

3.0 SURVEILLANCE REQUIREMENTS

3.7 Emergency Power System Periodic Tests (Continued)

- i. Initiation of a simulated auto-start signal to verify that the diesel starts, followed by,
- ii. Initiation of a simulated simultaneous loss of 4.16 KV supplies to bus 1A3 (1A4). Proper operation will be verified by observation of:
 - (1) De-energization of bus 1A3 (1A4).
 - (2) Load shedding from bus (both 4160 V and 480 V).
 - (3) Energization of bus 1A3 (1A4).
 - (4) Automatic sequence start of emergency load, and
 - (5) Operation of \geq 5 minutes while its generator is loaded with the emergency load.
- iii. Verification that emergency loads do not exceed the 2000-HR KW rating of the engine. ⁽²⁾
- d. Manual control of diesel generators and breakers shall also be verified during refueling shutdowns.
- e. Each diesel generator shall be given a thorough inspection on a refueling (R) frequency in accordance with the manufacturer's recommendations for this class of standby service.*
- f. The fuel oil transfer pumps shall be verified to be operable each month.

(2) Station Batteries

- a. Every month the voltage of each cell (to the nearest 0.01 volt), the specific gravity, and temperature of a pig⁽³⁾ cell in each battery shall be measured and recorded. ⁽⁴⁾
- b. Every three months the specific gravity of each cell, the temperature reading of every fifth cell, and the amount of water added shall be measured and recorded. During the first refueling outage and every third refueling outage thereafter the batteries shall be subjected to a rated load discharge test.
- c. At monthly intervals the third battery charger, which is capable of being connected to either of the two D.C. distribution buses, shall be paralleled in turn to each D.C. bus. In each case, load shall be transferred to this reserve battery charger by switching out the normal charger. The reserve charger shall be run on load for 30 minutes on each bus and the system shall finally be returned to normal.

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3-59

* A onetime extension has been granted for this surveillance requirement, allowing the April 1988 surveillance for Diesel Generator #1 to be completed in October 1988.

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