

## SURVEILLANCE REQUIREMENTS (Continued)

7. Verifying the EDG operates for at least 24 hours.
  - a) The EDG shall be loaded to the continuous rating (4150-4250 kw\*\*) for the time required to reach engine temperature equilibrium, at which time the EDG shall be loaded to an indicated target value of 4676 kw (between 4600-4700 kw\*\*) and maintained for 2 hours.
  - b) During the remaining 22 hours of this test, the EDG shall be loaded to an indicated 4150-4250 kw\*\*.
  - c) During this test the steady state voltage and frequency shall be maintained at  $7200 \pm 720$  volts and  $60 \pm 1.2$  Hz.
  - d) Within 5 minutes after completing this 24-hour test, perform Surveillance Requirement 4.8.1.1.2.g (4.b.)
8. Verifying that the auto-connected loads to each EDG do not exceed the 2000 hour rating of 4548 kw.
9. Verifying the EDG'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 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 energizes the emergency loads with offsite power.
11. 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.
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 following diesel generator lockout features prevent diesel generator starting only when required:
  - a. Barring Device
  - b. Remote-Local-Maintenance Switch

\*\*This band is meant as guidance to avoid routine overloading of the engine. Loads in excess of this band shall not invalidate the test.

TABLE 4.8-1

DIESEL GENERATOR TEST SCHEDULE

<u>Number of Failures in Last 20 Valid Tests*</u>	<u>Number of Failures in Last 100 Valid Tests*</u>	<u>Test Frequency</u>
<u>≤1</u>	<u>≤4</u>	Once per 31 days
<u>≥2**</u>	<u>≥5</u>	Once per 7 days

\*Criteria for determining number of failures and number of valid tests shall be in accordance with Regulatory Position C.2.e of Regulatory Guide 1.108, but determined on a per diesel generator basis.

For the purposes of determining the required test frequency, the previous test failure count may be reduced to zero if, in conjunction with the manufacturer a complete diesel overhaul to like-new conditions is completed, and if acceptable reliability has been demonstrated. The reliability criterion shall be the successful completion of 14 consecutive tests in a single series. Ten of these tests shall be in accordance with Surveillance Requirement 4.8.1.1.2.a.3 and 4.8.1.1.2.a.4; four tests, in accordance with Surveillance Requirement 4.8.1.1.2.d. If this criterion is not satisfied during the first series of tests, any alternate criterion to be used to transvalue the failure count to zero requires NRC approval.

\*\*The associated test frequency shall be maintained until seven consecutive failure-free demands have been performed and the number of failures in the last 20 valid demands has been reduced to one.

ATTACHMENT II

CORRECTED TECHNICAL SPECIFICATIONS PAGES

ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

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  - c) During this test the steady state voltage and frequency shall be maintained at  $7200 \pm 720$  volts and  $60 \pm 1.2$  Hz.
  - d) Within 5 minutes after completing this 24-hour test, perform Surveillance Requirement 4.8.1.1.2.g.4.b.
8. Verifying that the auto-connected loads to each EDG do not exceed the 2000 hour rating of 4548 kw.
9. Verifying the EDG's capability to:
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11. 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.
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 following diesel generator lockout features prevent diesel generator starting only when required:
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\*\*The associated test frequency shall be maintained until seven consecutive failure free demands have been performed and the number of failures in the last 20 valid demands has been reduced to one.