

MANUAL HARD COPY DISTRIBUTION

DOCUMENT TRANSMITTAL 2002-51394

USER INFORMATION:

~~FLAIM*LAUREL B~~ EMPL#:23244 CA#: 0363

~~Address: NUCSA2~~

Phone#: 254-3658

TRANSMITTAL INFORMATION:

~~TO: FLAIM*LAUREL B~~ 11/19/2002
LOCATION: USNRC
FROM: NUCLEAR RECORDS DOCUMENT CONTROL CENTER
(NUCSA-2)

THE FOLLOWING CHANGES HAVE OCCURRED TO THE HARDCOPY OR ELECTRONIC MANUAL ASSIGNED TO YOU:

- TRM2 - TECHNICAL REQUIREMENTS MANUAL UNIT 2
- REMOVE MANUAL TABLE OF CONTENTS DATE: 10/29/2002
- ADD MANUAL TABLE OF CONTENTS DATE: 11/18/2002
- CATEGORY: DOCUMENTS TYPE: TRM
- ID: TRM2
- REPLACE: REV:N/A

UPDATES FOR HARD COPY MANUALS WILL BE DISTRIBUTED WITHIN 5 DAYS IN ACCORDANCE WITH DEPARTMENT PROCEDURES. PLEASE MAKE ALL CHANGES AND ACKNOWLEDGE COMPLETE IN YOUR NIMS INBOX UPON RECEIPT OF HARD COPY. FOR ELECTRONIC MANUAL USERS, ELECTRONICALLY REVIEW THE APPROPRIATE DOCUMENTS AND ACKNOWLEDGE COMPLETE IN YOUR NIMS INBOX.

A007

TRM

APPROVED AMENDMENT TO UNIT 2 TECHNICAL REQUIREMENTS MANUAL

EFFECTIVE DATE N/A
CORRECTION

Replace the following pages of the Technical Requirements Manual with the enclosed pages. The revised pages are identified by Effective Date and contain vertical lines indicating the area of change.

REMOVE PAGES	INSERT PAGES	EFFECTIVE DATE
TRM / LOES-1 through TRM / LOES-6	TRM / LOES-1 through TRM / LOES-6	10/05/2002
1.0-1	1.0-1	08/31/1998
1.0-2	TRM / 1.0-2	10/04/2002
1.0-3	1.0-3	08/31/1998
TRM / 2.0-9	TRM / 2.0-9	09/06/2002

NOTE: This is a reissuance of the changes distributed on 10/30/2002. The previous transmittal did not contain the latest List of Effective Sections (LOES). It also removed 2 pages that should not have been removed. The previous transmittal was a combination of TRM changes issued on 09/06/2002 and 10/04/2002. A transmittal dated 10/05/2002 had already been incorporated in the TRM. That transmittal's LOES already contained the revised date for the pages in the 10/30/2002 transmittal. The 10/30/2002 transmittal should not have contained a LOES.

This transmittal incorporates the latest pages. The LOES does not contain rev. bars for the attached pages since the LOES is for a transmittal that incorporated a later revision into the TRM.

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

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
TOC	TABLE OF CONTENTS	04/02/2002
1.0	USE AND APPLICATION	
	Page TRM / 1.0-1	08/31/1998
	Page TRM / 1.0-2	10/04/2002
	Page TRM / 1.0-3	08/31/1998
2.0	PLANT PROGRAMS	
	Page 2.0-1	08/31/1998
	Pages TRM / 2.0-2 through TRM / 2.0-4	06/25/2002
	Pages TRM / 2.0-5 through TRM / 2.0-7	04/12/1999
	Page TRM / 2.0-8	08/30/2001
	Page TRM / 2.0-9	09/06/2002
	Pages TRM / 2.0-10 through TRM / 2.0-12	04/12/1999
	Page TRM / 2.0-13	06/16/2000
3.0	APPLICABILITY	
	Pages TRM / 3.0-1 and TRM / 3.0-2	04/08/1999
	Page TRM / 3.0-3	03/15/2002
	Page TRM / 3.0-4	04/08/1999
3.1	REACTIVITY CONTROL SYSTEMS	
	Pages 3.1-1 through 3.1-6	08/31/1998
	Pages TRM / 3.1-7 and TRM / 3.1-8	06/05/2002
	Pages TRM / 3.1-9 and TRM / 3.1-9a	02/18/1999
	Page TRM / 3.1-10	02/18/1999
	Pages 3.1-11 through 3.1-13	08/31/1998
3.2	CORE OPERATING LIMITS REPORT	
	Page 3.2-1	08/31/1998
	Pages TRM / 3.2-2 through TRM / 3.2-28	03/26/2001
3.3	INSTRUMENTATION	
	Pages TRM / 3.3-1 through TRM / 3.3-3	07/16/1999
	Page TRM / 3.3-4	11/28/2000
	Pages 3.3-5 through 3.3-8	08/31/1998
	Pages TRM / 3.3-9 and TRM / 3.3-9a	12/17/1998
	Pages TRM / 3.3-10 and TRM / 3.3-11	12/17/1998
	Page TRM / 3.3-12	03/30/2001
	Pages TRM / 3.3-13 through TRM / 3.3-15	12/14/1998
	Page TRM / 3.3-16	06/27/2001
	Pages TRM / 3.3-17 and TRM / 3.3-18	06/14/2002
	Pages TRM / 3.3-19 through TRM / 3.3-20	12/14/1998
	Pages 3.3-21 and 3.3-22	08/31/1998
	Pages TRM / 3.3-23 through TRM / 3.3-25	04/02/1999

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

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
3.4	REACTOR COOLANT SYSTEM Pages 3.4-1 through 3.4-5 Pages 3.4-6 through 3.4-13	10/23/1998 08/31/1998
3.5	EMERGENCY CORE COOLING AND RCIC Pages 3.5-1 through 3.5-3 Page TRM / 3.5-4 Pages 3.5-5 through 3.5-7	08/31/1998 04/17/2000 08/31/1998
3.6	CONTAINMENT Pages 3.6-1 through 3.6-4 Page TRM / 3.6-5 Page 3.6-6 Pages TRM / 3.6-7 through TRM / 3.6-8 Page TRM / 3.6-9	08/31/1998 01/07/2002 08/31/1998 07/06/2000 02/12/1999
3.7	PLANT SYSTEMS Pages TRM / 3.7-1 and TRM / 3.7-2 Page 3.7-3 Pages TRM / 3.7-4 through TRM / 3.7-10 Page TRM / 3.7-11 Pages TRM / 3.7-12 through TRM / 3.7-27 Pages TRM / 3.7-28 through TRM / 3.7-32 Page TRM / 3.7-33 Pages TRM / 3.7-34 through TRM / 3.7-36 Pages 3.7-37 through 3.7-39 Pages TRM / 3.7-40 and TRM / 3.7-40a Pages 3.7-41 and 3.7-42 Pages 3.7-43 through 3.7-48 Pages TRM / 3.7-49 and TRM / 3.7-50 Page TRM / 3.7-51 Pages TRM / 3.7-52 and TRM / 3.7-53	07/29/1999 08/31/1998 08/02/1999 01/21/2000 08/02/1999 11/16/2001 10/05/2002 02/01/1999 08/31/1998 08/11/2000 08/31/1998 10/13/1998 03/09/2001 07/05/2000 07/29/1999
3.8	ELECTRICAL POWER Pages TRM / 3.8-1 and TRM / 3.8-2 Pages 3.8-3 and 3.8-4 Pages TRM / 3.8-5 and TRM / 3.8-6 Pages TRM / 3.8-7 through TRM / 3.8-8 Page TRM / 3.8-9 Page 3.8-10 Page TRM / 3.8-11 Page TRM / 3.8-11a Pages 3.8-12 through 3.8-14 Pages TRM / 3.8-15 through TRM / 3.8-17 Page 3.8-18 Page TRM / 3.8-19	04/02/2002 08/31/1998 04/02/2002 08/31/1998 08/24/2001 08/31/1998 04/02/2002 04/02/2002 08/31/1998 04/02/2002 02/01/1999 04/02/2002

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

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
	Page TRM / 3.8-20	02/01/1999
	Pages TRM / 3.8-21 through TRM / 3.8-23	06/06/1999
	Pages 3.8-24 and 3.8-25	08/31/1998
3.9	REFUELING OPERATIONS Pages 3.9-1 through 3.9-3	08/31/1998
3.10	MISCELLANEOUS Pages 3.10-1 through 3.10-4	08/30/1998
	Page TRM / 3.10-5	09/13/2002
	Page TRM / 3.10-6	06/05/2002
	Page TRM / 3.10-7	04/07/2000
	Page TRM / 3.10-8	corrected 04/17/2002
3.11	RADIOACTIVE EFFLUENTS Pages 3.11-1 through 3.11-12	08/31/1998
	Pages 3.11-13 through 3.11-16	09/01/1998
	Pages 3.11-17 through 3.11-21	08/31/1998
	Pages TRM / 3.11-22 through TRM / 3.11-24	04/02/2002
	Pages 3.11-25 through 3.11-32	09/01/1998
	Pages 3.11-33 through 3.11-47	08/31/1998
3.12	LOADS CONTROL PROGRAM Pages TRM / 3.12-1 through TRM / 3.12-5	02/05/1999
4.0	ADMINISTRATIVE CONTROLS Pages 4.0-1 through 4.0-8	08/31/1998

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

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
B 3.0	APPLICABILITY BASES Pages B 3.0-1 through B 3.0-10 Pages TRM / B 3.0-11 through TRM / B 3.0-15	08/31/1998 03/15/2002
B 3.1	REACTIVITY CONTROL SYSTEMS BASES Pages TRM / B 3.1-1 through TRM / B 3.1-3 Page B 3.1-4 Pages TRM / B 3.1-5 through TRM / B 3.1-7 Page TRM / B 3.1-8 Pages B 3.1-9 and B 3.1-10	07/13/1999 08/31/1998 07/13/1999 02/18/1999 08/31/1998
B 3.2	CORE OPERATING LIMITS BASES Page B 3.2-1	08/31/1998
B 3.3	INSTRUMENTATION BASES Page TRM/B 3.3-1 Page B 3.3-2 Pages TRM/B 3.3-3 and TRM / B 3.3-3A Page TRM / B 3.3-4 Pages TRM / B 3.3-5 and TRM / B 3.3-5a Page TRM / B 3.3-6 Pages TRM / B 3.3-7 through TRM / B 3.3-9 Pages B 3.3-10 through B 3.3-13 Page TRM / B 3.3-14 Page TRM / B 3.3-14a Page TRM / B 3.3-14b Page B 3.3-15 Page TRM/B 3.3-16 Pages B 3.3-17 through B 3.3-20 Pages TRM / B 3.3-21 through TRM / B 3.3-23	04/07/2000 08/31/1998 12/29/2000 01/07/2002 12/17/1998 12/17/1998 03/30/2001 08/31/1998 06/25/2002 06/14/2002 06/14/2002 08/31/1998 04/07/2000 08/31/1998 04/02/1999
B 3.4	REACTOR COOLANT SYSTEM BASES Pages B 3.4-1 through B 3.4-4 Page TRM / B 3.4-5 Page B 3.4-6	08/31/1998 10/15/1999 08/31/1998
B 3.5	ECCS AND RCIC BASES Pages B 3.5-1 through B 3.5-5	08/31/1998
B 3.6	CONTAINMENT BASES Page TRM / B 3.6-1 Page TRM / B 3.6-2 Page B 3.6-3 Page TRM / B 3.6-4 Page TRM / B 3.6-5 Pages TRM / B 3.6-6 through TRM / B 3.6-9	07/26/2001 02/01/1999 08/31/1998 09/23/1999 01/07/2002 05/25/2001

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

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
B 3.7	PLANT SYSTEMS BASES	
	Pages B 3.7-1 and B 3.7-2	08/31/1998
	Pages TRM / B 3.7-3 through TRM / B 3.7-7	08/02/1999
	Page TRM / B 3.7-7a	08/02/1999
	Pages TRM / B 3.7-8 through TRM / B 3.7-10	08/02/1999
	Page TRM / B 3.7-10a	08/02/1999
	Pages TRM / B 3.7-11 through TRM / B 3.7-14	08/02/1999
	Page TRM / B 3.7-14a	08/02/1999
	Pages TRM / B 3.7-15 and TRM / B 3.7-16	02/01/1999
	Pages B 3.7-17 through B 3.7-20	08/31/1998
	Pages TRM / B 3.7-21 through TRM/B 3.7-21a	05/11/2001
	Pages TRM/B 3.7-22 and TRM/B 3.7-23	04/07/2000
	Pages B 3.7-24 through B 3.7-30	08/31/1998
	Pages TRM / B 3.7-31 and TRM / B 3.7-32	03/09/2001
	Page TRM / B 3.7-33	07/29/1999
	Pages TRM / B 3.7-34 and TRM / B 3.7-35	07/05/2000
B 3.8	ELECTRICAL POWER BASES	
	Pages TRM / B 3.8-1 and TRM / B 3.8-2	04/02/2002
	Page TRM / B 3.8-2a	04/02/2002
	Page TRM / B 3.8-3	04/02/2002
	Page TRM / B 3.8-3a	04/02/2002
	Page TRM / B 3.8-4	04/02/2002
	Page TRM / B 3.8-4a	04/02/2002
	Page TRM / B 3.8-5	08/31/1998
	Pages TRM / B 3.8-6 through TRM / B 3.8-17	04/02/2002
B.3.9	REFUELING OPERATIONS BASES	
	Pages B 3.9-1 and B 3.9-2	08/31/1998
	Pages B 3.9-3 through B 3.9-7	10/23/1998
B 3.10	MISCELLANEOUS BASES	
	Pages B 3.10-1 through B 3.10-2	08/31/1998
	Page TRM / B 3.10-3	09/13/2002
	Pages TRM / B 3.10-4 and TRM / B 3.10-5	08/23/1999
	Pages TRM / B 3.10-6 and TRM / 3.10-7	04/17/2002
B 3.11	RADIOACTIVE EFFLUENTS BASES	
	Pages B 3.11-1 through B 3.11-9	08/31/1998
	Pages TRM / B 3.11-10	02/01/1999
	Pages TRM/B 3.11-11 and TRM/B 3.11-11a	04/07/2000
	Pages TRM/B 3.11-12 and TRM/B 3.11-13	02/01/1999
	Page TRM / B 3.11-14	11/01/1999
	Page TRM / B 3.11-15	02/01/1999
	Pages B 3.11-16 through B 3.11-19	08/31/1998

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

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
	Page TRM / B 3.11-20	04/02/2002
	Page TRM / B 3.11-20a	04/02/2002
	Pages TRM / B 3.11-21 through TRM / B 3.11-23	04/02/2002
	Page TRM / B 3.11-23a	04/02/2002
	Page B 3.11-24	08/31/1998
	Page TRM / B 3.11-25	11/01/1999
	Pages B 3.11-26 through TRM / B 3.11-35	08/31/1998
	Pages TRM / B 3.11-36	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

1.0 USE AND APPLICATION

1.1 Definitions

-----NOTE-----

1. The defined terms of this section and the Technical Specifications appear in capitalized type and are applicable throughout these Technical Requirements and Bases.
 2. Terms used in these Technical Requirements are as defined in the Technical Specifications or as defined below.
-

Term

Definition

GASEOUS RADWASTE TREATMENT SYSTEM

A GASEOUS RADWASTE TREATMENT SYSTEM shall be any system designed and installed to reduce radioactive gaseous effluents by collecting primary coolant system offgases from the primary system and providing for delay or holdup for the purpose of reducing the total radioactivity prior to release to the environment.

MEMBERS OF THE PUBLIC

MEMBER(S) OF THE PUBLIC shall include all persons who are not occupationally associated with the plant. This category does not include employees of the utility, its contractors or vendors. Also excluded from this category are persons who enter the site to service equipment or to make deliveries. This category does include persons who use portions of the site for recreational, occupational or other purposes not associated with the plant.

PROCESS CONTROL PROGRAM

The PROCESS CONTROL PROGRAM (PCP) shall contain the sampling, analysis, and formulation determination by which SOLIDIFICATION of radioactive wastes from liquid systems is assured.

PURGE - PURGING

PURGE or PURGING shall be the controlled process of discharging air or gas from a confinement to maintain temperature, pressure, humidity, concentration or other operating condition, in such a manner that replacement air or gas is required to purify the confinement.

(continued)

1.0 USE AND APPLICATION

1.1 Definitions (continued)

SITE BOUNDARY	The SITE BOUNDARY shall be that line beyond which the land is not owned, leased, or otherwise controlled by the licensee. See FSAR Section 2.1.1.2.
SOLIDIFICATION	SOLIDIFICATION shall be the conversion of radioactive wastes from liquid systems to a homogeneous (uniformly distributed), monolithic, immobilized solid with definite volume and shape, bounded by a stable surface of distinct outline on all sides (free-standing).
SOURCE CHECK	A SOURCE CHECK shall be the qualitative assessment of channel response when the channel sensor is exposed to a radioactive source.
UNRESTRICTED AREA	An UNRESTRICTED AREA shall be any area at or beyond the SITE BOUNDARY access to which is not controlled by the licensee for purposes of protection of individuals from exposure to radiation and radioactive materials, or any area within the site boundary used for residential quarters or for industrial, commercial, institutional, and/or recreational purposes. See FSAR Section 2.1.1.3.
VENTILATION EXHAUST TREATMENT SYSTEM	A VENTILATION EXHAUST TREATMENT SYSTEM shall be any system designed and installed to reduce gaseous radioiodine or radioactive material in particulate form in effluents by passing ventilation or vent exhaust gases through charcoal adsorbers and/or HEPA filters for the purpose of removing iodines or particulates from the gaseous exhaust stream prior to the release to the environment (such a system is not considered to have any effect on noble gas effluents). Engineered Safety Feature (ESF) atmospheric cleanup systems are not considered to be VENTILATION EXHAUST TREATMENT SYSTEM components.

(continued)

1.0 USE AND APPLICATION

1.1 Definitions (continued)

VENTING

VENTING shall be the controlled process of discharging air or gas from a confinement to maintain temperature, pressure, humidity, concentration or other operating condition, in such a manner that replacement air or gas is not provided or required during venting. Vent, used in system names, does not imply a VENTING process.

TABLE 2.2-1 (Page 4 of 7)
INSTRUMENTATION SETPOINTS

SYSTEM/REFERENCE LCO (TRO)		TRIP FUNCTION	TRIP SETPOINT
2.2.3.2 LPCI Mode of RHR System			
2.2.3.2.1	3.3.5.1	Reactor Vessel Water Level - Low Low Low, Level 1	≥ -129 inches ^(a)
2.2.3.2.2	3.3.5.1	Drywell Pressure - High	≤ 1.72 psig
2.2.3.2.3	3.3.5.1	Reactor Vessel Steam Dome Pressure - Low, injection permissive	$\geq 413, \leq 427$ psig
2.2.3.2.4	3.3.5.1	Reactor Vessel Steam Dome Pressure - Low, Recirculation Discharge Valve permissive	≥ 236 psig, decreasing
2.2.3.3 HPCI System			
2.2.3.3.1	3.3.5.1	Reactor Vessel Water Level - Low Low, Level 2	≥ -38 inches ^(a)
2.2.3.3.2	3.3.5.1	Drywell Pressure - High	≤ 1.72 psig
2.2.3.3.3	3.3.5.1	Condensate Storage Tank Level - Low	≥ 36.0 inches above tank bottom
2.2.3.3.4	3.3.5.1	Reactor Vessel Water Level - High, Level 8	≤ 54 inches
2.2.3.4 Automatic Depressurization System (ADS)			
2.2.3.4.1	3.3.5.1	Reactor Vessel Water Level - Low Low Low, Level 1	≥ -129 inches
2.2.3.4.2	3.3.5.1	Drywell Pressure - High	≤ 1.72 psig
2.2.3.4.3	3.3.5.1	ADS Timer	≤ 102 seconds
2.2.3.4.4	3.3.5.1	Core Spray Pump Discharge Pressure - High	$\geq 135, \leq 155$ psig
2.2.3.4.5	3.3.5.1	Low Pressure Coolant Injection Pump Discharge Pressure - High	$\geq 121, \leq 129$ psig
2.2.3.4.6	3.3.5.1	Reactor Vessel Water Level - Low, Level 3 Confirmatory	≥ 13 inches
2.2.3.4.7	3.3.5.1	ADS Drywell Pressure Bypass Timer	≤ 420 seconds
2.2.3.5 Loss of Power - ECCS Actuation			
2.2.3.5.1 4.16kv ESS Bus Undervoltage (Loss of Voltage < 20%)			
2.2.3.5.1.1	3.3.8.1	Bus Undervoltage	$\geq 823.2, \leq 856.8$ Volts
2.2.3.5.1.2	3.3.8.1	Time delay	$\geq 0.4, \leq 0.6$ seconds

(continued)

^(a) See Figure 2.2-1