

3.9 REFUELING OPERATIONS

3.9.3 Containment Penetrations

LCO 3.9.3 The containment penetrations shall be in the following status:

- a. 1. The equipment hatch closed and held in place by a minimum of four bolts, or
2. The containment outage door is capable of being closed under administrative control;
- b. One door in the emergency air lock is closed;

----- NOTE -----
The emergency air lock temporary closure device can be used in place of an emergency air lock door.

- c. The personnel air lock shall be either:
 1. closed by one personnel air lock door, or
 2. capable of being closed by an OPERABLE personnel air lock door under administrative control.
- d. Each penetration providing direct access from the containment atmosphere to the outside atmosphere either:
 1. closed by a manual or automatic isolation valve, blind flange, or equivalent, or
 2. capable of being closed by an OPERABLE Containment Purge Valve Isolation System.

APPLICABILITY: During CORE ALTERATIONS,
During movement of irradiated fuel assemblies within
containment.

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3.9.4 Shutdown Cooling (SDC) and Coolant Circulation-High Water Level

LCO 3.9.4 One SDC loop shall be OPERABLE and in operation.

----- NOTES-----

1. The required SDC loop may be not in operation for ≤ 1 hour per 8 hour period, provided no operations are permitted that would cause reduction of the Reactor Coolant System boron concentration.
2. The shutdown cooling pumps may be removed from operation during the time required for local leak rate testing of containment penetration number 41 pursuant to the requirements of SR 3.6.1.1 or to permit maintenance on valves located in the common SDC suction line, provided:
 - a. no operations are permitted that would cause a reduction to Reactor Coolant System boron concentration,
 - b. CORE ALTERATIONS are suspended, and
 - c. all containment penetrations are in the status described in LCO 3.9.3.

APPLICABILITY: MODE 6 with the water level ≥ 23 ft above the top of the irradiated fuel assemblies seated in the reactor vessel.