

ATTACHMENT 3 TO TXX-96405

AFFECTED TECHNICAL SPECIFICATION PAGES (NUREG-1468)

(PAGES 3/4 7-27, 3/4 7-27a, B 3/4 7-8 AND B 3/4 7-8a)

PLANT SYSTEMS

3/4.7.11 UPS HVAC SYSTEM

OPERATING

LIMITING CONDITION FOR OPERATION

- 3.7.11 ~~Two independent UPS HVAC trains~~ The Uninterruptible Power Supplies (UPS) HVAC System shall be OPERABLE such that each UPS & Distribution Room is supported by either:
- a. An OPERABLE UPS Room Fan Coil Unit, or
 - b. An OPERABLE UPS Air Conditioning (A/C) Train which is the same train as the UPS in the room.

APPLICABILITY: MODES 1, 2, 3 and 4.

ACTION: ~~(Units 1 and 2)~~

~~With only one UPS HVAC train OPERABLE, restore the inoperable system to OPERABLE status within 7 days or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.~~

- a. With one or more UPS & Distribution Room supported only by an OPERABLE UPS A/C Train, which is not the same Train as the UPS in that room, restore the required support for each UPS & Distribution Room to an OPERABLE status within 30 days or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
- b. With one or more UPS & Distribution Room not supported by an OPERABLE UPS Fan Coil Unit or A/C Train, but with a UPS A/C Train circulating air, restore the required support to an OPERABLE status within 72 hours while complying with Technical Specification 3/4.7.10 for the UPS Room or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
- c. With one or more UPS & Distribution Rooms not supported by forced cooling or circulating air, restore the required support within 1 hour, or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

SURVEILLANCE REQUIREMENTS

4.7.11.1 Each required UPS HVAC A/C train shall be demonstrated OPERABLE at least once per 18 months* by verifying it actuates on an actual or simulated actuation signal.†

- a. ~~Verifying that each UPS HVAC train starts automatically on a SAFETY Injection test signal.~~
- b. ~~Verifying that each UPS HVAC train starts automatically on a Blackout test signal.~~

4.7.11.2 Each required UPS HVAC A/C train shall be demonstrated OPERABLE at least once per 31 days by ~~starting the non-operating UPS HVAC train and~~ verifying that the train operates for at least 1 hour.

4.7.11.3 Each required UPS Room Fan Coil Unit shall be demonstrated OPERABLE at least once per 31 days by verifying that the UPS Room Fan Coil Unit operates for at least one hour.

~~* The surveillance test interval is extended to 24 months for
Train A, Unit 2, to remain in effect until the completion of the
second refueling outage for Unit 2.~~

TECHNICAL SPECIFICATIONS BASES

3/4.7.1. UPS HVAC SYSTEM

The ~~OPERABILITY of the~~ UPS HVAC System ensures that the ~~uninterruptible power supply & distribution rooms~~ UPS & Distribution Rooms ambient air temperatures do not exceed the allowable temperatures per Specification 3/4.7.10 for continuous-duty rating for the equipment and instrumentation cooled by this equipment.

The UPS HVAC System consists of a) a dedicated 100% capacity UPS Room Fan Coil Unit (FCU) in each safety related UPS & Distribution Room and b) two, each 100% capacity, electrically independent and redundant UPS A/C Trains either of which can provide redundant and diverse backup cooling for all four UPS & Distribution Rooms.

Either a UPS & Distribution Rooms' UPS Room Fan Coil Unit or an UPS A/C Train are capable of maintaining the UPS & Distribution Room below its design temperature limits during normal and accident conditions.

The UPS HVAC system is a normally operating system. Each FCU normally provides the required temperature control to maintain its respective room below 104°F during normal plant conditions. A single A/C train can also provide the required temperature control to maintain the UPS & Distribution rooms between below 104°F during normal plant conditions.

The UPS Room FCUs are dedicated to the UPS Unit and Train they support. The UPS A/C Train components are arranged in redundant safety related trains. During emergency operation, the UPS HVAC System maintains the temperature below 104°F. Starting with minimum OPERABLE equipment required by the LCO, a single active failure of a component of the UPS HVAC System, with a loss of offsite power, does not impair the ability of the system to perform its design function.

The UPS HVAC system is OPERABLE when each UPS & Distribution Room is supported by either an OPERABLE UPS Room FCU or an OPERABLE UPS A/C Train which is the same electrical train as the UPS in that room.

A FCU is considered OPERABLE as long as it is in the "on" position and it has cooling water and its fan is operating. If a FCU is "off" for maintenance or other reasons, it is not considered OPERABLE since it will not start automatically. A FCU in the "ON" position restarts when power is regained following a loss of offsite power. A UPS A/C Train starts on a actuation signal and therefore is OPERABLE, if in standby.

In the event a FCU is inoperable and the respective A/C Train is also inoperable, 100% cooling can be provided by the opposite train's A/C Train. If one or more UPS & Distribution Rooms does not have "same Train" cooling, a single failure in the opposite Train

could result in a loss of cooling to the affected rooms and loss of the function of the equipment in the UPS & Distribution Room of the opposite Train. As a result, the temperatures in the affected room would increase until it exceeded the maximum demonstrated operating temperature for the equipment in the room. 30 days is an acceptable completion time to restore "same Train" cooling due to the flexibility in the design with room coolers for each room and redundant UPS A/C Trains which are each capable of cooling all the UPS & Distribution Rooms.

If one or more UPS & Distribution Rooms loses all cooling, the affected rooms will begin to heat up. If either or both UPS A/C Trains is circulating air through the supported areas, the mixing will result in a much slower rate of temperature increases. The completion time of 72 hours allows restoration before the temperature rises to a level that the equipment in the affected rooms are impacted. To confirm the equipment's OPERABILITY, the temperature in the affected rooms is verified to be less than or equal to 104°F within one hour and every 12 hours thereafter.

If one or more UPS & Distribution Rooms loses forced cooling and neither UPS A/C Train is circulating air in those rooms or if both rooms lose forced cooling, the temperature rise is expected to affect equipment operability in a short period of time. One hour is allowed to restore circulating air or forced cooling.

Each actuation signal should be tested during the test frequency. The applicable signals for the UPS A/C Trains are the Safety Injection (SI) and Station Blackout Signal (BOS).