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ATTENTION: "REPLACE" directions do not affect the Table of Contents, Therefore no TOC will be issued with the updated material.

TRM1 - TECHNICAL REQUIREMENTS MANUAL UNIT 1

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A001

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Manual Name: TRMT

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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SUSQUEHANNA STEAM ELECTRIC STATION
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TRM1 text LOES
8/16/2006

3.7 Plant Systems

3.7.9 Control Structure HVAC

TRO 3.7.9 The following Control Structure HVAC Subsystems shall be OPERABLE:

- a. Control Structure Heating and Ventilating System
- b. Computer Room Floor Cooling System
- c. Control Structure Chilled Water
- d. Battery Room Exhaust System
- e. SGT Equipment Room Ventilation System (Heating)
- f. SGT Equipment Room Ventilation System (Cooling)

APPLICABILITY: MODES 1, 2, and 3,
During movement of irradiated fuel assemblies in the secondary containment.
During CORE ALTERATIONS,
During operations with a potential for draining the reactor vessel (OPDRVs).

-----NOTE-----

1. If Conditions and Required Actions for this TRO that direct entry into LCOs are not completed. LCO 3.0.3 should be entered not TRO 3.0.3.
2. Enter applicable Conditions and Required Actions of LCO 3.7.3 "Control Room Emergency Outside Air Supply (CREOAS) System" and LCO 3.7.4 "Control Room Floor Cooling System" for Technical Specification Functions made inoperable by the inoperable Control Structure HVAC Subsystems.
3. Control Structure and Computer Room Ventilation fans are also governed by LCO 3.7.3 "Control Room Emergency Outside Air Supply (CREOS) System".

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. A single division of subsystems a-e inoperable for its cooling or heating mode.	A.1 Restore all affected subsystems to OPERABLE status	30 days

(continued)

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
B. A single division of subsystem f inoperable	B.1 Restore the affected cooling unit to OPERABLE status	30 days
C. Both divisions of any subsystem inoperable for the cooling or heating mode	C.1 Declare affected equipment inoperable and enter all appropriate LCOs/TROs	Immediately
D. Required Action and associated Completion Time of Condition A, or B not met	D.1 Be in MODE 3 <u>AND</u> D.2 Be in MODE 4	12 hours 36 hours

TECHNICAL REQUIREMENT SURVEILLANCE

SURVEILLANCE	FREQUENCY
TRS 3.7.9.1 Administratively verify that the Control Structure HVAC Subsystems are available	24 hours

3.10 Miscellaneous

3.10.4 Leading Edge Flow Meter (LEFM)

TRO 3.10.4 The Leading Edge Flow Meter (LEFM) shall be OPERABLE and in service.

APPLICABILITY: In MODE 1, at THERMAL POWER greater than 3441 MWt.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. The Leading Edge Flow Meter (LEFM) Inoperable	A.1 Suspend any and all activities related to reactivity increase in the core, including control rod withdrawal and recirculation pump speed/flow increase.	Immediately
	<u>AND</u> A.2 Reduce the indicated THERMAL POWER to less than or equal to 3441 MWt.	6 hours

TECHNICAL REQUIREMENT SURVEILLANCE

SURVEILLANCE		FREQUENCY
TRS 3.10.4.1	Verify that the Leading Edge Flow Meter (LEFM) is OPERABLE and in service.	12 hours

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TEXT 3.7.8 4 08/28/2006
Title: PLANT SYSTEMS SNUBBERS

TEXT 3.7.9 1 08/28/2006
Title: PLANT SYSTEMS CONTROL STRUCTURE HVAC

TEXT 3.7.10 1 12/14/2004
Title: PLANT SYSTEMS SPENT FUEL STORAGE POOLS (SFSPS)

TEXT 3.8.1 2 02/04/2005
Title: ELECTRICAL POWER PRIMARY CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

TEXT 3.8.2.1 1 12/14/2004
Title: ELECTRICAL POWER MOTOR OPERATED VALVES (MOV) THERMAL OVERLOAD PROTECTION - CONTINUOUS

TEXT 3.8.2.2 2 12/14/2004
Title: ELECTRICAL POWER MOTOR OPERATED VALVES (MOV) THERMAL OVERLOAD PROTECTION - AUTOMATIC

TEXT 3.8.3 0 11/19/2002
Title: ELECTRICAL POWER DIESEL GENERATOR (DG) MAINTENANCE ACTIVITIES

TEXT 3.8.4 1 02/04/2005
Title: ELECTRICAL POWER 24 VDC ELECTRICAL SUBSYSTEM

TEXT 3.8.5 0 11/19/2002
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SUSQUEHANNA STEAM ELECTRIC STATION
LIST OF EFFECTIVE SECTIONS (TECHNICAL REQUIREMENTS MANUAL)

PPL Rev. 26

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B 3.11	RADIOACTIVE EFFLUENTS BASES Pages B 3.11-1 through B 3.11-9 Page TRM / B 3.11-10 Pages TRM/B 3.11-11 and TRM/B 3.11-11a Pages TRM/B 3.11-12 and TRM/B 3.11-13 Page TRM / B 3.11-14 Page TRM / B 3.11-15 Pages B 3.11-16 through B 3.11-19 Page TRM / B 3.11-20 Page TRM / B 3.11-20a Pages TRM / B 3.11-21 through TRM / B 3.11-23a Pages TRM / B 3.11-24 and TRM / B 3.11-25 Pages B 3.11-26 through B 3.11-27 Pages TRM / B 3.11-28 and TRM / B 3.11-29 Page TRM / B 3.11-30 Pages B 3.11-31 through B 3.11-35 Page TRM / B 3.11-36	08/31/1998 02/01/1999 04/07/2000 02/01/1999 12/03/2004 02/01/1999 08/31/1998 04/02/2002 04/02/2002 05/13/2005 01/21/2004 08/31/1998 11/30/2005 12/03/2004 08/31/1998 02/12/1999
B.3.12	LOADS CONTROL PROGRAM BASES Pages TRM / B 3.12-1 through TRM / B 3.12-3	02/05/1999

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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 -----
1. Separate condition entry is allowed for each snubber.
 2. The provisions of TRO 3.0.4 are not applicable.
-

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>A. -----NOTE----- Required Action A.2 shall be completed if this Condition is entered. ----- One or more snubbers inoperable</p>	<p>A.1 Declare the supported system inoperable <u>AND</u> A.2 Perform an engineering evaluation on the supported component <u>OR</u> 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 72 hours 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
<p>C. Any snubber selected for functional testing either fails to activate or fails to move due to manufacturer or design deficiency.</p>	<p>C.1 -----NOTE----- This action shall be independent of the Testing Requirements for snubbers not meeting the functional test acceptance criteria per TRS 3.7.8.2 ----- All snubbers of the same design subject to the same defect shall be functionally tested</p>	<p>Within the current inspection interval.</p>
<p>D. The snubber service life will be exceeded prior to the next scheduled snubber service life review.</p>	<p>D.1 Reevaluate the snubber service life <u>OR</u> 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 Prior to exceeding snubber service life</p>

TECHNICAL REQUIREMENT SURVEILLANCE

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

(continued)

TECHNICAL REQUIREMENT SURVEILLANCE (continued)

SURVEILLANCE		FREQUENCY
TRS 3.7.8.3	<p>-----NOTE-----</p> <p>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
TRS 3.7.8.4	<p>-----NOTE-----</p> <p>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.
TRS 3.7.8.5	<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.

3.7 Plant Systems

3.7.9 Control Structure HVAC

TRO 3.7.9 The following Control Structure HVAC Subsystems shall be OPERABLE:

- a. Control Structure Heating and Ventilating System
- b. Computer Room Floor Cooling System
- c. Control Structure Chilled Water
- d. Battery Room Exhaust System
- e. SGT Equipment Room Ventilation System (Heating)
- f. SGT Equipment Room Ventilation System (Cooling)

APPLICABILITY: MODES 1, 2, and 3,
During movement of irradiated fuel assemblies in the secondary containment.
During CORE ALTERATIONS,
During operations with a potential for draining the reactor vessel (OPDRVs).

-----NOTE-----

1. If Conditions and Required Actions for this TRO that direct entry into LCOs are not completed. LCO 3.0.3 should be entered not TRO 3.0.3.
2. Enter applicable Conditions and Required Actions of LCO 3.7.3 "Control Room Emergency Outside Air Supply (CREOAS) System" and LCO 3.7.4 "Control Room Floor Cooling System" for Technical Specification Functions made inoperable by the inoperable Control Structure HVAC Subsystems.
3. Control Structure and Computer Room Ventilation fans are also governed by LCO 3.7.3 "Control Room Emergency Outside Air Supply (CREOAS) System".

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. A single division of subsystems a-e inoperable for its cooling or heating mode	A.1 Restore all affected subsystems to OPERABLE status	30 days

(continued)

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
B. A single division of subsystem inoperable	B.1 Restore the affected cooling unit to OPERABLE status	30 days
C. Both divisions of any subsystem inoperable for the cooling or heating mode	C.1 Declare affected equipment inoperable and enter all appropriate LCOs/TROs	Immediately
D. Required Action and associated Completion Time of Condition A, or B not met	D.1 Be in MODE 3 <u>AND</u> D.2 Be in MODE 4	12 hours 36 hours

TECHNICAL REQUIREMENT SURVEILLANCE

SURVEILLANCE	FREQUENCY
TRS 3.7.9.1 Administratively verify that the Control Structure HVAC Subsystems are available	24 hours

3.10 Miscellaneous

3.10.4 Leading Edge Flow Meter (LEFM)

TRO 3.10.4 The Leading Edge Flow Meter (LEFM) shall be OPERABLE and in service.

APPLICABILITY: In MODE 1, at THERMAL POWER greater than 3441 MWt.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. The Leading Edge Flow Meter (LEFM) Inoperable	A.1 Suspend any and all activities related to reactivity increase in the core, including control rod withdrawal and recirculation pump speed/flow increase.	Immediately
	<u>AND</u> A.2 Reduce the indicated THERMAL POWER to less than or equal to 3441 MWt.	6 hours

TECHNICAL REQUIREMENT SURVEILLANCE

SURVEILLANCE		FREQUENCY
TRS 3.10.4.1	Verify that the Leading Edge Flow Meter (LEFM) is OPERABLE and in service.	12 hours