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TO: GERLACH*ROSEY M 06/18/2018

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

TRM2 - TECHNICAL REQUIREMENTS MANUAL UNIT 2

REMOVE MANUAL TABLE OF CONTENTS DATE: 05/23/2018

ADD MANUAL TABLE OF CONTENTS DATE: 06/15/2018

CATEGORY: DOCUMENTS TYPE: TRM2

ID: TEXT 3.0

ADD: REV: 7

REMOVE: REV:6

*ADD
NRR*

CATEGORY: DOCUMENTS TYPE: TRM2
ID: TEXT LOES
ADD: REV: 97

REMOVE: REV:96

ANY DISCREPANCIES WITH THE MATERIAL PROVIDED, CONTACT DCS @ X3107 OR X3171 FOR ASSISTANCE. UPDATES FOR HARDCOPY MANUALS WILL BE DISTRIBUTED WITHIN 3 DAYS IN ACCORDANCE WITH DEPARTMENT PROCEDURES. PLEASE MAKE ALL CHANGES AND ACKNOWLEDGE COMPLETE IN YOUR NIMS INBOX UPON COMPLETION OF UPDATES. FOR ELECTRONIC MANUAL USERS, ELECTRONICALLY REVIEW THE APPROPRIATE DOCUMENTS AND ACKNOWLEDGE COMPLETE IN YOUR NIMS INBOX.

SSES MANUAL

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

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SUSQUEHANNA STEAM ELECTRIC STATION
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Rev. 97

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3.1.2	Control Rod Drive (CRD) Housing Support	08/31/1998
3.1.3	Control Rod Block Instrumentation	12/15/2017
3.1.4	Control Rod Scram Accumulators Instrumentation and Check Valve	02/18/1999
3.2	CORE OPERATING LIMITS REPORT	
3.2.1	Core Operating Limits Report	03/16/2017
3.3	INSTRUMENTATION	
3.3.1	Radiation Monitoring Instrumentation	07/16/1999
3.3.2	Seismic Monitoring Instrumentation	03/10/2011
3.3.3	Meteorological Monitoring Instrumentation	10/31/2007
3.3.4	TRM Post-Accident Monitoring Instrumentation	07/20/2017
3.3.5	Section Not Used	10/31/2007
3.3.6	TRM Isolation Actuation Instrumentation	04/11/2014
3.3.7	Main Turbine Overspeed Protection System	11/04/2015
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3.3.9	OPRM Instrumentation Configuration	03/27/2007
3.3.10	Reactor Recirculation Pump MG Set Stops	12/03/2004
3.3.11	MVP Isolation Instrumentation	10/22/2003
3.3.12	Water Monitoring Instrumentation	02/19/2015
3.4	REACTOR COOLANT SYSTEM	
3.4.1	Reactor Coolant System Chemistry	03/31/2006
3.4.2	Section Not Used	04/02/2009
3.4.3	High/Low Pressure Interface Leakage Monitors	10/31/2007
3.4.4	Reactor Recirculation Flow and Rod Line Limit	04/17/2009
3.4.5	Reactor Vessel Materials	03/31/2006
3.4.6	Reactor Recirculation Single Loop Operation (SLO) Flow Rate Restriction	04/24/2013

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3.5.2	ECCS and RCIC System Monitoring Instrumentation	10/31/2007
3.5.3	Long Term Nitrogen Supply to ADS	08/31/1998
3.6	CONTAINMENT	
3.6.1	Venting or Purging	08/31/1998
3.6.2	Suppression Chamber-to-Drywell Vacuum Breaker Position Indication	04/16/2014
3.6.3	Suppression Pool Alarm Instrumentation	01/07/2002
3.6.4	Primary Containment Closed System Boundaries	12/31/2002
3.7	PLANT SYSTEMS	
3.7.1	Emergency Service Water System (ESW) Shutdown	07/29/1999
3.7.2	Ultimate Heat Sink (UHS) and Ground Water Level	08/31/1998
3.7.3.1	Fire Suppression Water Supply System	01/26/2017
3.7.3.2	Spray and Sprinkler Systems	04/07/2009
3.7.3.3	CO ₂ Systems	05/09/2016
3.7.3.4	Halon Systems	08/02/1999
3.7.3.5	Fire Hose Station	08/02/1999
3.7.3.6	Yard Fire Hydrants and Hydrant Hose Houses	08/02/1999
3.7.3.7	Fire Rated Assemblies	03/31/2006
3.7.3.8	Fire Detection Instrumentation	12/15/2017
3.7.4	Solid Radwaste System	03/31/2006
3.7.5.1	Main Condenser Offgas Hydrogen Monitor	02/19/2015
3.7.5.2	Main Condenser Offgas Explosive Gas Mixture	08/31/1998
3.7.5.3	Liquid Holdup Tanks	03/31/2006
3.7.6	ESSW Pumphouse Ventilation	05/24/2012
3.7.7	Main Condenser Offgas Pretreatment Logarithmic Radiation Monitoring Instrumentation	09/04/2008
3.7.8	Snubbers	02/19/2015
3.7.9	Control Structure HVAC	08/16/2006
3.7.10	Spent Fuel Storage Pools (SFSPs)	12/03/2004
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3.8.2.2	Motor Operated Valves (MOV) Thermal Overload Protection - Automatic	12/03/2004
3.8.3	Diesel Generator (DG) Maintenance Activities	06/12/2012
3.8.4	24 VDC Electrical Power Subsystem	01/28/2005
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3.10	MISCELLANEOUS	
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3.10.3	Independent Spent Fuel Storage Installation (ISFSI)	06/10/2010
3.11	RADIOACTIVE EFFLUENTS	
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3.11.1.4	Liquid Radwaste Effluent Monitoring Instrumentation	10/09/2012
3.11.1.5	Radioactive Liquid Process Monitoring Instrumentation	02/19/2015
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3.11.2.2	Dose - Noble Gases	03/31/2006
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3.11.2.4	Gaseous Radwaste Treatment System	04/02/2002
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3.11.3	Total Dose	03/31/2006
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B 3.1.2	Control Rod Drive (CRD) Housing Support	08/31/1998
B 3.1.3	Control Rod Block Instrumentation	12/15/2017
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B 3.3.4	TRM Post-Accident Monitoring Instrumentation	07/20/2017
B 3.3.5	Section Not Used	10/31/2007
B 3.3.6	TRM Isolation Actuation Instrumentation	02/21/2014
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B 3.3.9	OPRM Instrumentation	04/17/2009
B 3.3.10	Reactor Recirculation Pump MG Set Stops	02/16/2012
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B 3.5	ECCS AND RCIC BASES	
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B 3.7.4	Solid Radwaste System	02/01/1999
B 3.7.5.1	Main Condenser Offgas Hydrogen Monitor	08/31/1998
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B 3.7.5.3	Liquid Holdup Tanks	08/31/1998
B 3.7.6	ESSW Pumphouse Ventilation	05/29/2013
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B 3.10.1	Sealed Source Contamination	08/31/1998
B 3.10.2	Shutdown Margin Test RPS Instrumentation	03/27/2007
B 3.10.3	Independent Spent Fuel Storage Installation (ISFSI)	08/23/1999
B 3.11	RADIOACTIVE EFFLUENTS BASES	
B 3.11.1.1	Liquid Effluents Concentration	04/28/2016
B 3.11.1.2	Liquid Effluents Dose	08/31/1998
B 3.11.1.3	Liquid Waste Treatment System	08/31/1998
B 3.11.1.4	Liquid Radwaste Effluent Monitoring Instrumentation	08/31/1998
B 3.11.1.5	Radioactive Liquid Process Monitoring Instrumentation	04/07/2000
B 3.11.2.1	Dose Rate	02/01/1999
B 3.11.2.2	Dose - Noble Gases	08/31/1998
B 3.11.2.3	Dose - Iodine, Tritium, and Radionuclides in Particulate Form	08/31/1998
B 3.11.2.4	Gaseous Radwaste Treatment System	04/02/2002
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3.0 TECHNICAL REQUIREMENT FOR OPERATION (TRO) APPLICABILITY

TRO 3.0.1 TROs shall be met during the MODES or other specified conditions in the Applicability, except as provided in TRO 3.0.2.

TRO 3.0.2 Upon discovery of a failure to meet an TRO, the Required Actions of the associated Conditions shall be met, except as provided in TRO 3.0.5 and TRO 3.0.6.

If the TRO is met or is no longer applicable prior to expiration of the specified Completion Time(s), completion of the Required Action(s) is not required, unless otherwise stated.

TRO 3.0.3 When a TRO is not met, and the associated ACTIONS are not met, an associated ACTION is not provided, or if directed by the associated ACTIONS, the following actions shall be taken:

1. Take compensatory actions as warranted for exiting TRO 3.0.3 commensurate with the safety significance of the condition. Development and implementation of the compensatory actions and plan for exit of TRO 3.0.3 shall be pursued without delay and in a controlled manner and shall be documented in the TRO 3.0.3 entry Condition Report.
2. Initiate a TRO 3.0.3 entry Condition Report to document and appropriately evaluate the issue.

When corrective measures are completed that permit operation in accordance with the TRO or the TRO actions, completion of the compensatory actions and plan for exiting TRO 3.0.3 is not required.

TRO 3.0.4 When a TRO is not met, entry into a MODE or other specified condition in the Applicability shall only be made:

- a. When the associated ACTIONS to be entered permit continued operation in the MODE or other specified condition in the Applicability for an unlimited period of time;
- b. After performance of a risk assessment addressing inoperable systems and components, consideration of the results, determination of the acceptability of entering the MODE or other specified condition in the Applicability, and establishment of risk management actions, if appropriate; exceptions to this Requirement are stated in the individual TROs, or
- c. When an allowance is stated in the individual value, parameter, or other Requirement.

(continued)

3.0 TECHNICAL REQUIREMENT FOR OPERATION (TRO) APPLICABILITY

TRO 3.0.4 (continued) This Requirement shall not prevent changes in MODES or other specified conditions in the Applicability that are required to comply with ACTIONS or that are part of a shutdown of the unit.

TRO 3.0.5 Equipment removed from service or declared inoperable to comply with ACTIONS may be returned to service under administrative control solely to perform testing required to demonstrate its OPERABILITY, the OPERABILITY of other equipment or variables to be within limits. This is an exception to TRO 3.0.2 for the system returned to service under administrative control to perform the testing required to demonstrate OPERABILITY.

TRO 3.0.6 When a supported system TRO is not met solely due to a support system TRO or LCO not being met, the Conditions and Required Actions associated with this supported system are not required to be entered. Only the support system TRO or LCO ACTIONS are required to be entered. This is an exception to TRO 3.0.2 for the supported system.

When a support system's Required Action directs a supported system to be declared inoperable or directs entry into Conditions and Required Actions for a supported system, the applicable Conditions and Required Actions shall be entered in accordance with TRO 3.0.2.

3.0 Technical Requirement Surveillance (TRS) Applicability

TRS 3.0.1 TRS shall be met during the MODES or other specified conditions in the Applicability for individual TROs, unless otherwise stated in the TRS. Failure to meet a Surveillance, whether such failure is experienced during the performance of the Surveillance or between performances of the Surveillance, shall be failure to meet the TRO. Failure to perform a Surveillance within the specified Frequency shall be failure to meet the TRO except as provided in TRS 3.0.3. Surveillances do not have to be performed on inoperable equipment or variables outside specified limits.

TRS 3.0.2 The specified Frequency for each TRS is met if the Surveillance is performed within 1.25 times the interval specified in the Frequency, as measured from the previous performance or as measured from the time a specified condition of the Frequency is met.

For Frequencies specified as "once," the above interval extension does not apply.

If a Completion Time requires periodic performance on a "once per . . ." basis, the above Frequency extension applies to each performance after the initial performance.

Exceptions to this Requirement are stated in the individual Requirements.

TRS 3.0.3 If it is discovered that a Surveillance was not performed within its specified Frequency, then compliance with the requirement to declare the TRO not met may be delayed, from the time of discovery, up to 24 hours or up to the limit of the specified Frequency, whichever is greater. In the event it is determined that a Surveillance cannot be performed within its specified Frequency, compliance with the requirement to declare the TRO not met may be delayed, from the expiration of the current Surveillance test interval, up to 24 hours or up to the limit of the specified Frequency, whichever is greater. This delay period is permitted to allow performance of the Surveillance. A risk evaluation shall be performed for any Surveillance delayed greater than 24 hours and the risk impact shall be managed.

(continued)

3.0 Technical Requirement Surveillance (TRS) Applicability

TRS 3.0.3 (continued) If the Surveillance is not performed within the delay period, the TRO must immediately be declared not met, and the applicable Condition(s) must be entered.

When the Surveillance is performed within the delay period and the Surveillance is not met, the TRO must immediately be declared not met, and the applicable Condition(s) must be entered.

Exceptions to this Requirement are stated in the individual Requirements.

TRS 3.0.4 Entry into a MODE or other specified condition in the Applicability of a TRO shall only be made when the TRO's Surveillances have been met within their specified Frequency, except as provided by TRS 3.0.3. When a TRO is not met due to Surveillances not having been met, entry into a MODE or other specified condition in the Applicability shall only be made in accordance with TRO 3.0.4.

This provision shall not prevent entry into MODES or other specified conditions in the Applicability that are required to comply with ACTIONS or that are part of a shutdown of the unit.
