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TRM1 - TECHNICAL REQUIREMENTS MANUAL UNIT 1

REMOVE MANUAL TABLE OF CONTENTS DATE: 10/08/2019

ADD MANUAL TABLE OF CONTENTS DATE: 10/17/2019

CATEGORY: DOCUMENTS TYPE: TRM1

ADD
NRR

ID: TEXT 3.10.3

REMOVE: REV:2

ADD: REV: 3

CATEGORY: DOCUMENTS TYPE: TRM1

ID: TEXT B3.10.3

REMOVE: REV:1

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SSS MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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TEXT B3.12.3

0

11/19/2002

Title: LOADS CONTROL PROGRAM BASES LIGHT LOADS REQUIREMENTS

3.10 MISCELLANEOUS

3.10.3 Independent Spent Fuel Storage Installation (ISFSI)

TRO 3.10.3 All loaded Horizontal Storage Modules (HSMs) shall be OPERABLE.

APPLICABILITY: At all times.

ACTIONS

NOTE

The provisions of TRO 3.0.4 are not applicable.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Complete blockage of any HSM air inlet or outlet (front wall and roof birdscreen).	A.1 Clear blockage.	40 hours
B. An HSM otherwise inoperable.	B.1 Initiate actions to restore the HSM to OPERABLE status.	Immediately
C. Concrete temperature > 350°F for more than 24 hours.	C.1 Initiate actions to move the associated DSC to an OPERABLE HSM.	Immediately
	<u>OR</u> C.2 Initiate actions to move the associated DSC to the Cask Storage Pit/Spent Fuel Pool.	Immediately

TECHNICAL REQUIREMENT SURVEILLANCE

-----NOTE-----

Performance of TRS 3.10.3.1 and TRS 3.10.3.2 is dependent upon which Certificate of Compliance Number 1004 Revision the HSM is loaded in accordance with.

SURVEILLANCE		FREQUENCY
TRS 3.10.3.1	Verify Front Wall and Roof Birdscreens, and spaces between loaded HSMs have no debris that can block the air flow.	24 hours
TRS 3.10.3.2	Verify concrete temperature < 350°F for each loaded HSM.	24 hours

B 3.10 MISCELLANEOUS

B 3.10.3 Independent Spent Fuel Storage Installation (ISFSI)

BASES

TRO

The SSES Independent Spent Fuel Storage Installation utilizes the standardized NUHMOS Horizontal Modular System. The standardized NUHMOS system is a horizontal canister system composed of a steel dry shielded canister (DSC) and a reinforced concrete horizontal storage module (HSM). The DSC provides confinement and criticality control for the storage and transfer of irradiated fuel. The HSM houses the DSC and provides for heat removal. An HSM is considered loaded when it houses a DSC containing spent fuel. The HSM is a reinforced concrete unit with penetrations located at the top and bottom of the HSM side walls for air flow. The HSM penetrations are protected from debris intrusions by wire mesh screens during storage operation. Decay heat from the stored fuel bundles is removed by air flow through the penetrations in the HSM. Air enters vents near the bottom of the HSM, circulates and rises around the DSC, and exits through the opening near the top of the HSM. Excessive temperatures can adversely affect the HSM concrete's strength and durability.

The TRO ensures that each HSM has adequate heat removal capability to assure the strength and durability characteristics of each HSM is maintained.

An HSM is considered OPERABLE as long as it meets the requirements of Reference 1. HSMs loaded in accordance with Amendments 0 and 4 require that the air flow-path inlets and outlets are not completely blocked and capable of maintaining concrete temperature < 350°F for HSM OPERABILITY. HSMs loaded in accordance with all other applicable amendments require either that the air flow-path inlets and outlets are not completely blocked or concrete temperature < 350°F for HSM OPERABILITY.

This TRO implements the surveillance requirements required by Reference 1.

ACTIONS

Action A.1 requires that blockage be removed within 40 hours. The 40 hours as delineated in reference 1 is based on a conservative analysis assuming complete blockage of all air inlets and outlets that indicates that the HSM concrete can reach 350°F. 40 hours is also deemed to be sufficient time to restore cooling to the affected HSM.

BASES

ACTIONS
(continued)

Action B.1 is provided to address inoperable conditions of the HSM which are not related to heat removal. Actions to restore the HSM to an OPERABLE condition should start immediately and proceed in a time frame commensurate with the evaluation of the condition.

Actions C.1 and C.2 address excessive temperature conditions that could affect the HSM strength and durability by immediately initiating actions to remove the DSC from the HSM. No time requirement for removal is specified in reference 1, however the vendor recommends the DSC be removed within 60 days. Taking immediate action to move the DSC from the HSM is intended to ensure the DSC is removed within the recommended 60 days.

TRS

The Surveillance Requirements are intended to monitor the parameters that ensure that each HSM has adequate heat removal capability so to assure the strength and durability characteristics of each HSM is maintained. The Surveillance Requirements were obtained from reference 1 attachment A.

Performance of TRS 3.10.3.1 and TRS 3.10.3.2 is dependent upon which Certificate of Compliance Number 1004 Amendment the HSM is loaded in accordance with. Amendments 0 and 4 require that both surveillances be performed. All other applicable Amendments allow for the performance of TRS 3.10.3.1 or TRS 3.10.3.2 to verify thermal performance.

REFERENCES

1. Dry Spent Fuel Storage Cask Certificate Of Compliance Number 1004
 2. Safety Evaluation NL-96-055
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