December 31, 1997

To: Manual Holders

Subject: Oconee SLC Revision

Please revise your SLC Manual according to instructions. This SLC revision deletes references to NRC approval of Interlaboratory Comparison Program.

Please update your copy of this manual as follows:

Remove These Pages	Insert These Pages:
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SLC 16.11-30	SLC 16.11-30
SLC 16.11-31	SLC 16.11-31
SLC 16.11-32	SLC 16.11-32
SLC 16.11-33	SLC 16.11-33

Any questions concerning this revision may be directed to Michael E. Bailey at 864-885-4390.

Regulatory Compliance

By: Conice Breazeale
Regulatory Compliance

Oconee Nuclear Station
Selected Licensee Commitments
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or by consulting local agriculture authorities. The results of the land use census shall be included in the Annual Radiological Environmental Operating Report.

3. Interlaboratory Comparison Program

   a. Analyses shall be performed on radioactive materials supplied as part of an Interlaboratory Comparison Program which has been approved by the NRC.

   b. If these analyses are not performed as required, report corrective actions in the Annual Radiological Environmental Operating Report.

   c. A summary of the results obtained as part of the above required Interlaboratory Comparison Program and in accordance with the methodology and parameters in the ODCM shall be included in the Annual Radiological Environmental Operating Report.

APPLICABILITY:

Applies to the surveillance of the station environ for radiation and radioactive materials attributable to station operation and effluent control.

REFERENCES:

1. 10 CFR Part 50, Appendix I

2. Offsite Dose Calculation Manual

BASES:

The environmental monitoring program required by this commitment provides measurements of radiation and of radioactive materials in those exposure pathways and for those radionuclides which lead to the highest potential radiation exposures of individuals resulting from the station operation. This monitoring program thereby supplements the radiological effluent monitoring program by verifying that the measurable concentrations of radioactive materials and levels of radiation are not higher than expected on the basis of the effluent measurements and modeling of program will be effective for at least the first three years of commercial operation. Following this period, program changes may be initiated based on operational experience.

The detection capabilities required by Table 16.11-6 are considered optimum for routine environmental measurements in industrial laboratories. The specified lower limits of detection correspond to less than the 10CFR50, Appendix I, design objective dose-equivalent to 45 mrem/year for atmospheric releases to the most sensitive organ and individual.

The land use census commitment is provided to assure that changes in the use of unrestricted areas are identified and that modifications to the monitoring program are provided if required by the results of this census.

The requirements for participation in an Interlaboratory Comparison Program is provided to assure that independent checks on the precision and accuracy of the measurements of radioactive material in environmental sample matrices are performed as part of a quality assurance program for environmental monitoring in order to demonstrate that the results are reasonably valid.

STATION MANAGER APPROVAL H B Barron DATE 10/21/93

H. B. Barron

TABLE 16.11-5 (Page 1 of 2)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

EXPOSURE PATHWAY AND/OR SAMPLE	NUMBER OF SAMPLE LOCATIONS**	SAMPLING AND COLLECTION FREQUENCY	TYPE AND FREQUENCY OF ANALYSIS***
1. AIRBORNE			
a. Radioiodine and Particulates	5 Locations	Continuous operation of sampler with sample collection as required by dust loading but at least once per 7 days.	Radioiodine canister. Gamma isotopic analysis for I-131 on each sample. Particulate sampler. Gamma isotopic analysis on each sample.
2. DIRECTION RADIATION	40 Locations	Continuous integration with collection at least once per 92 days.	Gamma dose on each dosimeter.
3. WATERBORNE			
a. Surface	2 Locations	Composite* sample collected over a period of $\leq$ 31 days.	Gamma isotopic analysis of each composite sample by location. Tritium analyses of composite sample at least once per 92 days.
b. Drinking	3 Locations	Composite* sample collected over a period of < 31 days.	Gross beta and gamma isotopic analysis of each composite sample. Tritium analysis of composite sample at least once per 92 days.

*Composite samples shall be collected by collecting an aliquot at intervals not exceeding 2 hours.
**Sample locations are identified in the ODCM.
***Frequency of analysis stated only if different from collection frequency.

TABLE 16.11-5 (Page 2 of 2)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

EXPOSURE PATHWAY AND/OR SAMPLE	NUMBER OF SAMPLE LOCATIONS**	SAMPLING AND COLLECTION FREQUENCY	TYPE AND FREQUENCY OF ANALYSIS***
c. Sediment from Shoreline	2 Locations	At least once per 184 days.	Gamma isotopic analysis of each sample.
4. INGESTION			
a. Milk	3 Locations	At least once per 15 days when animals are on pasture; at least once per 31 days at other times.	Gamma isotopic and I-131 analysis of each sample.
b. Fish	2 Locations	At least once per 184 days. One sample of each of the following species: 1. Bass 2. Catfish	Gamma isotopic analysis on edible portion.
c. Broad-leaf Vegetation	2 Locations	At least once per 31 days.	Gamma isotopic analysis.

*Composite samples shall be collected by collecting an aliquot at intervals not exceeding 2 hours.
**Sample locations are identified in the ODCM.
***Frequency of analysis stated only if different from collection frequency.

TABLE 16.11-6 (Page 1 of 3)

MAXIMUM VALUES FOR THE LOWER LIMITS OF DETECTION (LLD)[a,c]

ANALYSIS	WATER (pCi/ℓ)	AIRBORNE PARTICULATE OR GASES (pCi/m³)	FISH (pCi/kg, wet)	MILK (pCi/ℓ)	BROADLEAF VEGETATION (pCi/kg, wet)	SEDIMENT (pCi/kg, dry)
Gross Beta	4					
H_3	2000					
Mn-54	15		130			
Fe-59	30		260			
Co-58, 60	15		130			
Zn-65	30		260			
Zr-95	30					
Nb-95	15					
I-131	15[b]	7×10^{-2}		1	60	
Cs-134, 137	15,18	$5,6 \times 10^{-2}$	130,150	15,18	60,80	150,180
Ba-140	60			60		
La-140	15			15		