

ENCLOSURE 1

PROPOSED TECHNICAL SPECIFICATIONS FOR

SEQUOYAH NUCLEAR PLANT UNITS 1 AND 2

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SURVEILLANCE REQUIREMENTS (Continued)

Within 5 minutes after completing this 24 hour test, perform Specification 4.8.1.1.2.c.4. The generator voltage and frequency shall be 6900 ± 690 volts and 60 ± 1.2 Hz within 10 seconds after the start signal; the steady state generator voltage and frequency shall be maintained within these limits during this test.

9. Verifying that the auto-connected loads to each diesel generator do not exceed the 2000 hour rating of 4000 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 shutdown 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 automatic load sequence timers are OPERABLE with the setpoint for each sequence timer within ± 5 percent of its design setpoint.
13. Verifying that the following diesel generator lockout features prevent diesel generator starting only when required:
 - a) Engine overspeed
 - b) 86 GA lockout relay
- e. At least once per 10 years or after any modifications which could affect diesel generator interdependence by starting the diesel generators simultaneously, during shutdown, and verifying that the diesel generators accelerate to at least 900 rpm in less than or equal to 10 seconds.
- f. 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, and
 2. Performing a pressure test of those portions of the diesel fuel oil system design to Section III, subsection ND of the ASME Code at a test pressure equal to 110 percent of the system design pressure.

*These requirements are waived for the initial surveillance.

**These requirements are waived for the period from December 23, 1982 until the startup from the second refueling outage.

ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

8. Verifying the diesel generator operates for at least 24 hours. During the first 2 hours of this test, the diesel generator shall be loaded to greater than or equal to 4400 kw and during the remaining 22 hours of this test, the diesel generator shall be loaded to greater than or equal to 4000 kw. The generator voltage and frequency shall be 6900 ± 690 volts and 60 ± 1.2 Hz within 10 seconds after the start signal; the steady state generator voltage and frequency 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.d.4.b
9. Verifying that the auto-connected loads to each diesel generator do not exceed the 2000 hour rating of 4000 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 shutdown 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 automatic load sequence timers are OPERABLE with the setpoint for each sequence timer within ± 5 percent of its design setpoint.
13. Verifying that the following diesel generator lockout features prevent diesel generator starting only when required:
 - a) Engine overspeed
 - b) 86 GA lockout relay
- e. At least once per 10 years or after any modifications which could affect diesel generator interdependence by starting the diesel generators simultaneously, during shutdown, and verifying that the diesel generators accelerate to at least 900 rpm in less than or equal to 10 seconds.

**These requirements are waived for the period from December 23, 1982 until the startup from the second refueling outage.

ENCLOSURE 2

JUSTIFICATION FOR PROPOSED TECHNICAL SPECIFICATION SEQUOYAH NUCLEAR PLANT

The diesel generator system at Sequoyah is designed to operate in the following manner when it is aligned in the test mode.

1. If a safety injection signal (SIS) occurs during the test, the diesel will remain connected to the bus. The safety injection loads will be energized by offsite power. The diesel will not automatically disconnect and return to standby status; it remains connected to the bus. However, it is protected from excessive loading by the overcurrent relays.
2. If a blackout (BO) signal occurs during the test, either with or without a SIS, the diesel will be disconnected from the bus by an overcurrent relay and it will return to standby. The board will go dead and the normal BO or blackout/safety injection (BOSI) sequence will begin. The sequence will be completed in less time than if the diesel had to start.

The first situation is tested every 18 months to demonstrate that the diesel performs and is not damaged by an SIS generated during the test mode. The second condition was successfully tested on each diesel as part of the preoperational test program. The overcurrent relays are maintained through our normal plant maintenance program.

We believe that the present design meets the intent of the technical specification; however, we have been informed that it does not meet the letter of the technical specifications. We request a waiver from this requirement for the next operational cycle in order to pursue a permanent solution to the problem. We believe that the present design and testing program are adequate to ensure the operability of the diesel generators under all conditions only one diesel generator is tested at a time. Testing occurs in accordance with the schedule identified in the technical specifications. The offsite power system is very reliable in the Sequoyah area. Because of these facts and the probability of occurrence of multiple failures, which can lead to diesel failure (BO/BOSI occurring during test with a concurrent failure of at least two overcurrent relays) is sufficient to allow operation during this interim period.