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16.9

AUXILIARY SYSTEMS

FIRE PROTECTION SYSTEMS

16.9.1

FIRE SUPPRESSION WATER SYSTEM

COMMITMENT

NOTE:

The High Pressure Service Water (HPSW) system is used both in support of the Low Pressure Service Water (LPSW) system and for Fire Suppression. The most restrictive requirements for the HPSW system are derived from the support function for LPSW. (See section 16.9.8 - HPSW requirement to support LPSW.)

The Fire Suppression Water System shall be OPERABLE with:

OCONEE

- a. High Pressure Service Water (HPSW) pumps A&B with automatic initiation logic, and associated piping and valves supplying water to the sprinkler system and fire hose stations.
- b. The HPSW pumps shall be aligned to the high pressure fire header.

KEOWEE

- c. The Fire Protection Pump, automatic initiation logic, the associated piping and valves supplying water to the Main Transformer Water Spray system and hose stations listed in SLC 16.9.4 with the exception of the Mechanical Equipment Gallery stations.

APPLICABILITY: At all times.

ACTION:

- a. Inoperable equipment shall be restored to operable status within 7 days or guidance shall be developed outlining the plans and procedures to be used to provide for the loss of redundancy in this system.

OCONEE

- i. Continued operation of the affected unit is permitted provided that the above action is met.
- ii. Operation under the above action statement is not reportable under Technical Specification 6.6.2.1.

KEOWEE

- iii. Continued operation of the station is permitted provided that the above action is met.
  - iv. Operation under the above action statement is not considered reportable under Technical Specification 6.6.2.1.
- b. With no Fire Suppression Water System operable, in lieu of the above, the following action shall be taken:

OCONEE

- i. Within 24 hours a backup Fire Suppression Water System shall be established. If a backup Fire Suppression Water System cannot be established within 24 hours, place the reactor in Hot Standby within the next 12 hours and in Cold Shutdown within the following 48 hours.
- ii. If a Unit shut-down is started as required above, an unusual event shall be declared.

KEOWEE

- iii. Within 24 hours a backup Fire Suppression Water System shall be established. If a backup Fire Water System cannot be established within 24 hours, a plan shall be developed within the next 24 hours to restore the primary system.
- iv. If all attempts to restore the Fire Suppression Water System or a plan cannot be met; continue attempts for 14 days and energize the Standby Bus from Lee on the dedicated path within one (1) hour. If at the end of 14 days the Fire Suppression Water System or a plan is still not available, place all operating ONS units to Hot Standby within the next 12 hours and Cold Shutdown within the next 48 hours.

SURVEILLANCE:

- a. The Fire Suppression Water System shall be demonstrated OPERABLE:

OCONEE

- i. Monthly, a functional test of the HPSW pumps and associated automatic valve shall be performed.
- ii. Monthly, proper alignment of valves shall be verified.
- iii. Annually, each HPSW pump shall be tested to verify flow.
- iv. At least Tri-Annually a system flow test shall be performed on the Fire Suppression Water System in accordance with Chapter 5, Section 11 of the Fire Protection Handbook, 14 Edition, NFPA.

KEOWEE

- v. Weekly, the Fire Protection Pump shall be verified functional.
- vi. Monthly, proper alignment of valves shall be verified.
- vii. Annually, the Fire Protection Pump shall be performance tested.
- viii. Annually, the system shall be flow tested by actuation of the Main Transformer water spray system.

BASES:

The OPERABILITY of the Fire Suppression System ensures that adequate fire suppression capability is available to confine and extinguish fires occurring in any portion of the facility where safety-related equipment is located. The Fire Suppression System consists of the water system, spray and/or sprinklers, Keowee CO<sub>2</sub> and fire hose stations. The collective capability of the Fire Suppression Systems is adequate to minimize potential damage to safety-related equipment and is a major element in the facility fire protection program.

In the event that portions of the Fire Suppression Systems are inoperable, alternate backup fire-fighting equipment is required to be made available in the affected areas until the inoperable equipment is restored to service.

The Testing Requirements provide assurance that the minimum OPERABILITY requirements of the Fire Suppression Systems are met.

In the event the Fire Suppression Water System becomes inoperable, immediate corrective measures must be taken since this system provides the major fire suppression capability of the plant. The requirements for the reports to the commission are contained in 10 CFR 50.72 and 50.73. The Emergency Plan requires the declaration of an Unusual Event when a Unit shut-down is required by this SLC. This is reportable under 10 CFR 50.72.

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.

STATION MANAGER APPROVAL B.L. Parley / R.L. Sweigart DATE 11/10/94