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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 DOC will be issued with the updated material.

TRM1 - TECHNICAL REQUIREMENTS MANUAL UNIT 1

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

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

CATEGORY: DOCUMENTS    TYPE: TRM1

ID:    TEXT 3.0

REMOVE:    REV:5

ADD:        REV: 6

*Add  
NRR*

CATEGORY: DOCUMENTS TYPE: TRM1  
ID: TEXT LOES  
REMOVE: REV:93

ADD: REV: 94

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: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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TEXT 3.3.11	1	10/22/2003	Title: INSTRUMENTATION MVP ISOLATION INSTRUMENTATION
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TEXT 3.7.3.6	2	04/16/2009	Title: PLANT SYSTEMS YARD FIRE HYDRANTS AND HYDRANT HOSE HOUSES
TEXT 3.7.3.7	1	04/26/2006	Title: PLANT SYSTEMS FIRE RATED ASSEMBLIES
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TEXT 3.7.4	1	04/26/2006	Title: PLANT SYSTEMS SOLID RADWASTE SYSTEM

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Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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TEXT 3.8.4                                0        11/18/2002  
Title: ELECTRICAL POWER 24 VDC ELECTRICAL POWER SUBSYSTEM

TEXT 3.8.5                                1        11/14/2013  
Title: ELECTRICAL POWER DEGRADED VOLTAGE PROTECTION

TEXT 3.8.6                                1        12/08/2011  
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Title: REFUELING OPERATIONS COMMUNICATIONS

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TEXT 3.10.4                               2        04/17/2008  
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Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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Title: RADIOACTIVE EFFLUENTS LIQUID EFFLUENTS CONCENTRATION

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Title: RADIOACTIVE EFFLUENTS DOSE - NOBLE GASES

TEXT 3.11.2.3 1 04/26/2006  
Title: RADIOACTIVE EFFLUENTS DOSE - IODINE, TRITIUM, AND RADIONUCLIDES IN PARTICULATE FORM

TEXT 3.11.2.4 0 11/18/2002  
Title: RADIOACTIVE EFFLUENTS GASEOUS RADWASTE TREATMENT SYSTEM

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Title: RADIOACTIVE EFFLUENTS VENTILATION EXHAUST TREATMENT SYSTEM

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Title: ADMINISTRATIVE CONTROLS RADIATION PROTECTION PROGRAM		

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Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT 4.7 0 08/31/1998

Title: ADMINISTRATIVE CONTROLS TRAINING

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Title: APPLICABILITY BASES TECHNICAL REQUIREMENT FOR OPERATION (TRO) APPLICABILITY

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Title: REACTIVITY CONTROL SYSTEMS BASES ANTICIPATED TRANSIENT WITHOUT SCRAM ALTERNATE ROD INJECTION (ATWS-ARI) INSTRUMENTATION

TEXT B3.1.2 0 11/19/2002

Title: REACTIVITY CONTROL SYSTEMS BASES CONTROL ROD DRIVE (CRD) HOUSING SUPPORT

TEXT B3.1.3 4 12/18/2017

Title: REACTIVITY CONTROL SYSTEMS BASES CONTROL ROD BLOCK INSTRUMENTATION

TEXT B3.1.4 0 11/19/2002

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Title: INSTRUMENTATION BASES SEISMIC MONITORING INSTRUMENTATION

TEXT B3.3.3 3 12/18/2008

Title: INSTRUMENTATION BASES METEOROLOGICAL MONITORING INSTRUMENTATION

TEXT B3.3.4 7 06/29/2017

Title: INSTRUMENTATION BASES TRM POST ACCIDENT MONITORING (PAM) INSTRUMENTATION

TEXT B3.3.5 2 11/09/2007

Title: INTENTIONALLY LEFT BLANK

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TEXT B3.3.7	2	11/10/2015	Title: INSTRUMENTATION BASES MAIN TURBINE OVERSPEED PROTECTION SYSTEM
TEXT B3.3.8	1	10/22/2003	Title: INTENTIONALLY LEFT BLANK
TEXT B3.3.9	3	04/17/2008	Title: OPRM INSTRUMENTATION
TEXT B3.3.10	3	08/09/2010	Title: INSTRUMENTATION BASES REACTOR RECIRCULATION PUMP MG SET STOPS
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TEXT B3.4.3	1	11/09/2007	Title: REACTOR COOLANT SYSTEM BASES HIGH/LOW PRESSURE INTERFACE LEAKAGE MONITOR
TEXT B3.4.4	0	11/19/2002	Title: REACTOR COOLANT SYSTEM BASES REACTOR RECIRCULATION FLOW AND ROD LINE LIMIT
TEXT B3.4.5	0	11/19/2002	Title: REACTOR COOLANT SYSTEM BASES REACTOR VESSEL MATERIALS



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TEXT B3.7.3.3 0 11/19/2002

Title: PLANT SYSTEMS BASES CO2 SYSTEMS

TEXT B3.7.3.4 3 04/29/2014

Title: PLANT SYSTEMS BASES HALON SYSTEMS

TEXT B3.7.3.5 1 04/26/2006

Title: PLANT SYSTEMS BASES FIRE HOSE STATIONS

TEXT B3.7.3.6 1 04/26/2006

Title: PLANT SYSTEMS BASES YARD FIRE HYDRANTS AND HYDRANT HOSE HOUSES

TEXT B3.7.3.7 0 11/19/2002

Title: PLANT SYSTEMS BASES FIRE RATED ASSEMBLIES

TEXT B3.7.3.8 3 09/27/2012

Title: PLANT SYSTEMS BASES FIRE DETECTION INSTRUMENTATION

TEXT B3.7.4 0 11/19/2002

Title: PLANT SYSTEMS BASES SOLID RADWASTE SYSTEM

TEXT B3.7.5.1 0 11/19/2002

Title: PLANT SYSTEMS BASES MAIN CONDENSER OFFGAS HYDROGEN MONITOR

TEXT B3.7.5.2 0 11/19/2002

Title: PLANT SYSTEMS BASES MAIN CONDENSER OFFGAS EXPLOSIVE GAS MIXTURE

TEXT B3.7.5.3 0 11/19/2002

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TEXT B3.7.6 4 06/04/2013

Title: PLANT SYSTEMS BASES ESSW PUMPHOUSE VENTILATION

TEXT B3.7.7 2 01/31/2008

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Title: PLANT SYSTEMS BASES CONTROL STRUCTURE HVAC

TEXT B3.7.10 1 12/14/2004

Title: PLANT SYSTEMS BASES SPENT FUEL STORAGE POOLS

TEXT B3.7.11 1 04/14/2010

Title: STRUCTURAL INTEGRITY

TEXT B3.8.1 2 03/10/2010

Title: ELECTRICAL POWER BASES PRIMARY CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

TEXT B3.8.2.1 0 11/19/2002

Title: ELECTRICAL POWER BASES MOTOR OPERATED VALVES (MOV) THERMAL OVERLOAD PROTECTION - CONTINUOUS

TEXT B3.8.2.2 1 09/17/2004

Title: ELECTRICAL POWER BASES MOTOR OPERATED VALVES (MOV) THERMAL OVERLOAD PROTECTION - AUTOMATIC

TEXT B3.8.3 0 11/19/2002

Title: ELECTRICAL POWER BASES DIESEL GENERATOR (DG) MAINTENANCE ACTIVITIES

TEXT B3.8.4 0 11/19/2002

Title: ELECTRICAL POWER BASES 24 VDC ELECTRICAL POWER SUBSYSTEM

TEXT B3.8.5 1 11/14/2013

Title: ELECTRICAL POWER BASES DEGRADED VOLTAGE PROTECTION

TEXT B3.8.6 2 12/08/2011

Title: ELECTRICAL POWER BASES EMERGENCY SWITCHGEAR ROOM COOLING

TEXT B3.8.7 2 06/04/2013

Title: BATTERY MAINTENANCE AND MONITORING PROGRAM

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Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT B3.9.1	0	11/19/2002	Title: REFUELING OPERATIONS BASES DECAY TIME
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TEXT B3.9.3	0	11/19/2002	Title: REFUELING OPERATIONS BASES REFUELING PLATFORM
TEXT B3.10.1	0	11/19/2002	Title: MISCELLANEOUS BASES SEALED SOURCE CONTAMINATION
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TEXT B3.11.1.1	0	11/19/2002	Title: RADIOACTIVE EFFLUENTS BASES LIQUID EFFLUENTS CONCENTRATION
TEXT B3.11.1.2	0	11/19/2002	Title: RADIOACTIVE EFFLUENTS BASES LIQUID EFFLUENTS DOSE
TEXT B3.11.1.3	0	11/19/2002	Title: RADIOACTIVE EFFLUENTS BASES LIQUID WASTE TREATMENT SYSTEM
TEXT B3.11.1.4	0	11/19/2002	Title: RADIOACTIVE EFFLUENTS BASES LIQUID RADWASTE EFFLUENT MONITORING INSTRUMENTATION
TEXT B3.11.1.5	0	11/19/2002	Title: RADIOACTIVE EFFLUENTS BASES RADIOACTIVE LIQUID PROCESS MONITORING INSTRUMENTATION



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TEXT B3.11.2.2	0	11/19/2002	Title: RADIOACTIVE EFFLUENTS BASES DOSE - NOBLE GASES
TEXT B3.11.2.3	0	11/19/2002	Title: RADIOACTIVE EFFLUENTS BASES DOSE - IODINE, TRITIUM, AND RADIONUCLIDES IN PARTICULATES FORM
TEXT B3.11.2.4	0	11/19/2002	Title: RADIOACTIVE EFFLUENTS BASES GASEOUS RADWASTE TREATMENT SYSTEM
TEXT B3.11.2.5	5	07/03/2013	Title: RADIOACTIVE EFFLUENTS BASES VENTILATION EXHAUST TREATMENT SYSTEM
TEXT B3.11.2.6	2	09/08/2016	Title: RADIOACTIVE EFFLUENTS BASES RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION
TEXT B3.11.3	0	11/19/2002	Title: RADIOACTIVE EFFLUENTS BASES TOTAL DOSE
TEXT B3.11.4.1	5	03/05/2015	Title: RADIOACTIVE EFFLUENTS BASES MONITORING PROGRAM
TEXT B3.11.4.2	0	11/19/2002	Title: RADIOACTIVE EFFLUENTS BASES LAND USE CENSUS
TEXT B3.11.4.3	0	11/19/2002	Title: RADIOACTIVE EFFLUENTS BASES INTERLABORATORY COMPARISON PROGRAM
TEXT B3.12.1	1	10/04/2007	Title: LOADS CONTROL PROGRAM BASES CRANE TRAVEL-SPENT FUEL STORAGE POOL
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Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT B3.12.3

0 11/19/2002

Title: LOADS CONTROL PROGRAM BASES LIGHT LOADS REQUIREMENTS

SUSQUEHANNA STEAM ELECTRIC STATION  
**LIST OF EFFECTIVE SECTIONS (TECHNICAL REQUIREMENTS MANUAL)**

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3.0 TECHNICAL REQUIREMENT FOR OPERATION (TRO) APPLICABILITY

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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.

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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.

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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.

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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;

(continued)

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### 3.0 TECHNICAL REQUIREMENT FOR OPERATION (TRO) APPLICABILITY

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TRO 3.0.4 (continued) 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.

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.

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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.

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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.

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### 3.0 Technical Requirement Surveillance (TRS) Applicability

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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.

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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.

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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)

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### 3.0 Technical Requirement Surveillance (TRS) Applicability

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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.

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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.

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