; | |
| 8. (000.5), 7/5/83; | |
| 9. (005.2), 7/5/83; | |
| 10. (000.7), 7/5-8/2/83; | |
| 11. (000.7), 10/4-11/1/83; | |
| 12. (000.5), 12/6/83; | |
| 13. (000.7), 10/4-11/1/83 | Alpha - |
| | Suspended |
| 14. (005.2), 9/6/83 | Alpha - |
| | Dissolved |
| 15. (000.7), 9/6-10/4/83; | I-131 |
| (005.2), 10/4/83 | |

Low efficiencies due to large quantity of solids in samples made count times necessary to meet LLD unacceptably long.

Preset count time was too short.

Low efficiency due to large quantity of solids in sample made count time necessary to meet LLD unacceptably long.

Large sample backlog caused too much decay time between sample collection

and count dates. Count time necessary to meet I-131 LLD was unacceptably long.

H. Surface Water Composite

1. (000.5), 10/4-12/16/83 Sr-90

Analysis performed by vendor. The reason for not meeting the LLD is unknown.

During 1983, six anomalous reports were submitted to the NRC as required by Technical Specifications. Each report described samples collected from locations at or near the liquid radioactive waste discharge point (locations 000.4 and 000.7) having radioactive activities that exceeded fifty (50) times their associated control activities or samples from all other locations having activities that exceeded ten (10) times their associated control activities.

Bottom sediment samples collected on February 4, 1983 at locations 000.4 and 005.2 showed Cesium-137 that exceeded fifty (50) times and ten (10) times the control activity, respectively. Location 005.2 Cesium-134 and Cobalt-60 activities exceeded ten (10) times the control activities. Bottom sediment samples collected on August 2, 1983 showed Cesium-137 activity at location 000.4 and location 005.2 that exceeded fifty (50) times and ten (10) times the control activity, respectively. The measured concentrations of Cesium-137, Cesium-134, and Cobalt-60 in each of the samples were lower than the expected concentrations calculated from models as per Regulatory Guide 1.109.

Forage species (shad) fish samples collected February 14-16, 1983 at location 013 showed Cesium-134 and Cesium-137 activities in excess of ten (10) times the control activities. Assuming an annual maximum consumption of 21 kg/yr, a whole body dose of 2.75 mrem/year would be received. This dose is an overestimate, as shad are considered to be a negligible source of food fish in this area.

A milk sample collected on January 4, 1983 from location 015 (farms within a 5-mile radius of the station) exceeded ten (10) times the control activity for Strontium-90. Environmental personnel were unable to collect a second milk sample to repeat the analysis because the cow had been sold and no other cows in the area were producing milk. Results of Strontium-90 analyses of continuous air samples from location 009 (1 mile east of the milk location) showed no increase in Strontium-90 activity, measured monthly, over the past two years. Strontium-90 activity in other milk samples, drinking water, well water, surface water and fish samples showed no increase in 1982; therefore, it is concluded that the Strontium-90 activity seen in the milk at location 015 was not station related.

First quarter surface water composites from locations 000.7 and 005.2 exceeded fifty (50) and ten (10) times the tritium control activity respectively. Clemson Water Treatment Plant is the closest source of drinking water downstream of locations 000.7 and 005.2. The tritium concentrations in the raw water collected from the Clemson Plant for the first quarter of 1983 were well

within the ten (10) times control limit for raw water samples. Tritium activities in surface water samples from location 000.7 (liquid radioactive waste discharge point) were plotted for the past five years and no observable trends in tritium activity occurred during this time period.

Analytical results of aquatic vegetation samples collected on August 2, 1983 at location 000.4 showed Cobalt-58, Cobalt-60, Cesium-134 and Cesium-137 activities that exceeded fifty (50) times the control activities and Cesium-137 activity at location 005.2 that exceeded ten (10) times the control activity. The activities measured at these locations are consistent with activities seen at these locations in the past and are near or below the activities expected using bioaccumulation factors presented in the Oconee Nuclear Station Final Environmental Statement.

Trend analyses for 1983 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

OCONEE NUCLEAR STATION
PICKENS COUNTY, SOUTH CAROLINA

DOCKET NUMBER 50-269,-270,-287
JANUARY 1, 1983 - DECEMBER 31, 1983

Table 1

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	206	0.00	1.10E-03(143/ 154)	009	1.16E-03(49/ 51)	1.15E-03(47/ 52)
BETA-T	206	0.01	6.53E-05-- 4.16E-03	4.5 Mi/E	4.54E-04-- 4.16E-03	3.96E-04-- 3.02E-03
MN-54	206	0.00	2.76E-02(154/ 154)	014	2.84E-02(51/ 51)	2.54E-02(52/ 52)
FE-59	206	0.00	1.88E-03-- 7.96E-02	2.0 Mi/SW	1.88E-03-- 6.63E-02	2.04E-03-- 6.17E-02
CO-58	206	0.00	1.93E-04(4/ 154)	009	2.64E-04(1/ 51)	-1.51E-04(0/ 52)
CO-60	206	0.00	4.99E-03-- 8.58E-03	000	4.99E-03-- 4.99E-03	0.00E-01-- 0.00E-01
ZN-65	206	0.00	9.67E-04(4/ 154)	000	1.91E-03(2/ 52)	1.52E-03(4/ 52)
ZR-95	206	0.00	1.46E-02-- 1.84E-02	0.3 Mi/N	1.46E-02-- 1.84E-02	1.24E-02-- 1.95E-02
NB-95	206	0.00	3.34E-04(8/ 154)	000	5.03E-04(1/ 52)	-1.03E-04(2/ 52)
I-131	206	0.00	4.56E-03-- 1.15E-02	014	1.15E-02-- 1.15E-02	3.66E-03-- 1.06E-02
CS-134	206	0.00	1.23E-03(14/ 154)	014	1.35E-03(5/ 51)	1.07E-03(8/ 52)
CS-137	206	0.00	3.82E-03-- 1.25E-02	2.0 Mi/SW	5.48E-03-- 1.15E-02	3.80E-03-- 9.54E-03
BALA-140	206	0.00	-2.37E-03(1/ 154)	009	-1.73E-03(0/ 51)	-3.45E-03(0/ 52)
			1.20E-02-- 1.20E-02		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
			3.96E-04(1/ 154)	009	4.92E-04(1/ 51)	7.60E-04(2/ 52)
			1.05E-02-- 1.05E-02		1.05E-02-- 1.05E-02	9.41E-03-- 1.09E-02
			-3.10E-04(4/ 154)	014	4.50E-04(1/ 51)	-5.21E-04(1/ 52)
			5.19E-03-- 7.53E-03		6.32E-03-- 6.32E-03	6.06E-03-- 6.06E-03
			1.17E-03(9/ 154)	014	1.48E-03(4/ 51)	3.05E-04(0/ 52)
			3.63E-03-- 8.22E-03		3.63E-03-- 8.22E-03	0.00E-01-- 0.00E-01
			-2.89E-04(4/ 154)	014	-1.45E-04(2/ 51)	9.70E-04(5/ 52)
			5.07E-03-- 1.05E-02		6.22E-03-- 9.16E-03	5.51E-03-- 1.19E-02
			2.19E-03(29/ 154)	009	2.53E-03(9/ 51)	2.54E-03(14/ 52)
			4.00E-03-- 1.59E-02		4.20E-03-- 1.59E-02	3.83E-03-- 1.05E-02
			3.46E-04(5/ 154)	009	4.36E-04(2/ 51)	1.77E-04(1/ 52)
			2.35E-03-- 9.10E-03		7.16E-03-- 9.10E-03	7.07E-03-- 7.07E-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

OCONEE NUCLEAR STATION
PICKENS COUNTY, SOUTH CAROLINA

DOCKET NUMBER 50-269,-270,-287
JANUARY 1, 1983 - DECEMBER 31, 1983

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						
COMPOSITE						
PCI/CUBIC MET. 4 LOCATIONS						
	SR-89	48	0.00	< LLD (0/ 36)	< LLD (0/ 12)	
	SR-90	48	0.00	2.30E-04(3/ 36)	2.10E-04(1/ 12)	
			1.60E-04-- 2.80E-04	4.5 Mi/E 2.50E-04-- 2.50E-04	2.10E-04-- 2.10E-04	

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GROUND WATER PCI/L 2 LOCATIONS						
	ALPHA-T	8	0.50	3.42E-01(1/ 4)	015 3.42E-01(1/ 4)	1.00E 01(4/ 4)
				2.0 Mi/SSE 1.16E 00-- 1.16E 00	1.16E 00-- 1.16E 00	1.31E 01-- 2.38E 01
	BETA-T	8	1.00	1.38E 00(4/ 4)	015 1.38E 00(4/ 4)	1.30E 01(4/ 4)
				1.10E 00-- 1.93E 00	1.10E 00-- 1.93E 00	1.09E 01-- 1.72E 01
	SR-89	8	10.00	< LLD (0/ 4)	< LLD	< LLD (0/ 4)
	SR-90	8	2.00	< LLD (0/ 4)	< LLD	< LLD (0/ 4)
	H-3	8	330.00	3.07E 02(3/ 4)	015 3.07E 02(3/ 4)	1.00E 02(1/ 4)
				1.60E 02-- 5.70E 02	1.60E 02-- 5.70E 02	1.00E 02-- 1.00E 02
	MN-54	8	15.00	-4.91E-01(0/ 4)	015 -4.91E-01(0/ 4)	-1.27E 00(0/ 4)
				0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
	FE-59	8	30.00	2.06E 00(0/ 4)	015 2.06E 00(0/ 4)	6.33E-01(0/ 4)
				0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
	CO-58	8	15.00	-9.39E-01(0/ 4)	015 -9.39E-01(0/ 4)	-1.01E 00(0/ 4)
				0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
	CO-60	8	15.00	2.09E-01(0/ 4)	015 2.09E-01(0/ 4)	-9.44E-01(0/ 4)
				0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
	ZN-65	8	30.00	2.91E-01(0/ 4)	015 2.91E-01(0/ 4)	-1.58E 00(0/ 4)
				0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
	ZR-95	8	20.00	1.94E 00(0/ 4)	015 1.94E 00(0/ 4)	-7.73E-01(0/ 4)
				0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
	NB-95	8	10.00	5.64E-01(1/ 4)	015 5.64E-01(1/ 4)	4.91E 00(1/ 4)
				4.58E 00-- 4.58E 00	4.58E 00-- 4.58E 00	1.96E 01-- 1.96E 01
	I-131	8	15.00	1.59E 00(0/ 4)	015 1.59E 00(0/ 4)	1.43E 00(0/ 4)
				0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
	CS-134	8	15.00	-9.21E-01(0/ 4)	015 -9.21E-01(0/ 4)	-4.05E-01(0/ 4)
				0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
	CS-137	8	15.00	1.16E-01(0/ 4)	015 1.16E-01(0/ 4)	-1.64E 00(0/ 4)
				0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
	BALA-140	8	15.00	7.30E-01(0/ 4)	015 7.30E-01(0/ 4)	1.72E 00(0/ 4)
				0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01

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				NAME	MEAN (F) RANGE	MEAN (F) RANGE	000.3 0.6 Mi/NNW	
SURFACE WATER PCI/L 6 LOCATIONS								
	ALPHA-D	71	0.50	1.15E-01(18/ 59)	000.7	1.96E-01(4/ 11)	1.42E-01(7/ 12)	
				1.46E-01-- 1.65E 00	0.9 Mi/ESE	2.08E-01-- 1.65E 00	1.86E-01-- 5.52E-01	
	ALPHA-S	71	0.50	1.24E-01(15/ 59)	013	2.78E-01(5/ 12)	2.99E-01(4/ 12)	
				2.24E-01-- 8.16E-01	7.8 Mi/SSE	2.71E-01-- 5.92E-01	2.30E-01-- 1.45E 00	
	BETA-D	71	1.00	1.70E 00(55/ 59)	000.7	3.15E 00(10/ 11)	1.60E 00(11/ 12)	
				4.52E-01-- 7.38E 00		8.12E-01-- 7.38E 00	6.80E-01-- 5.37E 00	
	BETA-S	71	1.00	5.09E-01(20/ 59)	000.7	1.11E 00(5/ 11)	3.88E-01(2/ 12)	
				4.29E-01-- 4.66E 00		6.04E-01-- 4.66E 00	1.48E 00-- 1.73E 00	
	MN-54	72	15.00	6.13E-02(4/ 60)	000.6	9.97E-01(3/ 12)	4.71E-01(1/ 12)	
				2.61E 00-- 4.21E 00	0.2 Mi/NNE	2.61E 00-- 4.21E 00	5.42E 00-- 5.42E 00	
	FE-59	72	30.00	1.26E 00(3/ 60)	000.7	2.85E 00(1/ 12)	3.38E 00(1/ 12)	
				6.29E 00-- 1.09E 01		6.29E 00-- 6.29E 00	9.22E 00-- 9.22E 00	
	CO-58	72	15.00	-6.26E-02(2/ 60)	000.6	6.99E-01(0/ 12)	-9.57E-01(0/ 12)	
				2.75E 00-- 1.08E 01		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	
	CO-60	72	15.00	1.78E 00(8/ 60)	000.6	3.02E 00(1/ 12)	3.59E-01(1/ 12)	
				2.69E 00-- 3.02E 01		3.02E 01-- 3.02E 01	5.40E 00-- 5.40E 00	
	ZN-65	72	30.00	-8.67E-01(0/ 60)	000.5	9.61E-01(0/ 12)	-1.48E 00(0/ 12)	
				0.00E-01-- 0.00E-01	1.1 Mi/SW	0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	
	ZR-95	72	20.00	7.66E-01(2/ 60)	000.7	1.91E 00(1/ 12)	-9.71E-01(0/ 12)	
				3.59E 00-- 1.19E 01		1.19E 01-- 1.19E 01	0.00E-01-- 0.00E-01	
	NB-95	72	10.00	-3.46E-01(0/ 60)	013	3.91E-01(0/ 12)	-1.10E 00(1/ 12)	
				0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	5.17E 00-- 5.17E 00	
	I-131	72	15.00	8.34E-01(1/ 60)	013	2.48E 00(1/ 12)	-9.70E-01(0/ 12)	
				1.74E 01-- 1.74E 01		1.74E 01-- 1.74E 01	0.00E-01-- 0.00E-01	
	CS-134	72	15.00	5.91E-02(4/ 60)	000.7	5.67E-01(1/ 12)	3.81E-02(0/ 12)	
				4.02E 00-- 8.19E 00		5.98E 00-- 5.98E 00	0.00E-01-- 0.00E-01	
	CS-137	72	15.00	-3.72E-02(3/ 60)	000.6	6.83E-01(0/ 12)	6.91E-02(1/ 12)	
				3.35E 00-- 8.20E 00		0.00E-01-- 0.00E-01	5.11E 00-- 5.11E 00	
	BALA-140	72	15.00	5.88E-01(1/ 60)	000.5	1.30E 00(1/ 12)	6.27E-01(0/ 12)	
				8.49E 00-- 8.49E 00		8.49E 00-- 8.49E 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, 1983 - DECEMBER 31, 1983

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						
COMPOSITE						
PCI/L						
6 LOCATIONS						
SR-89	24	10.00	< LLD (0/ 20)	< LLD	< LLD (0/ 4)	
SR-90	24	2.00	< LLD (0/ 20)	< LLD	< LLD (0/ 4)	
H-3	24	330.00	2.39E 03(18/ 20)	000.7 8.40E 03(4/ 4)	2.38E 03(3/ 4)	2
			1.20E 02-- 1.05E 04	0.9 Mi/ESE 6.50E 03-- 1.05E 04	1.60E 02-- 6.46E 03	

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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, 1983 - DECEMBER 31, 1983

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.
DRINKING WATER PC1/L 3 LOCATIONS						
ALPHA-T	36	0.50	2.17E-01(9/ 24)	006.1 2.82E-01(6/ 12)	1.05E-01(5/ 12)	
BETA-T	36	1.00	2.61E-01-- 1.31E 00	8.5 Mi/SSE 2.61E-01-- 1.31E 00	2.19E-01-- 3.56E-01	
MN-54	36	15.00	1.72E 00(24/ 24)	012 1.85E 00(12/ 12)	1.54E 00(12/ 12)	
FE-59	36	30.00	0.96E-01-- 2.38E 00	19.0 Mi/SSE 1.20E 00-- 2.37E 00	0.19E-01-- 2.43E 00	
CO-58	36	15.00	-1.85E-01(1/ 24)	006.1 5.83E-04(0/ 12)	1.54E-01(2/ 12)	
CO-60	36	15.00	5.77E 00-- 5.77E 00	012 0.00E-01-- 0.00E-01	4.23E-01-- 5.25E 00	
ZN-65	36	30.00	1.73E 00(0/ 24)	012 2.21E 00(0/ 12)	3.67E-01(0/ 12)	
ZR-95	36	20.00	0.00E-01-- 0.00E-01	006.1 0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	
NB-95	36	10.00	-6.55E-01(0/ 24)	006.1 -5.83E-01(0/ 12)	-5.30E-01(0/ 12)	
I-131	36	15.00	0.00E-01-- 0.00E-01	012 0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	
CS-134	36	15.00	4.07E 00(3/ 24)	006.1 6.26E 00(0/ 12)	1.06E 00(1/ 12)	
CS-137	36	15.00	3.08E 00-- 8.27E 00	012 0.00E-01-- 0.00E-01	6.13E 00-- 6.13E 00	
BALA-140	36	15.00	-1.75E 00(0/ 24)	012 -1.41E 00(0/ 12)	-2.45E 00(0/ 12)	
			0.00E-01-- 0.00E-01	006.1 0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	
			1.42E-01(1/ 24)	006.1 6.27E-01(1/ 12)	1.30E-01(0/ 12)	
			7.07E 00-- 7.07E 00	012 7.07E 00-- 7.07E 00	0.00E-01-- 0.00E-01	
			-4.45E-01(0/ 24)	006.1 3.70E-01(0/ 12)	-0.61E-01(0/ 12)	
			0.00E-01-- 0.00E-01	012 0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	
			4.92E-01(2/ 24)	012 8.14E-01(0/ 12)	-2.10E-02(0/ 12)	
			3.92E 00-- 5.88E 00	006.1 0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	
			1.62E 00(0/ 24)	012 2.21E 00(0/ 12)	0.24E-01(0/ 12)	
			0.00E-01-- 0.00E-01	012 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

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, 1983 - DECEMBER 31, 1983

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 004.1 6.0 Mi/SSW	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	I	12	I	10.00	I	< LLD (0/ 8)	I	< LLD	I	< LLD (0/ 4)	I
	I		I		I		I		I		I		
	I	SR-90	I	12	I	2.00	I	< LLD (0/ 8)	I	< LLD	I	< LLD (0/ 4)	I
	I		I		I		I		I		I		
	I	H-3	I	12	I	330.00	I	6.76E 02(8/ 8)	I	006.1 9.37E 02(4/ 4)	I	2.20E 02(3/ 4)	I
	I		I		I		I	3.60E 02-- 1.03E 03	I	8.5 Mi/SSE 7.70E 02-- 1.03E 03	I	1.40E 02-- 3.20E 02	I

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ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

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PICKENS COUNTY, SOUTH CAROLINA

DOCKET NUMBER 50-269,-270,-287
JANUARY 1, 1983 - DECEMBER 31, 1983

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						
PCIAL						
3 LOCATIONS						
ALPHA-D	36	0.50	3.02E-01(7/ 24)	006.1	3.91E-01(3/ 12)	1.06E-01(2/ 12)
			2.76E-01-- 2.95E 00	18.5 Mi/SSE	2.76E-01-- 2.95E 00	3.23E-01-- 7.69E-01
ALPHA-S	36	0.50	1.37E-01(8/ 24)	006.1	2.03E-01(5/ 12)	-1.26E-03(3/ 12)
			1.99E-01-- 8.67E-01		1.99E-01-- 8.67E-01	3.73E-01-- 5.30E-01
BETA-D	36	1.00	1.98E 00(24/ 24)	012	2.15E 00(12/ 12)	1.41E 00(12/ 12)
			1.44E 00-- 5.72E 00	19.0 Mi/SSE	1.44E 00-- 5.72E 00	1.00E 00-- 1.73E 00
BETA-S	36	1.00	2.94E-01(9/ 24)	012	3.50E-01(5/ 12)	1.61E-01(2/ 12)
			4.23E-01-- 7.33E-01		4.23E-01-- 7.33E-01	5.35E-01-- 8.29E-01
I-131/L	36	1.50	-8.33E-02(0/ 24)	006.1	-7.70E-02(0/ 12)	-3.05E-02(0/ 12)
			0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
MN-54	36	15.00	1.84E-01(0/ 24)	006.1	2.07E-01(0/ 12)	7.12E-01(0/ 12)
			0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
FE-59	36	30.00	1.46E 00(1/ 24)	006.1	1.66E 00(0/ 12)	2.75E 00(1/ 12)
			1.59E 01-- 1.59E 01		0.00E-01-- 0.00E-01	9.80E 00-- 9.80E 00
CO-58	36	15.00	6.38E-02(0/ 24)	006.1	3.64E-01(0/ 12)	-5.53E-01(0/ 12)
			0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
CO-60	36	15.00	4.33E-01(0/ 24)	012	6.86E-01(0/ 12)	4.68E-01(1/ 12)
			0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	4.61E 00-- 4.61E 00
ZN-65	36	30.00	-1.21E 00(0/ 24)	012	-6.40E-01(0/ 12)	-2.71E 00(0/ 12)
			0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
ZR-95	36	20.00	5.10E-01(1/ 24)	012	2.42E 00(1/ 12)	-2.21E-01(0/ 12)
			1.23E 01-- 1.23E 01		1.23E 01-- 1.23E 01	0.00E-01-- 0.00E-01
NB-95	36	10.00	-3.28E-01(1/ 24)	006.1	1.80E-01(1/ 12)	-1.04E 00(0/ 12)
			7.82E 00-- 7.82E 00		7.82E 00-- 7.82E 00	0.00E-01-- 0.00E-01
I-131	36	15.00	1.07E 00(1/ 24)	006.1	1.79E 00(1/ 12)	7.16E-01(0/ 12)
			1.66E 01-- 1.66E 01		1.66E 01-- 1.66E 01	0.00E-01-- 0.00E-01
CS-134	36	15.00	2.42E-02(0/ 24)	012	1.71E-01(0/ 12)	-9.34E-01(0/ 12)
			0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
CS-137	36	15.00	6.64E-01(1/ 24)	012	1.99E 00(1/ 12)	1.55E 00(1/ 12)
			7.00E 00-- 7.00E 00		7.00E 00-- 7.00E 00	7.00E 00-- 7.00E 00
BALA-140	36	15.00	1.43E-01(0/ 24)	006.1	4.12E-01(0/ 12)	-6.53E-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

OCONEE NUCLEAR STATION
PICKENS COUNTY, SOUTH CAROLINA

DOCKET NUMBER 50-269,-270,-287
JANUARY 1, 1983 - DECEMBER 31, 1983

MEDIUM SAMPLED UNITS	TYPE & TOTAL NO. OF ANALYSES PERFORMED	(LLD)	ALL INDICATOR LOCATIONS MEANS (F) RANGE	LOCATION W/ HIGHEST ANN. MEAN		CONTROL LOCATIONS MEAN (F) RANGE 004.1 6.1 Mi/SSW	NO. OF NON- ROUTINE REPORT MEAS.
				NAME	MEAN (F) RANGE		
RAW WATER							
COMPOSITE							
PCI/L							
3 LOCATIONS							
	SR-89	12	10.00	< LLD (0/ 8)	< LLD	< LLD (0/ 4)	
	SR-90	12	2.00	< LLD (0/ 8)	< LLD	< LLD (0/ 4)	
	H-3	12	330.00	4.30E 02(7/ 8)	006.1 6.00E 02(4/ 4)	1.67E 02(3/ 4)	
			1.30E 02-- 7.70E 02	8.5 Mi/SSE	3.30E 02-- 7.70E 02	1.30E 02-- 2.00E 02	

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OCONEE NUCLEAR STATION
PICKENS COUNTY, SOUTH CAROLINA

DOCKET NUMBER 50-269, -270, -287
JANUARY 1, 1983 - DECEMBER 31, 1983

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	20	10.00	< LLD	(0/ 16)	< LLD		< LLD	(0/ 4)	
	SR-90	20	2.00	5.57E 00	(16/ 16)	015	1.15E 01	(4/ 4)	3.28E 00	(4/ 4)
	H-3	20	330.00	5.60E-01--	3.50E 01	2.0 Mi/SSE	3.50E 00--	3.50E 01	2.80E 00--	3.50E 00
	I-131/LL	59	0.50	3.47E 02	(15/ 16)	002.1	3.59E 02	(12/ 12)	5.23E 02	(4/ 4)
	K-40	20	200.00	1.00E 02--	1.03E 03	4.5 Mi/W	1.00E 02--	1.03E 03	2.40E 02--	1.13E 03
	MN-54	20	0.00	-8.27E-03	(2/ 55)	002.1	2.76E-03	(2/ 51)	-8.21E-02	(0/ 4)
	FE-59	20	0.00	2.03E-01--	2.06E-01		2.03E-01--	2.06E-01	0.00E-01--	0.00E-01
	CO-58	20	0.00	1.36E 03	(16/ 16)	002.1	1.39E 03	(12/ 12)	1.21E 03	(4/ 4)
	CO-60	20	0.00	1.07E 03--	1.71E 03		1.13E 03--	1.71E 03	9.55E 02--	1.42E 03
	ZN-65	20	0.00	7.50E-01	(1/ 16)	002.1	1.02E 00	(1/ 12)	-4.61E-01	(0/ 4)
	ZR-95	20	0.00	4.64E 00--	4.64E 00		4.64E 00--	4.64E 00	0.00E-01--	0.00E-01
	NB-95	20	0.00	1.52E 00	(0/ 16)	015	3.75E 00	(0/ 4)	-1.97E 00	(0/ 4)
	I-131	20	15.00	0.00E-01--	0.00E-01		0.00E-01--	0.00E-01	0.00E-01--	0.00E-01
	CS-134	20	15.00	1.67E 00	(1/ 16)	015	1.95E 00	(0/ 4)	-3.66E-01	(0/ 4)
	CS-137	20	15.00	1.12E 01--	1.12E 01		0.00E-01--	0.00E-01	0.00E-01--	0.00E-01
	BALA-140	20	15.00	4.93E-01	(0/ 16)	015	1.41E 00	(0/ 4)	2.39E 00	(1/ 4)
				0.00E-01--	0.00E-01		0.00E-01--	0.00E-01	8.22E 00--	8.22E 00
				-1.99E 00	(0/ 16)	015	-6.81E-01	(0/ 4)	-3.76E 00	(0/ 4)
				0.00E-01--	0.00E-01		0.00E-01--	0.00E-01	0.00E-01--	0.00E-01
				1.43E 00	(1/ 16)	002.1	1.90E 00	(1/ 12)	-1.93E 00	(0/ 4)
				1.59E 01--	1.59E 01		1.59E 01--	1.59E 01	0.00E-01--	0.00E-01
				-1.04E 00	(0/ 16)	015	-9.08E-01	(0/ 4)	-3.16E 00	(0/ 4)
				0.00E-01--	0.00E-01		0.00E-01--	0.00E-01	0.00E-01--	0.00E-01
				9.39E-01	(0/ 16)	015	2.20E 00	(0/ 4)	1.28E-01	(0/ 4)
				0.00E-01--	0.00E-01		0.00E-01--	0.00E-01	0.00E-01--	0.00E-01
				-5.66E-01	(0/ 16)	015	2.19E 00	(0/ 4)	-1.64E 00	(0/ 4)
				0.00E-01--	0.00E-01		0.00E-01--	0.00E-01	0.00E-01--	0.00E-01
				3.68E 00	(4/ 16)	015	5.04E 00	(2/ 4)	-4.27E-01	(0/ 4)
				6.13E 00--	1.01E 01		6.13E 00--	1.01E 01	0.00E-01--	0.00E-01
				2.86E-01	(0/ 16)	002.1	6.03E-01	(0/ 12)	-8.22E-01	(0/ 4)
				0.00E-01--	0.00E-01		0.00E-01--	0.00E-01	0.00E-01--	0.00E-01

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OCONEE NUCLEAR STATION
PICKENS COUNTY, SOUTH CAROLINA

DOCKET NUMBER 50-269,-270,-287
JANUARY 1, 1983 - DECEMBER 31, 1983

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.
BROAD-LEAF VEGETATION PCI/KG (WET) 4 LOCATIONS						
K-40	16	400.00	5.65E 03(12/ 12)	0.000	5.91E 03(4/ 4)	5.28E 03(4/ 4)
MN-54	16	0.00	3.07E 03-- 7.90E 03	10.3 Mi/N	4.43E 03-- 6.99E 03	4.29E 03-- 5.89E 03
FE-59	16	0.00	3.77E 00(0/ 12)	0.000	8.36E 00(0/ 4)	-6.34E 00(0/ 4)
			0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
CO-58	16	0.00	1.72E 01(0/ 12)	0.015	3.94E 01(0/ 4)	-8.39E 00(0/ 4)
			0.00E-01-- 0.00E-01	12.0 Mi/SSE	0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
CO-60	16	0.00	4.05E-01(2/ 12)	0.002.1	4.91E 00(1/ 4)	-1.79E 00(0/ 4)
			3.04E 01-- 4.64E 01	14.5 Mi/W	4.64E 01-- 4.64E 01	0.00E-01-- 0.00E-01
ZN-65	16	0.00	-4.79E 00(0/ 12)	0.002.1	-1.45E-01(0/ 4)	1.19E-01(0/ 4)
			0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
ZR-95	16	0.00	-1.68E 01(0/ 12)	0.000	-1.10E 01(0/ 4)	-3.58E 00(0/ 4)
			0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
NB-95	16	0.00	-4.60E 00(0/ 12)	0.015	5.54E 00(0/ 4)	-7.78E 00(0/ 4)
			0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
I-131	16	80.00	-4.14E 00(1/ 12)	0.002.1	8.00E 00(1/ 4)	-6.40E 00(0/ 4)
			3.60E 01-- 3.60E 01		3.60E 01-- 3.60E 01	0.00E-01-- 0.00E-01
CS-134	16	100.00	2.21E 00(0/ 12)	0.000	5.47E 00(0/ 4)	5.33E 00(0/ 4)
			0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
CS-137	16	100.00	6.87E 00(1/ 12)	0.002.1	1.23E 01(0/ 4)	-1.14E 01(0/ 4)
			4.16E 01-- 4.16E 01		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
			3.04E 00(0/ 12)	0.015	7.44E 00(0/ 4)	5.35E-01(1/ 4)
			0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	2.32E 01-- 2.32E 01
BALA-140	16	0.00	3.60E 00(0/ 12)	0.015	5.30E 00(0/ 4)	8.52E 00(0/ 4)
			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

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

OCONEE NUCLEAR STATION
PICKENS COUNTY, SOUTH CAROLINA

DOCKET NUMBER 50-269,-270,-287
JANUARY 1, 1983 - DECEMBER 31, 1983

MEDIUM SAMPLED UNITS	I I I I	TYPE & TOTAL IND. 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 000.5 1.0 Mi/NNE	I I I I	NO. OF NON- ROUTINE REPORT MEAS.
AQUATIC	I		I		I		I		I		I	
VEGETATION	I		I		I		I		I		I	
PCI/KG (WET)	I		I		I		I		I		I	
3 LOCATIONS	I		I		I		I		I		I	
SR-89	I	6	I	40.00	I	< LLD (0/ 4)	I	< LLD	I	< LLD (0/ 2)	I	
SR-90	I	6	I	8.00	I	1.10E 01(4/ 4)	I	005.2	I	2.10E 01(2/ 2)	I	
K-40	I	6	I	400.00	I	3.20E-02-- 4.20E 01	I	4.5 Mi/SSE	I	3.20E-02-- 4.20E 01	I	
2.66E 03(4/ 4)	I		I		I		I	005.2	I	2.82E 03(2/ 2)	I	
1.90E 03-- 3.11E 03	I		I		I		I		I	2.57E 03-- 3.06E 03	I	
2.00E 02(2/ 4)	I		I		I		I	000.4	I	3.90E 02(2/ 2)	I	
2.46E 01-- 7.55E 02	I		I		I		I	0.7 Mi/ENE	I	2.46E 01-- 7.55E 02	I	
4.95E 01(1/ 4)	I		I		I		I	000.4	I	1.14E 02(1/ 2)	I	
2.09E 02-- 2.09E 02	I		I		I		I		I	2.09E 02-- 2.09E 02	I	
1.02E 04(3/ 4)	I		I		I		I	000.4	I	2.03E 04(2/ 2)	I	
4.20E 01-- 4.05E 04	I		I		I		I		I	4.20E 01-- 4.05E 04	I	
7.22E 02(3/ 4)	I		I		I		I	000.4	I	1.40E 03(2/ 2)	I	
7.75E 01-- 2.67E 03	I		I		I		I		I	1.33E 02-- 2.67E 03	I	
-9.30E 00(0/ 4)	I		I		I		I	000.4	I	-7.98E 00(0/ 2)	I	
0.00E-01-- 0.00E-01	I		I		I		I		I	0.00E-01-- 0.00E-01	I	
3.37E-01(0/ 4)	I		I		I		I	000.4	I	1.88E 01(0/ 2)	I	
0.00E-01-- 0.00E-01	I		I		I		I		I	0.00E-01-- 0.00E-01	I	
1.27E 02(1/ 4)	I		I		I		I	000.4	I	2.75E 02(1/ 2)	I	
5.71E 02-- 5.71E 02	I		I		I		I		I	5.71E 02-- 5.71E 02	I	
1.30E 01(0/ 4)	I		I		I		I	000.4	I	1.90E 01(0/ 2)	I	
0.00E-01-- 0.00E-01	I		I		I		I		I	0.00E-01-- 0.00E-01	I	
4.97E 02(3/ 4)	I		I		I		I	000.4	I	9.44E 02(2/ 2)	I	
5.22E 01-- 1.84E 03	I		I		I		I		I	5.22E 01-- 1.84E 03	I	
1.15E 03(3/ 4)	I		I		I		I	000.4	I	8.09E 03(2/ 2)	I	
1.92E 02-- 3.99E 03	I		I		I		I		I	1.92E 02-- 3.99E 03	I	
8.24E 00(0/ 4)	I		I		I		I	005.2	I	8.43E 00(0/ 2)	I	
0.00E-01-- 0.00E-01	I		I		I		I		I	0.00E-01-- 0.00E-01	I	
	I		I		I		I		I	4.81E 01-- 4.81E 01	I	

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

DCONEE NUCLEAR STATION
PICKENS COUNTY, SOUTH CAROLINA

DOCKET NUMBER 50-269,-270,-287
JANUARY 1, 1983 - DECEMBER 31, 1983

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	6.84E 01(47/ 60)	10.00	7.78E 01(10/ 12)	6.06E 01(8/ 11)	
BETA-T	71	0.00	3.96E-01-- 1.96E 02	10.3 Mi/N	1.88E 01-- 1.86E 02	2.32E 01-- 1.20E 02	
MN-54	71	0.00	5.03E 02(60/ 60)	10.5 Mi/S	5.71E 02(12/ 12)	3.74E 02(11/ 11)	
FE-59	71	0.00	1.12E 00-- 1.43E 03	10.00.1	2.52E 00-- 1.01E 03	5.12E 00-- 8.33E 02	
CO-58	71	0.00	4.45E 01(1/ 60)	10.00.1	1.05E 02(1/ 12)	-7.07E 01(0/ 11)	
CO-60	71	0.00	5.06E 02-- 5.06E 02	10.00	5.06E 02-- 5.06E 02	0.00E-01-- 0.00E-01	
ZN-65	71	0.00	6.38E 00(0/ 60)	10.00	4.18E 01(0/ 12)	1.25E 03(0/ 11)	
ZR-95	71	0.00	0.00E-01-- 0.00E-01	10.00	0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	
NB-95	71	0.00	-2.67E 01(1/ 60)	10.10	1.43E 01(0/ 12)	-1.74E 02(0/ 11)	
I-131	71	0.00	3.92E 02-- 3.92E 02	12.0 Mi/ENE	0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	
CS-134	71	0.00	2.26E 02(8/ 60)	10.00.2	4.28E 02(4/ 12)	1.92E 02(1/ 11)	
CS-137	71	0.00	6.15E 02-- 3.31E 03	10.7 Mi/SSW	6.50E 02-- 1.24E 03	3.49E 02-- 3.49E 02	
BALA-140	71	0.00	-7.59E 01(0/ 60)	10.02	3.93E 01(0/ 12)	-2.12E 02(0/ 11)	
			0.00E-01-- 0.00E-01	10.0 Mi/WSW	0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	
			-3.87E 01(2/ 60)	10.00	4.41E 01(0/ 12)	3.85E 02(0/ 11)	
			1.20E 03-- 1.20E 03		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	
			-3.10E 01(1/ 60)	10.10	1.88E 02(1/ 12)	1.90E 03(0/ 11)	
			7.91E 02-- 7.91E 02		7.91E 02-- 7.91E 02	0.00E-01-- 0.00E-01	
			3.25E 02(3/ 60)	10.10	8.57E 02(2/ 12)	1.50E 09(0/ 11)	
			1.25E 03-- 2.28E 03		1.67E 03-- 2.28E 03	0.00E-01-- 0.00E-01	
			2.55E 01(3/ 60)	10.10	1.62E 02(1/ 12)	1.50E 01(1/ 11)	
			3.60E 02-- 9.73E 02		9.73E 02-- 9.73E 02	2.00E 02-- 2.00E 02	
			4.17E 01(1/ 60)	10.00.2	9.75E 01(1/ 12)	1.88E 01(0/ 11)	
			1.20E 03-- 1.20E 03		1.20E 03-- 1.20E 03	0.00E-01-- 0.00E-01	
			-1.28E 01(1/ 60)	10.00.1	1.42E 02(0/ 12)	1.41E 06(0/ 11)	
			1.88E 03-- 1.88E 03		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

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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, 1983 - DECEMBER 31, 1983

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 PC1/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	-1.28E 00(0/ 10)	005.2	-1.96E 00(0/ 2)	
FE-59	12	0.00	-1.40E 01(0/ 10)	005.2	-2.37E 01(0/ 2)	
CO-58	12	0.00	1.54E 02(3/ 10)	000.4	4.29E 00(0/ 2)	
CO-60	12	0.00	1.19E 02(4/ 10)	005.2	-2.81E 00(0/ 2)	1
ZN-65	12	0.00	-2.75E 00(0/ 10)	006.2	3.00E 01(0/ 2)	
ZR-95	12	0.00	8.09E 00(0/ 10)	000.7	1.06E 01(0/ 2)	
NB-95	12	0.00	1.37E 01(1/ 10)	006.2	1.34E 01(0/ 2)	
I-131	12	0.00	1.20E 02(0/ 10)	005.2	1.23E 01(0/ 2)	
CS-134	12	150.00	3.50E 02(7/ 10)	000.4	4.01E 01(1/ 2)	1
CS-137	12	150.00	1.51E 03(7/ 10)	000.4	4.43E 01(1/ 2)	3
BALA-140	12	0.00	3.82E 01(0/ 10)	005.2	-1.40E 01(0/ 2)	
			0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	

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

111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100 1101 1102 1103 1104 1105 1106

DOCKET NUMBER 50-269,-270,-287
JANUARY 1, 1983 - DECEMBER 31, 1983

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						
PCI/KG (WET) 2 LOCATIONS						
SR-89	11	40.00	< LLD (0/ 6)	< LLD	< LLD (0/ 5)	
SR-90	11	8.00	2.81E 02(6/ 6)	013 2.81E 02(6/ 6)	2.90E 02(5/ 5)	
K-40	11	1200.00	6.80E 01-- 5.90E 02	17.8 Mi/SSE 6.80E 01-- 5.90E 02	7.20E 01-- 6.00E 02	
			2.19E 03(6/ 6)	013 2.19E 03(6/ 6)	1.93E 03(4/ 5)	
			1.57E 03-- 3.04E 03	1.57E 03-- 3.04E 03	1.73E 03-- 2.85E 03	
MN-54	11	130.00	-6.51E 00(0/ 6)	013 -6.51E 00(0/ 6)	1.34E 01(0/ 5)	
			0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	
FE-59	11	260.00	7.85E-01(0/ 6)	013 7.85E-01(0/ 6)	2.85E 01(1/ 5)	
			0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	1.24E 02-- 1.24E 02	
CO-58	11	130.00	3.35E 01(1/ 6)	013 3.35E 01(1/ 6)	5.71E 00(0/ 5)	
			1.45E 02-- 1.45E 02	1.45E 02-- 1.45E 02	0.00E-01-- 0.00E-01	
CO-60	11	130.00	4.53E 00(0/ 6)	013 4.53E 00(0/ 6)	-6.76E-01(0/ 5)	
			0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	
ZN-65	11	260.00	-3.18E-01(0/ 6)	013 -3.18E-01(0/ 6)	-4.53E 00(0/ 5)	
			0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	
ZR-95	11	0.00	7.03E 00(0/ 6)	013 7.03E 00(0/ 6)	1.36E 01(0/ 5)	
			0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	
NB-95	11	0.00	-7.07E 00(0/ 6)	013 -7.07E 00(0/ 6)	3.80E 00(0/ 5)	
			0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	
I-131	11	0.00	1.49E 02(0/ 6)	013 1.49E 02(0/ 6)	-3.27E 02(0/ 5)	
			0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01	
CS-134	11	130.00	1.24E 02(6/ 6)	013 1.24E 02(6/ 6)	-1.53E-01(0/ 5)	
			2.13E 01-- 3.69E 02	2.13E 01-- 3.69E 02	0.00E-01-- 0.00E-01	
CS-137	11	130.00	3.32E 02(6/ 6)	013 3.32E 02(6/ 6)	3.21E 01(3/ 5)	
			1.31E 02-- 7.54E 02	1.31E 02-- 7.54E 02	4.12E 01-- 6.78E 01	
BALA-140	11	0.00	5.73E 01(1/ 6)	013 5.73E 01(1/ 6)	8.90E 01(0/ 5)	
			1.56E 02-- 1.56E 02	1.56E 02-- 1.56E 02	0.00E-01-- 0.00E-01	

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

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

OCONEE N NUCLEAR STATION
PICKENS COUNTY, SOUTH CAROLINA

DOCKET NUMBER 50-269,-270,-287
JANUARY 1, 1983 - DECEMBER 31, 1983

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	NO. OF NON- ROUTINE REPORT MEAS.
9.5 Mi/SSE						
COMMERCIAL CROPS PCI/KG (WET) 2 LOCATIONS						
K-40	3	400.00	1.66E 03(2/ 2)	015	1.66E 03(2/ 2)	2.29E 03(1/ 1)
MN-54	3	0.00	1.22E 03-- 2.10E 03 3.64E 00(0/ 2)	2.0 Mi/SSE 015	1.22E 03-- 2.10E 03 3.64E 00(0/ 2)	2.29E 03-- 2.29E 03 3.17E 00(0/ 1)
FE-59	3	0.00	0.00E-01-- 0.00E-01 1.23E 01(0/ 2)	015	0.00E-01-- 0.00E-01 1.23E 01(0/ 2)	0.00E-01-- 0.00E-01 -9.10E 00(0/ 1)
CO-58	3	0.00	0.00E-01-- 0.00E-01 -2.22E 00(0/ 2)	015	0.00E-01-- 0.00E-01 -2.22E 00(0/ 2)	0.00E-01-- 0.00E-01 1.97E 00(0/ 1)
CO-60	3	0.00	0.00E-01(0/ 2)	015	0.00E-01(0/ 2)	-9.04E-01(0/ 1)
ZN-65	3	0.00	0.00E-01-- 0.00E-01 -4.57E 00(0/ 2)	015	0.00E-01-- 0.00E-01 -4.57E 00(0/ 2)	0.00E-01-- 0.00E-01 3.16E 00(0/ 1)
ZR-95	3	0.00	0.00E-01-- 0.00E-01 1.55E 01(0/ 2)	015	0.00E-01-- 0.00E-01 1.55E 01(0/ 2)	0.00E-01-- 0.00E-01 -2.24E 00(0/ 1)
NB-95	3	0.00	0.00E-01-- 0.00E-01 4.43E 00(0/ 2)	015	0.00E-01-- 0.00E-01 4.43E 00(0/ 2)	0.00E-01-- 0.00E-01 -4.64E 00(0/ 1)
I-131	3	80.00	0.00E-01-- 0.00E-01 1.41E 01(0/ 2)	015	0.00E-01-- 0.00E-01 1.41E 01(0/ 2)	0.00E-01-- 0.00E-01 9.48E 00(0/ 1)
CS-134	3	100.00	0.00E-01-- 0.00E-01 3.51E 00(0/ 2)	015	0.00E-01-- 0.00E-01 3.51E 00(0/ 2)	0.00E-01-- 0.00E-01 2.11E 00(0/ 1)
CS-137	3	100.00	0.00E-01-- 0.00E-01 3.66E 00(1/ 2)	015	0.00E-01-- 0.00E-01 3.66E 00(1/ 2)	0.00E-01-- 0.00E-01 0.00E-01(0/ 1)
BALA-140	3	0.00	1.77E 01-- 1.77E 01 3.89E 00(0/ 2)	015	1.77E 01-- 1.77E 01 3.89E 00(0/ 2)	0.00E-01-- 0.00E-01 0.00E-01(0/ 1)
			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

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, 1983 - DECEMBER 31, 1983

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 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	99	I	0.00	I	1.88E-02(92/ 96)	I	000.17	6.03E-02(4/ 4)	I	1.80E-02(3/ 3)	I
	I			I		I	1.00E-03-- 7.50E-02	I	Site Fence/W	4.60E-02-- 7.50E-02	I	1.60E-02-- 2.10E-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 10, 1983</u>		<u>January 3, 1984</u>	
		<u>Cows</u>	<u>Goats</u>	<u>Cows</u>	<u>Goats</u>
I.C. Few	4.0 mi/ENE	1*	0	0	0
J. Crain	3.0 mi/NNE	0	1*	0	2*
L. Sammie	2.8 mi/ESE	2	0	2	0
S. Smith	3.5 mi/N	-	-	0	1*
W. Powell	4.5 mi/W	80	0	90	0
T. Miller	3.5 mi/E	2*	0	2	0

*Not milking

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

HAL B. TUCKER
VICE PRESIDENT
NUCLEAR PRODUCTION

April 30, 1984

TELEPHONE
(704) 373-4531

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

Re: Oconee Nuclear Station
Docket Nos. 50-269, -270, -287 *LH*

Dear Mr. O'Reilly:

Pursuant to Oconee Nuclear Station Technical Specification 6.6.1.5, please find attached the Oconee Nuclear Station 1983 Annual Environmental Radiological Monitoring Report.

Very truly yours,

H.B. Tucker / JBT
Hal B. Tucker

JCP/php

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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