Oconee Nuclear Station
Selected Licensee Commitments
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16.9 AUXILIARY SYSTEMS

FIRE PROTECTION SYSTEMS

16.9.6 FIRE DETECTION INSTRUMENTATION

COMMITMENT

The minimum Fire Detection Instrumentation required for each equipment/location shown in Table 16.9-6 shall be OPERABLE.

APPLICABILITY: Whenever equipment in the area covered by the Fire Detection Instrumentation is required to be OPERABLE. The Fire Detection Instrumentation located within containment is not required to be OPERABLE during the performance of Type A Containment Leakage Rate Tests.

ACTION:

OCONEE

a. When more than 50% or if any 2 adjacent detectors for the equipment/location shown in Table 16.9-6 are not OPERABLE, appropriate action shall be taken consisting of the following:

   i. Within 1 hour, a fire watch patrol shall be established to inspect the accessible equipment/location with the inoperable instrumentation at least once per hour.

   ii. An hourly firewatch is not required for inaccessible equipment/locations such as the Reactor Building at power operation. Periodic inspections using a TV camera if available, or the inaccessible equipment condition may be monitored by remote indications which would provide early warning of a fire.

   iii. Operation under these action statements is not reportable under Technical Specification 6.6.2.1.

KEOWEE

a. When the equipment/location are not OPERABLE as indicated in Table 16.9-6, the appropriate action shall be taken consisting of the following:

i. Within 1 hour, a fire watch patrol shall be established to inspect the accessible equipment/location with the inoperable instrumentation at least once per hour.

ii. Operation under the above action statement is not reportable under Technical Specification 6.6.2.1.

OCONEE & KEOWEE

b. Operability of fire detection instrumentation for adequate equipment/location coverage may also be determined by the Site Fire Protection Engineer or designee.

SURVEILLANCE:

OCONEE

a. Each of the fire detection instruments listed in Table 16.9-6 shall be tested for operability monthly by performance of a Channel Functional Test using the Fire Detection Instrumentation Control Board Panel Test Switch.

b. Each of the fire detection instruments listed in Table 16.9-6 shall be visually inspected semiannually, except those detectors inaccessible during power operation. Inaccessible detectors shall be inspected at each refueling outage.

c. Each of the fire detectors listed in Table 16.9-6 shall be tested for sensitivity at least annually.

KEOWEE

a. Each of the fire detectors listed in Table 16.9-6 shall be visually inspected semiannually.

b. Each of the fire detectors listed in Table 16.9-6 shall be tested for operability annually by performance of a Channel Functional Test.

c. Each of the fire detectors listed in Table 16.9-6 with the exception of generator detectors shall be tested for sensitivity at least annually.

BASES:

OPERABILITY of the Fire Detection Instrumentation ensures that adequate warning capability is available for the prompt detection of fires. This capability is required in order to detect and locate fires in their early stages. Prompt detection of fires will reduce the potential for damage to safety related equipment and is an integral element in the overall facility fire protection program.

In the event that a portion of the Fire Detection Instrumentation is inoperable, the establishment of compensatory actions in the affected areas is required to provide detection capability until the inoperable instrumentation is restored to operability.

This Selected Licensee Commitment is part of the Oconee Fire Protection Program and therefore subject to the provisions of Oconee Facility Operating License Conditions.

REFERENCES:

1) Oconee FSAR, Chapter 9.5-1.

2) Oconee Fire Protection SER dated August 11, 1978.

3) Oconee Fire Protection Review, as revised.

4) Oconee Plant Design Basis Specification for Fire Protection, as revised.

5) Oconee Plant Design Basis Specification for Fire Detection, as revised.

STATION MANAGER APPROVAL B. L. Peele / R L Sweigart DATE 11/11/94

TABLE 16.9-6

Fire Detection Instrumentation

a. Oconee Nuclear Station

ELEV	UNIT	EQUIPMENT/LOCATION PROTECTED	DETECTORS PROVIDED
i. REACTOR CONTAINMENT			
796, 850	1	Reactor Bldg Penetrations	8
845	1	Reactor Coolant Pumps	8
830	1	Reactor Bldg Cooling Unit	6
796	2	Reactor Bldg Penetrations	8
845	2	Reactor Coolant Pumps	8
796	2	Reactor Bldg Cooling Unit	6
796	3	Reactor Bldg Penetrations	8
845	3	Reactor Coolant Pumps	8
796	3	Reactor Bldg Cooling Unit	6
ii. BLOCKHOUSE			
796	1-2	Switchgear B1T, B2T	3
796	1-2	CT-4 Transformer	2
796	3	Switchgear 3B1T, 3B2T	3
iii. 4160 VOLT SWITCHGEAR			
796	1	4160V Switchgear(1TC)	2
796	1	4160V Switchgear (1TD)	2
796	1	4160V Switchgear (1TE)	2
796	2	4160V Switchgear (2TC)	2
796	2	4160V Switchgear (2TC)	2
796	2	4160V Switchgear (2TE)	2

Table 16.9-6
(Con't)

ELEV	UNIT	EQUIPMENT/LOCATION PROTECTED	DETECTORS PROVIDED
796	3	4160V Switchgear (3TC)	2
796	3	4160V Switchgear (3TD)	2
796	3	4160V Switchgear (3TE)	2
iv.	EMERGENCY FEEDWATER PUMP TURBINE		
771	1	EFWP Turbine	1
771	2	EFWP Turbine	1
771	3	EFWP Turbine	1
v.	CABLE ROOM		
809	1	Cable Room	19
809	2	Cable Room	18
809	3	Cable Room	28
vi.	PUMP ROOMS		
758	1	Between LPI Pumps 1A&1C	2
758	1-2	Between LPI Pumps 1B&2B	2
758	2	Between LPI Pumps 2A&2C	2
758	3	LPI 3A Pumps	2
758	3	Between LPI Pumps 3B&3C	2
758	1	Between HPI Pumps 1A&1B	1
758	1-2	Between HPI Pumps 1C&2C	1
758	2	Between HPI Pumps 2A&2B	1
758	3	HPI 3C Pumps	1
758	3	Between HPI Pumps 3A&3B	1
vii.	PENETRATION ROOMS		
822	1	East Penetration Room	7
809	1	Above MCC's (1XH, 1XI, 1XJ)	3
822	2	East Penetration Room	11
809	2	Above MCC's (2XH, 2XI, 2XJ)	3

Table 16.9-6
(Con't)

ELEV	UNIT	EQUIPMENT/LOCATION PROTECTED	DETECTORS PROVIDED
822	3	East Penetration Room	6
809	3	Above MCC's (3XH, 3XI, 3XJ)	3
822	1	West Penetration Room	5
822	2	West Penetration Room	5
822	3	West Penetration Room	5
vii. CONTROL ROOMS			
822	1-2	Control Room Area (Operations Work Area and TSC)	8
822	1-2	Computer Room	1
822	3	Control Room Area (OSC and Operations Work Area)	6
822	3	Computer Room	1
viii. CABLE SHAFT			
822	1	Unit 1 Cable Shaft	2
822	2	Unit 2 Cable Shaft	2
822	3	Unit 3 Cable Shaft	2
ix. BATTERY ROOM			
809	1	Control Battery Room	5
809	2	Control Battery Room	5
809	3	Control Battery Room	2

Table 16.9-6
(Con't)

ELEV	UNIT	EQUIPMENT/LOCATION PROTECTED	DETECTORS PROVIDED
x.	EQUIPMENT ROOM		
796	1	Equipment Room	12
796	2	Equipment Room	13
796	3	Equipment Room	20

b.	KEOWEE HYDRO STATION	DETECTORS PROVIDED/OPERABLE
700	Control Room	4/2
688	Battery Room	4/2
700	Mechanical Equipment Gallery	3/2
700	Main Lube Oil Storage Room	1/1

Table 16.9-6
(Con't)

ELEV	UNIT	EQUIPMENT/LOCATION PROTECTED	DETECTORS PROVIDED/ OPERABLE
701		Generator #1	6/4
701		Generator #2	6/4
710		Operating Floor	6/4