

ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- operates for greater than or equal to 5 minutes while its generator is loaded with the emergency loads. After energization, the steady state voltage and frequency of the emergency busses shall be maintained at 4160 ± 420 volts and 60 ± 1.2 Hz during this test.
- c) Verifying that all automatic diesel generator trips, except engine overspeed and generator differential and low lube oil pressure, are automatically bypassed upon loss of voltage on the emergency bus and/or a safety injection test signal.
5. Verify that the diesel generators operate continuously for 24 hours of which 22 hours will be at a load of 4075 kw (continuous rating) for the 4075 kw diesels and 2850 kw (continuous rating) for the 2850 kw diesels and 2 hours will be at the maximum calculated accident load condition or the continuous load rating, whichever is greater. After completing this 24-hour test, reduce load, trip the diesel generator and demonstrate hot restart capability by performing Surveillance Requirement 4.8.1.1.2.a.4 within 10 minutes.
6. Verifying that the auto-connected loads to each diesel generator do not exceed the 2000-hour rating of 4353 kw for the 4075 kw generator and 3100 kw for the 2850 kw generator.
7. 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.
8. Verifying that with the diesel generators operating in a test mode (connected to its bus), a simulated safety injection signal overrides the test mode by returning the diesel generator to standby operation.
9. Verifying that the automatic load sequence timer is OPERABLE with each load sequence time within $\pm 10\%$ of its required value or 0.5 seconds whichever is greater.
10. Verifying that the following diesel generator lockout features prevent diesel generator starting only when required:
- a) Oil Temperature High (OTH)

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