

Attachment 3

PROPOSED TECHNICAL SPECIFICATIONS

Marked-up Technical Specification Pages:

3/4 8-8 (with Insert A)  
B 3/4 8-5

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SURVEILLANCE REQUIREMENTS (Continued)

shall be maintained within these limits during this test.  
~~Within 5 minutes after completing this 24-hour test, perform Specification 4.8.1.1.2.g.4)b),\*\*~~

- 8) Verifying that the auto-connected loads to each diesel generator do not exceed 2500 kW (Unit 3), 2874 kW (Unit 4);
  - 9) Verifying the diesel generator's capability to:
    - a) Synchronize with the offsite power source while the generator is loaded with its emergency loads upon a simulated restoration of offsite power,
    - b) Transfer its loads to the offsite power source, and
    - c) Be restored to its standby status.
  - 10) Verifying that the diesel generator operating in a test mode, connected to its bus, a simulated Safety Injection signal overrides the test mode by: (1) returning the diesel generator to standby operation, and (2) automatically energizing the emergency loads with offsite power;
  - 11) Verifying that the fuel transfer pump transfers fuel from the fuel storage tank (Unit 3), fuel storage tanks (Unit 4) to the day tanks of each diesel associated with the unit via the installed cross-connection lines;
  - 12) Verifying that the automatic load sequence timer is OPERABLE with the interval between each load block within  $\pm 10\%$  of its design interval;
  - 13) Verifying that the diesel generator lockout relay prevents the diesel generator from starting.
- h. At least once per 10 years or after any modifications which could affect diesel generator interdependence by starting all required diesel generators simultaneously and verifying that all required diesel generators provide  $60 \pm 1.2$  Hz frequency and  $4160 \pm 420$  volts in less than or equal to 15 seconds; and
- i. At least once per 10 years by:
- 1) Draining each fuel oil storage tank, removing the accumulated sediment and cleaning the tank.
  - 2) For Unit 4 only, performing a pressure test of those portions of the diesel fuel oil system designed to Section III, subsection ND of the ASME Code in accordance with Section XI of the ASME Boiler and Pressure Vessel Code and applicable Addenda.

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INSERT A  
NEXT PAGE

~~\*\*If Specification 4.8.1.1.2.g.4)b) is not satisfactorily completed, it is not necessary to repeat the 24-hour test. Instead, the diesel generator may be operated between 2300-2500 kW Unit 3, 2650-2850 kW (Unit 4) for 1 hour or until operating temperature has stabilized and then within 5 minutes repeat Specification 4.8.1.1.2.g.4)b).~~



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New Insert A

- 14) Operating the diesel generator between 2300-2500 kW (Unit 3), 2650-2850 kW (Unit 4)\* for 1 hour, or until operating temperature has stabilized, whichever is longer, and, within 5 minutes of shutting down the diesel generator following this run, performing Specification 4.8.1.1.2.g.4)b).

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\* Momentary transients outside of these load bands do not invalidate this test.

## ELECTRICAL POWER SYSTEMS

### BASES (Continued)

The Surveillance Requirements for demonstrating the OPERABILITY of the diesel generators are in accordance with the recommendations of Regulatory Guides 1.9, "Selection of Diesel Generator Set Capacity for Standby Power Supplies," March 10, 1971; 1.108, "Periodic Testing of Diesel Generator Units Used as Onsite Electric Power Systems at Nuclear Power Plants," Revision 1, August 1977; ~~and~~ 1.137, "Fuel-oil Systems for Standby Diesel Generators," Revision 1, October 1979; ~~and NUREG 1366, "Improvements to Technical Specification Surveillance Requirements," December 1982.~~

The OPERABILITY of the minimum specified A.C. and D.C. power sources and associated distribution systems during shutdown and refueling ensures that (1) the facility can be maintained in the shutdown or refueling condition for extended time periods, and (2) sufficient instrumentation and control capability is available for monitoring and maintaining the unit status. During a unit shutdown, the one required circuit between the offsite transmission network and the onsite Class 1E Distribution System can consist of at least the associated unit startup transformer feeding one 4160 volt Bus A or B, or the opposite unit's startup transformer feeding the associated unit's 4160 volt Bus A, or the associated unit's 4160 volt Bus A or B backfed through its auxiliary transformers with the main generator isolated.

As inoperability of numerous electrical components often affect the operation of the opposite unit, the applicability for the shutdown LIMITING CONDITION FOR OPERATION (LCO) for A.C. Sources, D.C. Sources and Onsite Power Distribution all contain statements to ensure the LCO's of the opposite unit are considered.

The allowable out-of-service time for the D.C. busses is 24 hours with one unit shutdown in order to allow for required battery maintenance without requiring both units to be shutdown. Provisions to substitute the spare battery for any one of the four station batteries have been included to allow for battery maintenance without requiring both units to be shutdown. The requirement to have only one OPERABLE battery charger associated with a required battery bank permits maintenance to be conducted on the redundant battery charger.

A battery charger may be considered acceptable when supplying less than 10 amperes provided:

- 1) The battery charger's ability to independently accept and supply the D.C. bus has been verified within the previous 7 days and
- 2) D.C. output voltage is  $\geq$  129 volts.

The minimum number of battery chargers required to be OPERABLE is based on the following criteria:

- 1) A minimum of one battery charger per bus with each powered from a separate 480 volt MCC is required to satisfy the single failure criteria when assuming the failure of a MCC. This restriction prohibits the use of two chargers powered from the same bus for meeting the minimum requirements.



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