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TRM2 - TECHNICAL REQUIREMENTS MANUAL UNIT 2

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Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

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SUSQUEHANNA STEAM ELECTRIC STATION
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3.7 Plant Systems

3.7.6 ESSW Pumphouse Ventilation

TRO 3.7.6 Two ESSW Pumphouse Ventilation Subsystems shall be OPERABLE.

APPLICABILITY: Whenever associated RHRSW and ESW Pumps are required to be OPERABLE.

ACTIONS

NOTES

1. If one or more fans and one or more dampers render ESSW Pumphouse Ventilation Subsystem fan train(s) inoperable, enter both the appropriate Condition for inoperable fan(s) and Condition E.
2. Dampers gagged in the appropriate position may be un-gagged intermittently under administrative controls to allow for work and/or operability testing.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One ESSW Pumphouse Ventilation Subsystem fan train in one or both subsystems inoperable due to an inoperable fan.	A.1 Restore subsystem fan to OPERABLE status.	30 days
B. Two ESSW Pumphouse Ventilation Subsystem fan trains in one or both subsystems inoperable due to inoperable fans.	B.1 Restore inoperable equipment so at least three fans in the subsystem are in OPERABLE status.	7 days
C. Three or more ESSW Pumphouse Ventilation Subsystem fan trains in one subsystem inoperable due to inoperable fans.	C.1 Restore inoperable equipment so at least two fans in the subsystem are in OPERABLE status	36 hours

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
D. Three or more fan trains in both subsystems inoperable due to inoperable fans.	D.1 Declare the associated ESW/RHRSW pumps inoperable.	Immediately
E. One or more ESSW Pumphouse Ventilation Subsystem fan trains in one or both subsystems inoperable due to one or more inoperable dampers.	E.1 Gag the affected fans' dampers in the appropriate position	72 hours
F. Required Action and associated Completion Time of Conditions A, B, C, or E not met.	F.1 Declare the associated ESW/RHRSW pumps inoperable.	Immediately

TECHNICAL REQUIREMENT SURVEILLANCE

SURVEILLANCE	FREQUENCY
TR 3.7.6.1 Verify that the ESSW Pumphouse Ventilation Subsystems fans start and associated dampers automatically position when their associated pump starts.	92 days

B 3.7.6 ESSW Pumphouse Ventilation

BASES

TRO

The ESSW Pumphouse Ventilation System provides heat removal capability to ensure equipment temperature limits are maintained for the ESW pumps and the Unit 1 and Unit 2 RHRSW pumps. These pumps are required to operate to mitigate a design basis event. The ESSW Pumphouse ventilation system consists of two subsystems that provide the primary means to remove heat from the pumphouse. Each subsystem consists of four trains. A train consists of a fan and associated dampers.

Each ventilation subsystem provides cooling for separate divisions of equipment. Each division consists of two ESW pumps, one Unit 1 RHRSW pump and one Unit 2 RHRSW pump. The two ESSW Pumphouse Ventilation Subsystems provide the normal and emergency ventilation for the ESSW pumphouse. (Reference 1)

ACTIONS

The ACTIONS are modified by two Notes. Note 1 directs the entry into both a Condition for an inoperable fan(s) and Condition E for inoperable dampers when both one or more fans and one or more dampers are inoperable. Should the fan(s) and one or more dampers in an ESSW Pumphouse Ventilation Subsystem fan train(s) be inoperable, entry into two Conditions is required.

Note 2 allows a gagged damper to be un-gagged intermittently under administrative controls to allow for work and/or operability testing. These controls consist of stationing a dedicated person capable of installing a gag, who is in communication with the control room, at the damper. In this way, the damper can be re-gagged if the associated ESW/RHRSW pump starts. An exception to the administrative control requirement to have a dedicated person stationed at the damper is when a damper has been repaired and successfully tested for operability but all of the required documentation has not been completed (i.e., functional but not administratively operable). If an inoperable damper remains un-gagged under administrative controls for a period of time greater than allowed by the action statements (i.e., 72 hrs.), the associated ESW/RHRSW pump must be declared inoperable.

The Actions are defined to ensure proper corrective measures are taken in response to inoperable components. The completion times are similar to completion times for the ESW system and are also based on engineering judgement that accounts for the fact that the system is a support system whose function is to maintain the ESSW Pumphouse temperature within limits.

(continued)

B 3.7.6 ESSW Pumphouse Ventilation

BASES

ACTIONS
(continued)

Each subsystem of ESSW pumphouse equipment can maintain acceptable temperatures to meet design basis limits when all ventilation subsystem fan trains are operable. If a fan's associated damper(s) are inoperable, the associated fan subsystem can perform its intended safety function provided the inoperable fan(s) damper(s) are gagged in the appropriate position as determined by Engineering. The gagged damper position ensures that the ambient temperatures will remain within limits thus assuring no degradation of ESSW pumphouse equipment. An inoperable fan reduces the cooling capability of the subsystem thus compromising the subsystem ability to maintain temperatures within design limits.

TRS

The TRSs are defined to be performed at the specified Frequency to ensure that the ESSW Pumphouse Ventilation Systems are maintained OPERABLE.

Verifying the fans are OPERABLE includes ensuring fans and associated dampers have properly functioned when operated to support normal pump operation. This ensures adequate pump heat removal capability.

REFERENCES

1. FSAR Section 9.4.8
 2. Safety Evaluation NL-99-057
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3.7 Plant Systems

3.7.8 Snubbers

TRO 3.7.8 All snubbers shall be OPERABLE

APPLICABILITY: At all times

ACTIONS

-----NOTE-----
Separate condition entry is allowed for each snubber

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>A. -----NOTE----- Required Action A.2 shall be completed if this Condition is entered.</p> <hr/> <p>One or more snubbers inoperable</p>	<p>A.1 Declare the supported system inoperable</p> <p><u>AND</u></p> <p>A.2 Perform an engineering evaluation on the supported component</p> <p><u>OR</u></p> <p>A.3 If an engineering evaluation has been performed on the supported component, replace or restore the inoperable snubber(s) to OPERABLE status</p>	<p>Immediately</p> <p>72 hours</p> <p>72 hours</p>
<p>B. Required Action and associated Completion Time of Condition A not met</p>	<p>B.1 Declare the supported system inoperable</p>	<p>Immediately</p>

(continued)

Actions (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
C Any snubber selected for functional testing either fails to activate or fails to move due to manufacturer or design deficiency.	<p>C. -----NOTE-----</p> <p>This action shall be independent of the Testing Requirements for snubbers not meeting the functional test acceptance criteria per TRS 3.7.8.2</p> <hr/> <p>All snubbers of the same design subject to the same defect shall be functionally tested</p>	Within the current inspection interval.
D. The snubber service life will be exceeded prior to the next scheduled snubber service life review.	<p>D.1 Reevaluate the snubber service life</p> <p><u>OR</u></p> <p>D.2 Replace or recondition the snubber so as to extend its service life beyond the date of the next scheduled service life review</p>	<p>Prior to exceeding snubber service life</p> <p>Prior to exceeding snubber service life</p>

TECHNICAL REQUIREMENT SURVEILLANCE

SURVEILLANCE		FREQUENCY
TRS 3.7.8.1	Demonstrate each snubber OPERABLE by performance of visual inspection	As directed by Table 3.7.8-1
TRS 3.7.8.2	Perform functional test of a representative sampling of all snubbers per Table 3.7.8-3.	24 months

(continued)

TECHNICAL REQUIREMENT SURVEILLANCE (continued)

SURVEILLANCE	FREQUENCY
<p>TRIS 3.7.8.3</p> <p>-----NOTE----- Documentation of critical parts replaced so that the maximum service life is not exceeded shall be retained as required by FSAR 17.2.17.</p> <p>----- Monitor the installation and maintenance records for each snubber to ensure that the service life has not been exceeded and will not be exceeded prior to the next snubber surveillance inspection.</p>	24 months
<p>TRIS 3.7.8.4</p> <p>-----NOTE----- Snubbers tested per this surveillance are in addition to snubbers selected for the sample plan per TRS 3.7.8.2.</p> <p>----- Test snubbers in locations of snubbers that failed the functional test during the previous test period.</p>	At the time of the next functional test.
<p>TRIS 3.7.8.5</p> <p>An inspection shall be performed of all snubbers attached to sections of systems that have experienced unexpected, potentially damaging transients as determined from a review of operational data and a visual inspection of the systems within.</p>	As necessary

Table 3.7.8-1

SNUBBER VISUAL INSPECTION INTERVAL

Number Of Unacceptable Visually Inspected Snubbers in Previous Inspection Interval	Inspection Interval
1. Equal to or less than the applicable number in Table 3.7.8-2 Column A	May be twice the previous interval but not greater than 48 months
2. Equal to or less than the applicable number in Table 3.7.8-2 Column B but greater than the applicable number in Column A	Same as the previous interval
3. Equal to or greater than the applicable number in Table 3.7.8-2 Column C	Two-thirds of the previous interval
4. Less than the applicable number in Table 3.7.8-2 Column C but greater than the applicable number in Column B	<p>Equal to the previous interval (I_{i-1}), reduced proportionally by a factor that is one-third of the ratio of the difference between the number of unacceptable snubbers found during the previous interval (N_{i-1}) and the number in Column B (N_B) to the difference in the numbers in Columns C (N_C) and B, or:</p> $I_i = I_{i-1} - \frac{1}{3} I_{i-1} \left(\frac{N_{i-1} - N_B}{N_C - N_B} \right)$

**TABLE 3.7.8-2
NUMBER OF UNACCEPTABLE SNUBBERS
PREVIOUS SNUBBER VISUAL INSPECTION INTERVAL**

Population	Column A	Column B	Column C
1	0	0	1
80	0	0	2
100	0	1	4
150	0	3	8
200	2	5	13
300	5	12	25
400	8	18	36
500	12	24	48
750	20	40	78
1,000 or greater	29	56	109

NOTES

1. Interpolation between population or category sizes and the number of unacceptable snubbers is permissible. Use next lower integer for the value of the limit for Columns A, B or C if that integer includes a fractional value of unacceptable snubbers as determined by interpolation.
2. The provisions of TRS 3.0.2 are applicable for all inspection intervals up to and including 48 months.

**TABLE 3.7.8-3
REPRESENTATIVE SAMPLING**

SAMPLE	FAILED SNUBBERS	REPRESENTATIVE SAMPLING (a)
1. Initial	0	10%
2. Re-Test	>0 in initial sample	Additional 5% ^(b) for each failure
3. Continued Testing	>0 In Re-test or Continued Testing Samples	Additional 5% for each failure to 100% ^(b)

(a) Percentage of the total population of each type of snubber

(b) An engineering evaluation shall be made of each failure to meet the functional test acceptance criteria to determine the cause of the failure and to determine the OPERABILITY of other snubbers, irrespective of type, which may be subject to the same failure mode. The results of this evaluation shall be used, if applicable, in selecting snubbers to be tested. If additional sampling is required due to failure of only one type of snubber, additional samples should be limited to the type of snubber, which has failed the functional testing.