

## CONTAINMENT SYSTEMS

### 3/4.6.4 VACUUM RELIEF

#### SUPPRESSION CHAMBER - DRYWELL VACUUM BREAKERS

##### LIMITING CONDITION FOR OPERATION

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3.6.4.1 All suppression chamber - drywell vacuum breakers shall be closed and OPERABLE.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

ACTION:

- a. With one of the above required vacuum breakers 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 or more suppression chamber - drywell vacuum breakers open, close the open vacuum breaker(s) within 2 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
- c. With one of the position indicators of any suppression chamber - drywell vacuum breakers inoperable, verify that all other vacuum breakers are closed within 2 hours and:
  1. Verify the vacuum breaker(s) with the inoperable position indicator to be closed by demonstrating the other indicator to be OPERABLE within 2 hours and at least once per 14 days thereafter, or
  2. Verify the vacuum breaker(s) with the inoperable position indicator to be closed by conducting a test which demonstrates that the drywell-to-suppression chamber  $\Delta P$  is maintained at greater than or equal to 0.5 psi for one hour without makeup within 24 hours and at least once per 14 days thereafter.

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

- d. With one of the closed position indicators of one or more suppression chamber - drywell vacuum breaker(s) indicating open and the redundant closed position indicator indicating closed after a suppression chamber - drywell vacuum breaker opening as a result of a steam release, within 24 hours, cycle the applicable valve(s) to determine which of the redundant indicators is OPERABLE.

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### SURVEILLANCE REQUIREMENTS

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4.6.4.1 Each suppression chamber - drywell vacuum breaker shall be:

- a. Verified closed at least once per 7 days.
- b. Demonstrated OPERABLE:
  1. During each COLD SHUTDOWN, if not performed within the previous 92 days, and within 12 hours after any discharge of steam to the suppression chamber from the safety/relief valves by:
    - a) Cycling each vacuum breaker through at least one complete cycle of full travel.
    - b) Verifying both position indicators OPERABLE by observing expected valve movement during the cycling test.
  2. At least once per 18 months by;
    - a) Verifying the opening setpoint, from the closed position, to be less than or equal to 0.5 psid, and
    - b) Verifying both position indicators OPERABLE by performance of a CHANNEL CALIBRATION.
    - c) Verify the opening gap for switch actuation to be less than or equal to 0.03 inches.