

Table 3.5.5-1
LIQUID EFFLUENT MONITORING INSTRUMENTATION
OPERATING CONDITIONS

INSTRUMENT	A MINIMUM OPERABLE CHANNELS	APPLICABILITY	B OPERATOR ACTION IF MINIMUM NUMBER OF OPERABLE CHANNELS IS NOT MET
1. Monitors Providing Automatic Termination of Release			
Liquid Radwaste Effluent Line Monitors			
1 RIA-33***	1	*	(a)
4 RIA-33#	1	*	(a)
4 RIA-33a	1	*	(a)
Turbine Building Sump			
1 RIA-54 (Units 1 & 2)	1	*	(b)
3 RIA-54 (Unit 3)	1	*	(b)
2. Monitors not Providing Automatic Termination of Release			
Low Pressure Service Water			
1 RIA-35	1	*	(d)
2 RIA-35	1	*	(d)
3 RIA-35	1	*	(d)
3. Flow Rate Measuring Devices			
Liquid Radwaste Effluent Line	1	*	(c)
Keowee Hydroelectric Station Tailrace Discharge **	NA	NA	NA
4. Continuous Composite Sampler			
#3 Chemical Treatment Pond Composite Sampler and Sampler Flow Monitor			
	1	*	(d)

*At all times.

**Flow determined from number of hydro units operating; if hydro is not operating, leakage flow, which is measured periodically, is used.

***To be removed from service following operability of 4 RIA-33.

Effective upon installation of equipment.

TABLE 4.1-4

RADIOACTIVE EFFLUENT MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS

<u>INSTRUMENT</u>	<u>CHANNEL RESPONSE CHECK(4)</u>	<u>SOURCE CHECK</u>	<u>CHANNEL CALIBRATION</u>	<u>CHANNEL FUNCTIONAL TEST</u>
1. Liquid Radwaste Effluent Line				
A. 1 RIA-33				
a. Effluent Line Monitor	*	DA	AN	QU(1)
b. Effluent Flow Rate Monitor	*	NA	AN	NA
c. Minimum Flow Device	*	NA	AN	NA
B. 4 RIA-33				
a. Effluent Line Monitor	*	DA	AN	QU(1)
b. Effluent Flow Rate Monitor	*	NA	AN	NA
c. Minimum Flow Device	*	NA	AN	NA
C. 4 RIA-33a				
a. Effluent Line Monitor	*	DA	AN	QU(1)
b. Minimum Flow Device	*	NA	AN	NA
2. Turbine Building Sump	*	NA	AN	NA
a. Sump Monitor (RIA-54)	DA	MO	AN(3)	QU(2)
b. Minimum Flow Device	*	AN	AN	NA
3. Low Pressure Service Water				
a. Effluent Line Monitor (RIA-35)	DA	MO	AN(3)	QU(1)
b. Minimum Flow Device	*	NA	AN	NA
4. #3 Chemical Treatment Pond Composite Sampler	DA	NA	AN	NA
5. Waste Gas Holdup System				
a. Noble Gas Activity Monitor - Providing Alarm and Automatic Termination of Release (RIA-37, -38)	*	DA	AN(3)	QU(1)
b. Effluent Flow Rate Monitor (Waste Gas Discharge Flow)	*	NA	AN	NA
6. Unit Vent Monitoring				
a. Noble Gas Activity Monitor (RIA-45)	DA	MO	AN(3)	QU(2)
b. Iodine Sampler	DA	NA	NA	NA
c. Particulate Sampler	DA	NA	NA	NA
d. Effluent Flow Rate Monitor (Unit Vent Flow)	DA	NA	AN	NA
e. Minimum Flow Device	DA	NA	AN	NA

ATTACHMENT II

Supplemental Technical Justification

Supplemental Technical Justification

This amendment request is the result of an additional waste effluent monitoring line and modifications to a present line due to the addition of the Radwaste Facility at Oconee Nuclear Station. Presently Table 3.5.5-1, Liquid Effluent Monitoring Instrumentation Operating Conditions, lists 1 RIA-33 as a Liquid Radwaste Effluent Line Monitor. This particular monitor is located in the Turbine Building and monitors the liquid waste effluents in the discharge line to the Keowee Hydro Tailrace. A modification will install a liquid radwaste effluent line monitor labeled 4 RIA-33 at the Radwaste Facility. 4 RIA-33 replaces 1 RIA-33 due to the excessive cost associated with repairing this failing monitor and will have the exact same function as 1 RIA-33, which includes a shutoff point if activity exceeds the setpoints. Once 4 RIA-33 is installed and operable, 1 RIA-33 will be removed from service. The minimum operable channels, applicability, and operator action will remain the same. The relative operability of these monitors is specified in the appropriate footnotes.

Also in Table 3.5.5-1, a liquid radwaste effluent line monitor labeled 4 RIA-33a is being added. This monitor was installed at the Radwaste facility and monitors liquid effluents from the Radwaste Facility. The minimum operable channels, applicability and operator action are the same as for 4 RIA-33. The parenthetical phase under item 4, "Continuous Composite Sampler", has been deleted in order to be consistent with the intent of the table and avoid confusion as to the inputs to chemical Treatment Pond #3.

Table 4.1-4, Radioactive Effluent Monitoring Instrumentation Surveillance Requirements, addresses the surveillance requirements for 1 RIA-33, 4 RIA-33 and 4 RIA-33a. 4 RIA-33 includes an Effluent Flow Rate Monitor, however 4 RIA-33a does not because releases through this monitor will not require flow control to ensure adequate dilution. The frequency for the checks, calibration and tests remain the same.