

**PROPOSED CHANGES**

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## DEFINITIONS

2. Closed by at least one manual valve, blank flange, or deactivated automatic valve secured in its closed position, except as provided in Table 3.6.3-1 of Specification 3.6.3.
- b. All primary containment equipment hatches are closed and sealed.
- c. Each primary containment air lock is in compliance with the requirements of Specification 3.6.1.3.
- d. The primary containment leakage rates are within the limits of Specification 3.6.1.2.
- e. The suppression chamber is in compliance with the requirement of Specification 3.6.2.1.
- f. The sealing mechanism associated with each primary containment penetration, e.g., welds, bellows, or O-rings, is OPERABLE.
- g. The suppression chamber to reactor building vacuum breakers<sup>valve sets</sup> are in compliance with Specification 3.6.4.2.

## THE PROCESS CONTROL PROGRAM

1.30 The PROCESS CONTROL PROGRAM (PCP) shall contain the provisions to assure that the SOLIDIFICATION of wet radioactive wastes results in a waste form with properties that meet the requirements of 10 CFR Part 61 and of low-level radioactive waste disposal sites. The PCP shall identify process parameters influencing SOLIDIFICATION, such as pH, oil content, H<sub>2</sub>O content, solids content, ratio of solidification agent to waste and/or necessary additives for each type of anticipated waste, and the acceptable boundary conditions for the process parameters shall be identified for each waste type, based on laboratory scale and full scale testing or experience. The PCP shall also include an identification of conditions that must be satisfied, based on full scale testing, to assure that dewatering of bead resins, powdered resins, and filter sludges will result in volumes of free water, at the time of disposal, within the limits of 10 CFR Part 61 and of low-level radioactive waste disposal sites.

## PURGE - PURGING

1.31 PURGE or PURGING is the controlled process of discharging air or gas from a confinement to maintain temperature, pressure, humidity, concentration or other operating condition, in such a manner that replacement air or gas is required to purify the confinement.

## RATED THERMAL POWER

1.32 RATED THERMAL POWER shall be a total reactor core heat transfer rate to the reactor coolant of 3293 MW<sub>T</sub>.

## REACTOR COOLANT SYSTEM

### 3/4.4.7 MAIN STEAM LINE ISOLATION VALVES

#### LIMITING CONDITION FOR OPERATION

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3.4.7 Two main steam line isolation valves (MSIVs) per main steam line shall be OPERABLE with closing times greater than or equal to 3 seconds and less than or equal to 5 seconds.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

#### ACTION:

- a. With one or more MSIVs inoperable: 4
1. Maintain at least one MSIV OPERABLE in each affected main steam line that is open and within ~~4~~ hours, either:
    - a) Restore the inoperable valve(s) to OPERABLE status, or
    - b) Isolate the affected main steam line by use of a deactivated MSIV in the closed position.
  2. Otherwise, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
- b. The provisions of Specification 3.0.4 are not applicable.

#### SURVEILLANCE REQUIREMENTS

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4.4.7 Each of the above required MSIVs shall be demonstrated OPERABLE by verifying full closure between 3 and 5 seconds when tested pursuant to Specification 4.0.5.

## CONTAINMENT SYSTEMS

### 3/4.6.3 PRIMARY CONTAINMENT ISOLATION VALVES

#### LIMITING CONDITION FOR OPERATION

3.6.3 The primary containment isolation valves and the reactor instrumentation line excess flow check valves shown in Table 3.6.3-1 shall be OPERABLE with isolation times less than or equal to those shown in Table 3.6.3-1.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

#### ACTION:

- a. With one or more of the primary containment isolation valves shown in Table 3.6.3-1 inoperable, maintain at least one isolation valve OPERABLE in each affected penetration that is open and within 4 hours either:

1. Restore the inoperable valve(s) to OPERABLE status, or
2. Isolate each affected penetration by use of at least one de-activated automatic valve secured in the isolated position,\* or
3. Isolate each affected penetration by use of at least one locked closed manual valve or blank flange.\*

Otherwise, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

- b. With one or more of the reactor instrumentation line excess flow check valves shown in Table 3.6.3-1 inoperable, operation may continue and the provisions of Specifications 3.0.3 and 3.0.4 are not applicable provided that within 4 hours either:

1. The inoperable valve is returned to OPERABLE status, or
2. The instrument line is isolated and the associated instrument is declared inoperable.

Otherwise, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

\* Isolation valves closed to satisfy these requirements may be reopened on an intermittent basis under administrative control.

\*\* This ACTION statement is not applicable for inoperable Reactor Building to suppression chamber vacuum breaker check valves (T23-F450A and B) or isolation valves (T23-F409 and T23-F410). Follow the applicable ACTION statement of Specification 3.6.4.2 if any of these valves become inoperable.

CONTAINMENT SYSTEMS

REACTOR BUILDING - SUPPRESSION CHAMBER VACUUM BREAKERS

SEE INSERT 3.6.4.2

LIMITING CONDITION FOR OPERATION

~~3.6.4.2 All Reactor Building - suppression chamber vacuum breakers shall be OPERABLE and closed.~~

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

ACTION:

a. With one Reactor Building - suppression chamber vacuum breaker valve set inoperable for opening but known to be closed, restore the inoperable vacuum breaker to OPERABLE status within 72 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

~~b. With one Reactor Building - suppression chamber vacuum breaker open, isolate the associated vacuum breaker line by closing the isolation valve within 2 hours; restore the open vacuum breaker to the closed position within 72 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.~~

SEE INSERT b.f.c.

d. With the position indicator of any Reactor Building - suppression chamber vacuum breaker inoperable, restore the inoperable position indicator to OPERABLE status within 14 days or verify the vacuum affected valve breaker to be closed at least once per 24 hours by visual inspection. Otherwise, declare the vacuum breaker inoperable or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

valve set

check valve and air operated isolation valve

SURVEILLANCE REQUIREMENTS

4.6.4.2 Each Reactor Building - suppression chamber vacuum breaker shall be:

a. Verified closed at least once per 7 days.

b. Demonstrated OPERABLE:

1. At least once per 31 days by:

a) Cycling <sup>each valve</sup> vacuum breaker through at least one complete test cycle of full travel. <sub>on each valve</sub>

b) Verifying the position indicator OPERABLE by observing expected valve movement during the cycling test.

2. At least once per 18 months by:

a) Demonstrating that the force required to open each vacuum breaker does not exceed the equivalent of 0.5 psid. <sub>check valve</sub>

b) Visual inspection of each valve. <sub>on each valve</sub>

c) Verifying the position indicator OPERABLE by performance of a CHANNEL CALIBRATION.

d) Verifying the instrument actuation system for each air operated isolation valve auto open control system OPERABLE by performance of a CHANNEL CALIBRATION and verifying the setpoint to be less than or equal to 0.5 psid. 3/4 6-50

INSERT 3.6.4.2

- 3.6.4.2 Two Reactor Building to suppression chamber vacuum breaker valve sets, with each valve set consisting of a self actuating vacuum breaker check valve in series with an air operated vacuum breaker isolation valve, shall be OPERABLE and each valve closed.

INSERT b & c

- b. With one of the valves in one of the Reactor Building to suppression chamber valve sets open, verify the other valve in the affected set to be closed within 2 hours; restore the open valve to the closed position within 72 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
- c. With both valves of a Reactor Building to suppression chamber vacuum breaker valve set open, close at least one valve within 1 hour or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.