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3.1 DSC INTEGRITY

3.1.1 Leak Testing DSC Vent Housing Seals

LCO 3.1.1 The leak rate of the vent housing seals shall not exceed 1×10^{-2} standard cc/sec.

APPLICABILITY: During STORAGE OPERATIONS.

ACTION

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. The vent housing seal leak rate is exceeded during STORAGE OPERATIONS	A.1 Perform contamination survey at affected DSC-vent housing interfaces. AND A.2.1 Reseat or replace seals. AND A.2.2 Perform leak check on seals.	24 Hours 7 Days 7 Days
B. The vent housing seal leak rate is not restored within 7 days during STORAGE OPERATIONS	B.1 Perform contamination survey at affected DSC-vent housing interfaces. AND B.2 Submit report to NRC describing condition, analysis, and corrective actions being taken.	Monthly 90 Days. Note: LCO 3.0.2 does not apply. This report is required upon entry into Condition B.
C. The vent housing double metallic seals are replaced with double elastomeric seals during STORAGE OPERATIONS	C.1 Submit report to NRC describing condition, analysis, and corrective actions being taken. AND C.2 Replace the elastomeric seals.	90 Days After 5 years in service.

3.1.1 Leak Testing DSC Vent Housing Seals (continued)

SURVEILLANCE REQUIREMENTS

SURVEILLANCE		FREQUENCY
SR 3.1.1.1	Perform leak check of the vent housing double metallic seals on each DSC containing TMI-2 CANISTERs.	7 days after insertion of DSC into HSM. AND Every 5 years during STORAGE OPERATIONS. NOTE: SR 3.0.2 is not applicable.
SR 3.1.1.2	Perform leak check of the vent housing double elastomeric seals on each DSC containing TMI-2 CANISTERs.	Every year during STORAGE OPERATIONS.

3.1 DSC INTEGRITY

3.1.2 DSC Handling and Transport Temperature Limit

LCO 3.1.2 Handling or transporting a DSC containing TMI-2 CANISTERs shall not be performed when DSC temperature is less than 20 degrees F or when the ambient air temperature is less than 0 degrees F.

APPLICABILITY: During TRANSFER OPERATIONS.

ACTION

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Temperature limits not met while DSC is being transported	A.1 Place DSC in a safe condition.	Immediately

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
SR 3.1.2.1 Measure the outside air temperature.	Immediately before commencing TRANSFER OPERATIONS. AND During TRANSFER OPERATIONS.
SR 3.1.2.2 Measure the DSC temperature or the cask temperature.	Immediately before commencing TRANSFER OPERATIONS.

4.0 DESIGN FEATURES

4.1 Storage Features

4.1.1 Storage Capacity

The total storage capacity of the TMI-2 ISFSI is limited to 30 HSMs, 29 which will be loaded, and one extra. Each of 29 HSMs holds a NUHOMS®-12T DSC containing up to 12 TMI-2 CANISTERs.

4.2 Codes and Standards

4.2.1 Dry Shielded Canister

4.2.1.1 Design Exceptions to Codes, Standards, and Criteria

Table 4-1 lists approved exceptions for the design and fabrication of the TMI-2 ISFSI Dry Shielded Canister.

4.2.1.2 Construction/Fabrication Exceptions to Codes, Standards, and Criteria

Proposed alternatives to ASME Code, Section III, 1992 Edition with Addenda through 1993, including exceptions allowed by Section 4.3.1, may be used when authorized by the Director of the Office of Nuclear Material Safety and Safeguards or designee. The licensee should demonstrate that:

1. The proposed alternatives would provide an acceptable level of quality and safety, or
2. Compliance with the specified requirements of ASME Code Section III, 1992 Edition with Addenda through 1993, would result in hardship or unusual difficulty without a compensating increase in the level of quality and safety.

Requests for relief in accordance with this section shall be submitted in accordance with 10 CFR 72.4.

4.2.1.3 DSC top shield plug seal weld (inner cover plate) and top cover plate (outer cover plate) seal welds shall meet the applicable requirements of ASME Boiler and Pressure Vessel Code (B&PVC) Section III, NB-5340 for magnetic particle examination (MT) or NB-5350 for liquid penetrant (PT) examination, prior to commencing transfers to the TMI-2 ISFSI.

4.2.1.4 The leak rate of the vent housing seals shall be conducted in accordance with ANSI N14.5 and shall not exceed 1×10^{-2} standard cc/sec prior to commencing transfers to the TMI-2 ISFSI.

(continued)