

15.3.4 STEAM AND POWER CONVERSION SYSTEM

Applicability

Applies to the operating status of steam and power conversion system.

Objective

To define conditions of the steam and power conversion system steam-relieving capacity. Auxiliary Feedwater System and Service Water System operation is necessary to ensure the capability to remove decay heat from the core.

Specification

A. When the reactor coolant is heated above 350°F the reactor shall not be taken critical unless the following conditions are met:

(1) A minimum steam-relieving capability of eight (8) main steam safety valves available, except for low power physics testing.

(2)a. Two Unit Operation - All four auxiliary feedwater pumps together with their associated flow paths and essential instrumentation shall be operable.

b. Single Unit Operation - Both motor driven auxiliary feedwater pumps and the turbine driven auxiliary feedwater pump associated with that unit together with their associated flow paths and essential instrumentation shall be operable.

(3) A minimum of 10,000 gallons of water per operating unit in the condensate storage tanks and an unlimited water supply from the lake via either leg of the plant Service Water System.

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(4) System piping and valves required to function during accident conditions directly associated with the above components operable.

B. The iodine-131 activity on the secondary side of the steam generator shall not exceed 1.2  $\mu$ Ci/cc.

C. During power operation the requirements of 15.3.4.A.2.a and b may be modified to allow the following components to be inoperable for a specified time. If the system is not restored to meet the requirements of 15.3.4.A.2.a and b within the time period specified, the specified action must be taken. If the requirements of 15.3.4.A.2.a and b are not satisfied within an additional 48 hours, the appropriate reactor(s) shall be cooled down to less than 350°F.

1. Two Unit Operation - One of the four operable auxiliary feedwater pumps may be out-of-service for up to 72 hours.

If the inoperable auxiliary feedwater pump is a turbine driven pump and it cannot be restored to service within the time period the associated reactor shall be shutdown and in hot shutdown within the next 12 hours. If the inoperable auxiliary feedwater pump is one of the motor-driven pumps and it cannot be restored to service within the time period one of the reactors shall be shutdown and in hot shutdown within the next 12 hours.

2. Single Unit Operation - The turbine driven auxiliary feedwater pump may be out-of-service for up to 72 hours. If the turbine driven auxiliary feedwater pump cannot be restored to service within that time period, the reactor shall be shutdown and in hot shutdown within the next 12 hours. Either one of the two motor driven auxiliary

feedwater pumps may be out-of-service for an extended period of time, however, every effort shall be made to restore that motor driven auxiliary feedwater pump to service as soon as possible.