

4.6 EMERGENCY POWER SYSTEM PERIODIC TESTS

Applicability: Applies to periodic testing and surveillance requirement of the emergency power system.

Objective: To verify that the emergency power system will respond promptly and properly when required.

Specification:

The following tests and surveillance shall be performed as stated:

4.6.1 Diesel Generators

- a. Manually-initiate start of the diesel generator, followed by manual synchronization with other power sources and assumption of load by the diesel generator up to the name-plate rating (3000 kw). This test will be conducted every month on each diesel generator. Normal plant operation will not be effected.
- b. Automatically start and loading the emergency diesel generator in accordance with Specification 4.5.1.1.b/c including the following. This test will be conducted every refueling interval on each diesel generator.
 - (1) Verify that the diesel generator starts from ambient condition upon receipt of the ES signal and is ready to load in ≤ 10 seconds.
 - (2) Verify that the diesel block loads upon simulated loss of offsite power in ≤ 30 seconds.
 - (3) The diesel operates with the permanently connected and auto connected load for ≥ 5 minutes.
 - (4) The diesel engine does not trip when the generator breaker is opened while carrying emergency loads.
 - (5) The diesel generator block loads and operates for ≥ 5 minutes upon reclosure of the diesel generator breaker.
- c. Deleted. |

4.6.2 Station Batteries

- a. The voltage, specific gravity, and liquid level of each cell will be measured and recorded:
 - (1) every 92 days
 - (2) once within 24 hours after a battery discharge <105 V
 - (3) once within 24 hours after a battery overcharge >150 V
 - (4) If any cell parameters are not met, measure and record the parameters on each connected cell every 7 days thereafter until all battery parameters are met.
- b. The voltage and specific gravity of a pilot cell will be measured and recorded weekly. If any pilot cell parameters are not met, perform surveillance 4.6.2.a on each connected cell within 24 hours and every 7 days thereafter until all battery parameters are met.
- c. Each time data is recorded, new data shall be compared with old to detect signs of abuse or deterioration.