

SURVEILLANCE REQUIREMENTS (Continued)

6. Simulating a loss-of-offsite power in conjunction with an ECCS actuation test signal, and:
 - a) Verifying deenergization of the emergency busses and load shedding from the emergency busses.
 - b) Verifying the diesel generator starts on the auto-start signal, energizes the emergency busses with permanently connected loads within 10 seconds, energizes the auto-connected loads through the load timers and 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 ± 400 volts and 60 ± 3.0 Hz during this test.
 - c) Verifying that all automatic diesel generator trips, except engine overspeed, generator differential and engine low lube oil pressure, are automatically bypassed upon loss of voltage on the emergency bus concurrent with an ECCS actuation signal.
7. Verifying with at least one unit in OPERATIONAL CONDITION-4 or -5 that the diesel generator operates for at least 24 hours. During the first 2 hours of this test, the diesel generator shall be loaded to 4400-4700 kW and during the remaining 22 hours of this test, the diesel generator shall be loaded to 3800-4000 kw. The generator voltage and frequency shall be 4160 ± 400 volts and 60 ± 3.0 Hz within 10 seconds after the start signal; the steady state generator voltage and frequency shall be maintained within these limits during this test.
8. Within 5 minutes of completing a one hour run at 3800-4000 Kw or within 5 minutes after operating temperatures have stabilized at a load of 3800-4000 Kw, verify the hot restart capability of the diesel by performing 4.8.1.1.2.a.4.
9. Verifying that the auto-connected loads to each diesel generator do not exceed the 2000-hour rating of 4700 kW.

** Diesel generator loading may be preceded by a warmup period in accordance with vendor recommendations. Diesel generator loading may be accomplished in accordance with vendor recommendations.

*** This load is meant as guidance to avoid routine overloading of diesel generators. Momentary transients outside the load range will not invalidate the test.

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