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SUSQUEHANNA STEAM ELECTRIC STATION\*  
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TRM1 text LOES  
8/26/04

3.8.2 Motor Operated Valves Thermal Overload Protection

3.8.2.2 Motor Operated Valves (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.	24 months



TABLE 3.8.2.2-1  
MOTOR OPERATED VALVES THERMAL OVERLOAD PROTECTION - AUTOMATIC

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

## B 3.8.2.2 Motor Operated Valves (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.

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

(continued)

B 3.8.2.2 Motor Operated Valves (MOV) Thermal Overload Protection - Automatic

**BASES**

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TRS  
(continued)

TRS 3.8.2.2.1

This surveillance requires verification that the automatic thermal overload protection bypass capability is OPERABLE every 24 months. The 24 month Frequency takes into consideration the infrequent need to exercise the automatic bypass function. This surveillance is in accordance with Regulatory Guide 1.106 (Ref. 1).

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**REFERENCES**

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