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TRM2 - TECHNICAL REQUIREMENTS MANUAL UNIT 2

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ADD MANUAL TABLE OF CONTENTS DATE: 06/23/2021

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*ADD
NRR*

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REMOVE: REV:2

ADD: REV: 3

CATEGORY: DOCUMENTS TYPE: TRM2
ID: TEXT B3.8.2.2
REMOVE: REV:1

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SSS MANUAL

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Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

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TEXT B3.8.5 1 11/14/2013

Title: ELECTRICAL POWER BASES DEGRADED VOLTAGE PROTECTION

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Rev. 2

B 3.8 ELECTRICAL POWER

B 3.8.2 Motor Operated Valves (MOV) Thermal Overload Protection

B 3.8.2.2 MOV Thermal Overload Protection – Automatic

BASES

TRO TRO 3.8.2.2 requires that the thermal overload protection for all MOVs in Table 3.8.2.2-1 have automatic bypass capability. The bypassing of the motor operated valve thermal overload protection automatically by integral bypass devices ensures that the thermal overload protection will not prevent safety related valves from performing their function.

The automatic bypass capability is achieved by an OPERABLE bypass device integral with the motor starter.

ACTIONS

The ACTIONS are defined to ensure proper corrective measures are taken in response to the inoperable components.

The ACTIONS have been modified by a Note to clarify the application of Completion Time rules. The Conditions of this TRO may be entered independently for each affected valve. The Completion Time(s) of MOVs with inoperable thermal overload protection bypass capability will be tracked separately for each affected valve starting from the time the Condition was entered for that valve as a result of discovery of inoperable thermal overload protection bypass capability.

A.1, A.2.1 and A.2.2

With one or more MOVs without automatic thermal overload protection bypass capability, administrative action must be taken to restore the bypass capability to OPERABLE status within 8 hours. If this cannot be accomplished within 8 hours, the affected MOVs must have their thermal overload protection continuously bypassed. Alternatively, Required Action A.2.1 requires diesel generator (DG) E to be verified not to be running. In addition, Required Action A.2.2 requires that the affected emergency service water (ESW) flow path be verified as isolated. Any viable means of isolation may be used. The 8 hour Completion Time takes into account low probability of a design basis event occurring during this period.

Rev. 2

BASES

TRS The TRSs are performed at the specified Frequency to ensure that the MOV thermal overload protection automatic bypass capability is maintained OPERABLE.

TRS 3.8.2.2.1

This surveillance requires verification that the automatic thermal overload protection bypass capability is OPERABLE every 60 months. This surveillance is in accordance with Regulatory Guide 1.106 (Ref. 1).

REFERENCES 1. Regulatory Guide 1.106, "Thermal Overload Protection for Electric Motors on Motor Operated Valves," Revision 1, March 1977.

Rev. 3

3.8 ELECTRICAL POWER

3.8.2 Motor Operated Valves (MOV) Thermal Overload Protection

3.8.2.2 MOV Thermal Overload Protection – Automatic

TRO 3.8.2.2 Thermal overload protection for each valve in Table 3.8.2.2-1 shall have automatic bypass capability.

APPLICABILITY: When diesel generator (DG) E is not aligned to the Class 1E distribution system and the valve is open.

ACTIONS

NOTE

Separate condition entry is allowed for each valve.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more MOVs with automatic bypass of thermal overload protection inoperable.	A.1 Continuously bypass the thermal overload protection.	8 hours
	<u>OR</u>	
	A.2.1 Verify DG E is not running.	8 hours
	<u>AND</u>	
	A.2.2 Verify the affected ESW flow path is isolated.	8 hours

TECHNICAL REQUIREMENT SURVEILLANCE

SURVEILLANCE	FREQUENCY
TRS 3.8.2.2.1 Verify automatic bypass of MOV thermal overload protection is OPERABLE.	60 months

Table 3.8.2.2-1
MOV THERMAL OVERLOAD PROTECTION - AUTOMATIC

VALVE NUMBER	SYSTEM AFFECTED
HV-01110E	ESW
HV-01120E	ESW
HV-01112E	ESW
HV-01122E	ESW