

## JAFNPP

### 3.9 (cont'd)

#### B. Emergency A-C Power System

The availability of electric power shall be as specified in 3.9.A, except as specified in 3.9.B.1, 3.9.B.2, 3.9.B.3, and 3.9.B.4, except when the reactor is in the cold condition:

1. From and after the time that incoming power is available from only one line or through only one reserve station service transformer, continued reactor operation is permissible for a period not to exceed 7\* days unless the line or reserve transformer is made operable earlier provided that during such 7\* days both Emergency Diesel Generator Systems are operable. At the end of the 7\*th day, if the condition still exists, the reactor shall be placed in a cold condition within 24 hours.
2. From and after the time that incoming power is not available from any line or through either reserve station transformer, continued reactor operation is permissible for a period not to exceed 7 days, provided that both redundant Emergency Diesel Generator Systems are operable, all core and containment cooling systems are operable and the shutdown cooling systems are operable. At the end of the seventh day, if the condition still exists, the Reactor shall be placed in a cold condition within 24 hours.

\*From September 9, 2001 through September 23, 2001, with 115 kV line #3 and/or one reserve station service transformer inoperable, continued reactor operation under this condition is permissible for a period not to exceed 14 days, provided 115 kV line #4 is operable.

### 4.9 (cont'd)

#### B. Emergency A-C Power System

1. Once each month, each pair of diesel generators which forms a redundant Emergency Diesel Generator System shall be manually initiated to demonstrate its ability to start, accelerate, and force parallel; after connection to the bus, the paralleled pair will be loaded to 5,200 KW, this load will be maintained until both generators are at steady state temperature conditions. During this period the generators' load sharing capability will be checked.
2. Once per month the diesel starting air compressors shall be checked for proper operation and their ability to recharge air receivers.

## JAFNPP

### 3.9 BASES

The general objective of this specification is to assure an adequate source of electrical power to operate the auxiliary equipment during plant operation, to operate facilities to cool and lubricate the plant during shutdown, and to operate the engineered safeguards and Emergency Core Cooling Systems equipment following a loss-of-coolant accident. There are three sources of power available; namely, the normal a-c power source, the reserve a-c power source and the emergency a-c power source.

#### A. Normal and Reserve A-C Power Systems

1. Normal plant a-c service power is supplied from a transformer connected to the main generator. This transformer is sized to carry 100 percent of plant auxiliary loads during normal operation. This transformer is not considered as a source of shutdown power since it is not available during shutdown conditions.
2. Reserve plant a-c service power is supplied from two transformers connected to the 115 Kv transmission system. Each of these transformers is sized to: (a) carry 50 percent of the plant auxiliary loads during station startup, and as a back-up supply for the normal source of a-c power; (b) to provide for maintenance and repair of equipment while retaining redundancy of power sources; and (c) as the primary source of a-c power for the engineered safeguards and Emergency Core Cooling Systems equipment.

If one of the sources of reserve a-c power is not available the plant shall be permitted to run for 7\* days provided that both emergency diesel generator systems are operable.

#### B. Emergency A-C Power System

Emergency a-c power is supplied from two on-site redundant Emergency Diesel Generator Systems. Each system is designed to carry the redundant engineered safeguards loads for emergency core cooling required for safe shutdown of the plant and to maintain the plant in a safe shutdown condition following a loss of coolant accident with concurrent loss of normal and reserve a-c power sources.

\*From September 9, 2001 through September 23, 2001, with 115 kV line #3 and/or one reserve station service transformer inoperable, continued reactor operation under this condition is permissible for a period not to exceed 14 days, provided 115 kV line #4 is operable.