

## ELECTRICAL POWER SYSTEM

### SURVEILLANCE REQUIREMENTS (Continued)

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- b) Verifying the diesel starts from ambient condition on the auto-start signal, energizes the emergency busses with permanently connected loads, energizes the auto-connected shutdown loads through the time delay relays and operates for  $\geq 5$  minutes while its generator is loaded with the shutdown loads.
- 6. Verifying that on an ESF actuation test signal (without loss of offsite power) the diesel generator starts on the auto-start signal and operates on standby for  $\geq 5$  minutes.
- 7.
- 78. Simulating a loss of offsite power in conjunction with an ESF actuation test signal, and
  - a) Verifying de-energization of the emergency busses and load shedding from the emergency busses.
  - b) Verifying the diesel starts from ambient condition on the auto-start signal, energizes the emergency busses with permanently connected loads, energizes the auto-connected emergency (accident) loads through the load sequencer and operates for  $\geq 5$  minutes while its generator is loaded with the emergency loads.
  - c) Verifying that all diesel generator trips, except engine overspeed, lube oil pressure, and generator differential, are automatically bypass upon a Safety Injection Actuation Signal.
- 89. 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 3135 Kw and during the remaining 22 hours of this test, the diesel generator shall be loaded to 2850 Kw. Within 5 minutes after completing this 24 hour test, repeat Specification 4.8.1.1.2.c.4.

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### SURVEILLANCE REQUIREMENTS (Continued)

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- 9 ~~IX~~. Verifying that the auto-connected loads to each diesel generator do not exceed the 2 hour rating of 3135 kw.
- 10 ~~IX~~. 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 simulator restoration of offsite power.
  - b) Transfer its loads to the offsite power source, and
  - c) Proceed through its shutdown sequence.
- 11 ~~IX~~. Verifying that with the diesel generator operating in a test mode (connected to its bus), a simulator safety injection signal overrides the test mode by (1) returning the diesel generator to standby operation and (2) automatically energizes the emergency loads with offsite power.
- 12 ~~IX~~. 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.
  - d. 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 900 rpm in  $\leq$  15 seconds.

4.8.1.1.3 REPORTS - all diesel generator failures, valid or non-valid, shall be reported to the Commission pursuant to Specification 6.9.1. If the number of failures in the last 100 valid tests (on a per nuclear unit basis) is  $\geq$  7, the report shall be supplemented to include the additional information recommended in Regulatory Position C.3.b of Regulatory Guide 1.108, Revision 1, August 1977.