

1.1 Definitions

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| CHANNEL CHECK | A CHANNEL CHECK shall be the qualitative assessment, by observation, of channel behavior during operation. This determination shall include, where possible, comparison of the channel indication and status to other indications or status derived from independent instrument channels measuring the same parameter. |
| CHANNEL OPERATIONAL TEST (COT) | A COT shall be the injection of a simulated or actual signal into the channel as close to the sensor as practicable to verify OPERABILITY of all devices in the channel required for channel OPERABILITY. The COT shall include adjustments, as necessary, of the required alarm, interlock, and trip setpoints required for channel OPERABILITY such that the setpoints are within the necessary range and accuracy. The COT may be performed by means of any series of sequential, overlapping, or total channel steps. |
| CORE ALTERATION | CORE ALTERATION shall be the movement of any fuel, sources, or reactivity control components, within the reactor vessel with the vessel head removed and fuel in the vessel. Suspension of CORE ALTERATIONS shall not preclude completion of movement of a component to a safe position. |
| CORE OPERATING LIMITS REPORT (COLR) | The COLR is the unit specific document that provides cycle specific parameter limits for the current reload cycle. These cycle specific parameter limits shall be determined for each reload cycle in accordance with Specification 5.6.5. Plant operation within these limits is addressed in individual Specifications. |
| DOSE EQUIVALENT I-131 | DOSE EQUIVALENT I-131 shall be that concentration of I-131 (microcuries/gram) that alone would produce the same thyroid dose as the quantity and isotopic mixture of I-131, I-132, I-133, I-134, and I-135 actually present. The thyroid dose conversion factors used for this calculation shall be those listed in Table III of TID-14844, AEC, 1962, "Calculation of Distance Factors for Power and Test Reactor Sites" or in NRC Regulatory Guide 1.109, Revision 1, October 1977. |

3.7 PLANT SYSTEMS

3.7.10 Main Control Room/Emergency Switchgear Room (MCR/ESGR) Emergency Ventilation System (EVS)-MODES 1, 2, 3, and 4

LCO 3.7.10 Two MCR/ESGR EVS trains shall be OPERABLE.

----- NOTE -----
The MCR/ESGR boundary may be opened intermittently under administrative control.

APPLICABILITY: MODES 1, 2, 3, and 4.

ACTIONS

| CONDITION | REQUIRED ACTION | COMPLETION TIME |
|---|--|-----------------|
| A. One required MCR/ESGR EVS train inoperable. | A.1 Restore MCR/ESGR EVS train to OPERABLE status. | 7 days |
| B. Two required MCR/ESGR EVS trains inoperable due to inoperable MCR/ESGR boundary. | B.1 Restore MCR/ESGR boundary to OPERABLE status. | 24 hours |
| C. Required Action and associated Completion Time of Condition A or B not met. | C.1 Be in MODE 3. | 6 hours |
| | <u>AND</u> C.2 Be in MODE 5. | 36 hours |
| D. Two required MCR/ESGR EVS trains inoperable for reasons other than Condition B. | D.1 Enter LCO 3.0.3. | Immediately |

SURVEILLANCE REQUIREMENTS

| SURVEILLANCE | | FREQUENCY |
|--------------|--|-------------------------------------|
| SR 3.7.10.1 | Operate each required MCR/ESGR EVS train for ≥ 10 continuous hours with the heaters operating. | 31 days |
| SR 3.7.10.2 | Perform required MCR/ESGR EVS filter testing in accordance with the Ventilation Filter Testing Program (VFTP). | In accordance with VFTP |
| SR 3.7.10.3 | Not Used | |
| SR 3.7.10.4 | Verify each required MCR/ESGR EVS train can maintain a positive pressure of ≥ 0.04 inches water gauge, relative to the adjacent areas, during the pressurization mode of operation at a makeup flow rate of ≥ 900 cfm and ≤ 1100 cfm. | 18 months on a STAGGERED TEST BASIS |

3.7 PLANT SYSTEMS

3.7.13 Main Control Room/Emergency Switchgear Room (MCR/ESGR) Bottled Air System

LCO 3.7.13 Three MCR/ESGR bottled air system trains shall be OPERABLE.

----- NOTE -----
The MCR/ESGR boundary may be opened intermittently under administrative control.

APPLICABILITY: MODES 1, 2, 3, and 4,
During movement of recently irradiated fuel assemblies.

ACTIONS

| CONDITION | REQUIRED ACTION | COMPLETION TIME |
|--|---|-----------------|
| A. One required MCR/ESGR bottled air system train inoperable. | A.1 Restore MCR/ESGR bottled air system train to OPERABLE status. | 7 days |
| B. Two or more required MCR/ESGR bottled air system trains inoperable due to inoperable MCR/ESGR boundary in MODE 1, 2, 3, or 4. | B.1 Restore MCR/ESGR boundary to OPERABLE status. | 24 hours |
| C. Two or more required MCR/ESGR bottled air system trains inoperable in MODE 1, 2, 3, or 4 for reasons other than Condition B. | C.1 Restore at least two MCR/ESGR bottled air system trains to OPERABLE status. | 24 hours |

SURVEILLANCE REQUIREMENTS

| SURVEILLANCE | FREQUENCY |
|---|-------------------------------------|
| SR 3.7.13.4 Verify two required MCR/ESGR bottled air system trains can maintain a positive pressure of ≥ 0.05 inches water gauge, relative to the adjacent areas for at least 60 minutes. | 18 months on a STAGGERED TEST BASIS |

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;
- b. One door in each air lock is 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 purge and exhaust isolation valve.

----- NOTE -----
 Penetration flow path(s) providing direct access from the containment atmosphere to the outside atmosphere may be unisolated under administrative controls.

APPLICABILITY: During movement of recently irradiated fuel assemblies within containment.

ACTIONS

| CONDITION | REQUIRED ACTION | COMPLETION TIME |
|---|---|-----------------|
| A. One or more containment penetrations not in required status. | A.1 Suspend movement of recently irradiated fuel assemblies within containment. | Immediately |