

### 3.9 REFUELING OPERATIONS

#### 3.9.4 Containment Penetrations

LCO 3.9.4 The containment penetrations shall be in the following status:

- a. The equipment hatch closed and held in place by four bolts, or if open, capable of being closed;
- b. One door in the emergency air lock closed and one door in the personnel airlock capable of being closed; and
- c. 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 ventilation isolation valve.

-----NOTE-----  
Penetration flow path(s) providing direct access from the containment atmosphere to the outside atmosphere may be unisolated under administrative controls.  
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APPLICABILITY: During CORE ALTERATIONS,  
During movement of irradiated fuel assemblies within containment.

#### ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more containment penetrations not in required status.	A.1 Suspend CORE ALTERATIONS.	Immediately
	<u>AND</u> A.2 Suspend movement of irradiated fuel assemblies within containment.	Immediately

SURVEILLANCE REQUIREMENTS

SURVEILLANCE		FREQUENCY
SR 3.9.4.1	Verify each required containment penetration is in the required status.	7 days
SR 3.9.4.2	<p>-----NOTE-----</p> <p>Only required for an open equipment hatch</p> <p>-----</p> <p>Verify the capability to install the equipment hatch.</p>	7 days
SR 3.9.4.3	Verify each required containment ventilation isolation valve actuates to the isolation position on an actual or simulated actuation signal.	18 months