

CONTAINMENT SYSTEMS

3/4.6.3 CONTAINMENT ISOLATION VALVES

LIMITING CONDITION FOR OPERATION

---

---

3.6.3.1 Each containment isolation valve shall be OPERABLE\*.

APPLICABILITY: MODES 1, 2, 3 and 4.

ACTION:

- - - - - GENERAL NOTES - - - - -

1. ACTION a is not applicable to penetration flow paths addressed by ACTION c.
2. ACTION c is only applicable to penetration flow paths with one inoperable containment isolation valve connected to a closed system inside containment.
3. Penetration flow path(s) except for the containment purge supply and exhaust valve flow paths may be unisolated intermittently under administrative controls.
4. Separate ACTION statement entry is allowed for each penetration flow path.
5. Enter applicable ACTION statements for systems made inoperable by containment isolation valves.

- - - - -

- a. With one or more penetration flow paths with one containment isolation valve inoperable, isolate the affected penetration flow path within 4 hours by use of at least one closed and deactivated automatic valve, closed manual valve, blind flange, or check valve with flow through the valve secured; and verify the affected penetration flow path is isolated at least once per 31 days for isolation devices outside containment and prior to entering MODE 4 from MODE 5, if not performed within the previous 92 days, for isolation devices inside containment. Otherwise, be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

---

\* Locked or sealed closed valves, except for the containment purge supply and exhaust valves, may be opened on an intermittent basis under administrative control.

## CONTAINMENT SYSTEMS

### LIMITING CONDITION FOR OPERATION (Continued)

- b. With one or more penetration flow paths with two containment isolation valves inoperable, isolate the affected penetration flow path within 1 hour by use of at least one closed and deactivated automatic valve, closed manual valve, or blind flange. Otherwise, be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
- c. With one or more penetration flow paths with one containment isolation valve inoperable, isolate the affected penetration flow path within 72 hours by use of at least one closed and deactivated automatic valve, closed manual valve, or blind flange; and verify the affected penetration flow path is isolated at least once per 31 days. Otherwise, be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

### SURVEILLANCE REQUIREMENTS

4.6.3.1 Each containment isolation valve shall be demonstrated OPERABLE\*:

- a. By verifying each purge supply and exhaust valve is deactivated in the closed position at least once per 31 days for valves outside containment and prior to entering MODE 4 from MODE 5 if not performed within the previous 92 days for valves inside containment.
- b. By, at least once per 92 days, cycling each weight or spring loaded check valve testable during plant operation, through one complete cycle of full travel and verifying that each check valve remains closed when the differential pressure in the direction of flow is  $< 1.2$  psid and opens when the differential pressure in the direction of flow is  $\geq 1.2$  psid but less than 6.0 psid.
- c. By verifying, at the frequency specified in the Inservice Testing Program, the isolation time of each automatic power operated containment isolation valve that is not locked, sealed, or otherwise secured in position, and required to be closed during accident conditions, is within limits.

---

\* Locked or sealed closed valves, except for the containment purge supply and exhaust valves, may be opened on an intermittent basis under administrative control.

CONTAINMENT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

---

- d. By verifying, at least once per 18 months, each automatic power operated containment isolation valve that is not locked, sealed, or otherwise secured in position, and required to be closed during accident conditions, actuates to the isolation position on an actual or simulated actuation signal.
  
- e. By, at least once per 18 months, cycling each weight or spring loaded check valve not testable during plant operation, through one complete cycle of full travel and verifying that each check valve remains closed when the differential pressure in the direction of flow is  $< 1.2$  psid and opens when the differential pressure in the direction of flow is  $\geq 1.2$  psid but less than 6.0 psid.