

Enclosure 3

VOGTLE ELECTRIC GENERATING PLANT  
REVISION TO TECHNICAL SPECIFICATION 4.8.1.1.2.j.(2)  
AC SOURCES

INSTRUCTIONS FOR INCORPORATION

The proposed amendment to the Technical Specifications would be incorporated as follows:

Remove Page

3/4 8-8

B3/4 8-3

Insert Page

3/4 8-8

B3/4 8-3

## ELECTRICAL POWER SYSTEMS

### SURVEILLANCE REQUIREMENTS

5 minutes of stopping the diesel generator after having operated for a minimum of 2 hours loaded to an indicated 6800 - 7000 kw. Momentary transients outside of the load range do not invalidate this test.

- 9) Verifying that the auto-connected loads to each diesel generator do not exceed the continuous rating of 7000 kW;
  - 10) 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.
  - 11) Verifying that with 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;
  - 12) Verifying that the fuel transfer pump transfers fuel from each fuel storage tank to the day tank of each diesel via the installed cross-connection lines;
  - 13) Verifying that the automatic load sequence timer is OPERABLE with the interval between each load block within  $\pm 10\%$  of its design interval;
- i. At least once per 10 years or after any modifications which could affect diesel generator interdependence by starting both diesel generators simultaneously, during shutdown, and verifying that both diesel generators accelerate to at least 440 rpm in less than or equal to 11.4 seconds; and
- j. At least once per 10 years by:
- 1) Draining each fuel oil storage tank, removing the accumulated sediment and cleaning the tank using a sodium hypochlorite solution, or equivalent, and
  - 2) Performing a pressure test of those <sup>isolable</sup> portions of the diesel fuel oil system designed to Section III, subsection ND of the ASME Code at a test pressure equal to 110% of the system design pressure.

→ piping

## ELECTRICAL POWER SYSTEMS

### BASES

#### A.C. SOURCES, D.C. SOURCES, and ONSITE POWER DISTRIBUTION (Continued)

The Surveillance Requirements for demonstrating the OPERABILITY of the diesel generators are based on the recommendations of Regulatory Guides 1.9, Revision 3 "Selection, Design, Qualification, and Testing of Emergency Diesel Generator Units Used as Class 1E Onsite Electric Power Systems of Nuclear Power Plants," July 1993; and 1.137, "Fuel-Oil Systems for Standby Diesel Generators," Revision 1, October 1979, Appendix A to Generic Letter 84-15; Generic Letter 83-26, "Clarification of Surveillance Requirements for Diesel Fuel Impurity Level Tests;" and Generic Letter 93-05, "Line-Item Technical Specifications Improvements to Reduce Surveillance Requirements for Testing During Power Operation."

The Surveillance Requirement for demonstrating the OPERABILITY of the station batteries are based on the recommendations of Regulatory Guide 1.129, "Maintenance Testing and Replacement of Large Lead Storage Batteries for Nuclear Power Plants," February 1978, and IEEE Std 450-1975, "IEEE Recommended Practice for Maintenance, Testing, and Replacement of Large Lead Storage Batteries for Generating Stations and Substations," and 484-1975 "Recommended Practice for Installation Design and Installation of Lead Storage Batteries for Generating Stations and Substations."

Verifying average electrolyte temperature above the minimum for which the battery was sized, total battery terminal voltage on float charge, connection resistance values, and the performance of battery service and discharge tests ensures the effectiveness of the charging system, the ability to handle high discharge rates, and compares the battery capacity at that time with the rated capacity.

Table 4.8-2 specifies the normal limits for each designated pilot cell and each connected cell for electrolyte level, float voltage, and specific gravity. The limits for the designated pilot cells float voltage and specific gravity, greater than 2.13 volts and 0.015 below the manufacturer's full charge specific gravity or a battery charger current that had stabilized at a low value, is characteristic of a charged cell with adequate capacity. The normal limits for each connected cell for float voltage and specific gravity, greater than 2.13 volts and not more than 0.020 below the manufacturer's full charge specific gravity with an average specific gravity of all the connected cells not more than 0.010 below the manufacturer's full charge specific gravity, ensures the OPERABILITY and capability of the battery.

A pressure test of the diesel generator fuel oil piping will be required on the isolable portions of (1) the transfer pump discharge piping to the day tank, (2) the fuel oil supply line from the day tank to the vendor-supplied piping, and (3) the fuel oil return piping from the vendor-supplied piping to the regulator valve. The diesel generator fuel oil day tank will be tested by recirculating the fuel oil and verifying no tank leakage. The diesel generator fuel oil storage tank will be tested by filling the tank to a level greater than the normal fill level and monitoring the level for a period of time and verifying no drop in fuel oil level.