

BASES

4. Instrumentation and control capability is available for monitoring and maintaining the unit in a cold shutdown condition and refueling condition.

With one or more of the required D.C. electrical power sources inoperable, the action provisions require a suspension of activities that will preclude the occurrence of actions that could potentially initiate the postulated events. However, timely suspension of these activities is not intended to preclude completion of actions necessary to establish a safe, conservative condition.

3/4.9.E Distribution - Operating

The OPERABILITY of the A.C. and D.C. onsite power distribution systems ensures that sufficient power will be available to the safety related equipment required for (1) the safe shutdown of the facility and (2) the mitigation and control of accident conditions within the facility.

The surveillance requirements verify that the A.C. and D.C. electrical power distribution systems are functioning properly, with all the required circuit breakers closed and the buses energized from normal power. The verification of proper voltage availability on the buses ensures that the required power is readily available for motive as well as control functions for critical system loads connected to these buses. The frequency takes into account the redundant capability of the A.C. and D.C. electrical power distribution subsystems, and other indications available in the control room that will alert the operator to subsystem malfunctions.

3/4.9.F Distribution - Shutdown

The OPERABILITY of the minimum specified A.C. and D.C. onsite power distribution systems, during Cold Shutdown and Refueling and when handling irradiated fuel in the secondary containment, ensures that the facility can be maintained in these conditions for extended time periods and sufficient instrumentation and control capability is available for monitoring and maintaining the unit status. Requiring OPERABILITY of the minimum specified onsite power distribution systems when handling irradiated fuel in the secondary containment helps to ensure that systems needed to mitigate a fuel handling accident are available.

3/4.9.G RPS Power Monitoring

Specifications are provided to ensure the OPERABILITY of the reactor protection system (RPS) bus electrical protection assemblies (EPAs). Each RPS motor generator (MG) set and the alternate power source has 2 EPA CHANNEL(s) wired in series. A trip of either CHANNEL from either overvoltage, undervoltage, or underfrequency will disconnect the associated MG set or alternate power source.

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