

MANUAL HARD COPY DISTRIBUTION
DOCUMENT TRANSMITTAL 2010-9803

USER INFORMATION:

GERLACH*ROSE M EMPL#: 028401 CA#: 0363
Address: NUCSA2
Phone#: 254-3194

TRANSMITTAL INFORMATION:

TO: GERLACH*ROSE M 03/11/2010

LOCATION: USNRC

FROM: NUCLEAR RECORDS DOCUMENT CONTROL CENTER (NUCSA-2)

THE FOLLOWING CHANGES HAVE OCCURRED TO THE HARDCOPY OR ELECTRONIC MANUAL ASSIGNED TO YOU. HARDCOPY USERS MUST ENSURE THE DOCUMENTS PROVIDED MATCH THE INFORMATION ON THIS TRANSMITTAL. WHEN REPLACING THIS MATERIAL IN YOUR HARDCOPY MANUAL, ENSURE THE UPDATE DOCUMENT ID IS THE SAME DOCUMENT ID YOU'RE REMOVING FROM YOUR MANUAL. TOOLS FROM THE HUMAN PERFORMANCE TOOL BAG SHOULD BE UTILIZED TO ELIMINATE THE CHANCE OF ERRORS.

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: 03/08/2010

ADD MANUAL TABLE OF CONTENTS DATE: 03/10/2010

CATEGORY: DOCUMENTS TYPE: TRM2

ADD
NRR

ID: TEXT B3.8.1

ADD: REV: 2

REMOVE: REV:1

CATEGORY: DOCUMENTS TYPE: TRM2

ID: TEXT LOES

REMOVE: REV:56

ADD: REV: 57

ANY DISCREPANCIES WITH THE MATERIAL PROVIDED, CONTACT DCS @ X3107 OR X3136 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

Table Of Contents

Issue Date: 03/10/2010

<u>Procedure Name</u>	<u>Rev</u>	<u>Issue Date</u>	<u>Change ID</u>	<u>Change Number</u>
TEXT LOES Title: LIST OF EFFECTIVE SECTIONS	57	03/10/2010		
TEXT TOC Title: TABLE OF CONTENTS	16	09/16/2009		
TEXT 1.1 Title: USE AND APPLICATION DEFINITIONS	0	11/19/2002		
TEXT 2.1 Title: PLANT PROGRAMS AND SETPOINTS PLANT PROGRAMS	1	02/04/2005		
TEXT 2.2 Title: PLANT PROGRAMS AND SETPOINTS INSTRUMENT TRIP SETPOINT TABLE	9	02/12/2010		
TEXT 3.0 Title: APPLICABILITY TECHNICAL REQUIREMENT FOR OPERATION (TRO) APPLICABILITY	4	05/23/2008		
TEXT 3.1.1 Title: REACTIVITY CONTROL SYSTEMS ANTICIPATED TRANSIENT WITHOUT SCRAM ALTERNATE ROD INJECTION (ATWS-ARI) INSTRUMENTATION	1	11/09/2007		
TEXT 3.1.2 Title: REACTIVITY CONTROL SYSTEMS CONTROL ROD DRIVE (CRD) HOUSING SUPPORT	0	11/19/2002		
TEXT 3.1.3 Title: REACTIVITY CONTROL SYSTEMS CONTROL ROD BLOCK INSTRUMENTATION	4	05/14/2009		
TEXT 3.1.4 Title: REACTIVITY CONTROL SYSTEMS CONTROL ROD SCRAM ACCUMULATORS INSTRUMENTATION AND CHECK VALVE	0	11/19/2002		
TEXT 3.2.1 Title: CORE OPERATING LIMITS CORE OPERATING LIMITS REPORT (COLR)	8	05/14/2009		

LDCN

4712

SSES MANUAL

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

TEXT 3.3.1	0	11/19/2002	Title: INSTRUMENTATION RADIATION MONITORING INSTRUMENTATION
TEXT 3.3.2	2	11/09/2007	Title: INSTRUMENTATION SEISMIC MONITORING INSTRUMENTATION
TEXT 3.3.3	2	11/09/2007	Title: INSTRUMENTATION METEOROLOGICAL MONITORING INSTRUMENTATION
TEXT 3.3.4	5	05/23/2008	Title: INSTRUMENTATION TRM POST-ACCIDENT MONITORING INSTRUMENTATION
TEXT 3.3.5	0	11/19/2002	Title: INSTRUMENTATION THIS PAGE INTENTIONALLY LEFT BLANK
TEXT 3.3.6	2	10/19/2005	Title: INSTRUMENTATION TRM ISOLATION ACTUATION INSTRUMENTATION
TEXT 3.3.7	1	11/09/2007	Title: INSTRUMENTATION MAIN TURBINE OVERSPEED PROTECTION SYSTEM
TEXT 3.3.8	1	10/22/2003	Title: INSTRUMENTATION TRM RPS INSTRUMENTATION
TEXT 3.3.9	3	05/14/2009	Title: INSTRUMENTATION LPRM UPSCALE ALARM INSTRUMENTATION
TEXT 3.3.10	1	12/14/2004	Title: INSTRUMENTATION REACTOR RECIRCULATION PUMP MG SET STOPS
TEXT 3.3.11	1	10/22/2003	Title: INSTRUMENTATION MVP ISOLATION INSTRUMENTATION
TEXT 3.3.12	0	04/16/2009	Title: WATER MONITORING INSTRUMENTATION

SSES MANUAL

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

TEXT 3.4.1 1 04/26/2006
Title: REACTOR COOLANT SYSTEM REACTOR COOLANT SYSTEM CHEMISTRY

TEXT 3.4.2 1 04/16/2009
Title: REACTOR COOLANT SYSTEM STRUCTURAL INTEGRITY

TEXT 3.4.3 1 11/09/2007
Title: REACTOR COOLANT SYSTEM REACTOR COOLANT SYSTEM (RCS)

TEXT 3.4.4 2 05/14/2009
Title: REACTOR COOLANT SYSTEM REACTOR RECIRCULATION FLOW AND ROD LINE LIMIT

TEXT 3.4.5 1 04/26/2006
Title: REACTOR COOLANT SYSTEM REACTOR VESSEL MATERIALS

TEXT 3.5.1 1 02/04/2005
Title: ECCS AND RCIC ADS MANUAL INHIBIT

TEXT 3.5.2 1 11/09/2007
Title: ECCS AND RCIC ECCS AND RCIC SYSTEM MONITORING INSTRUMENTATION

TEXT 3.5.3 0 11/19/2002
Title: ECCS AND RCIC LONG TERM NITROGEN SUPPLY TO ADS

TEXT 3.6.1 0 11/19/2002
Title: CONTAINMENT VENTING OR PURGING

TEXT 3.6.2 0 11/19/2002
Title: CONTAINMENT SUPPRESSION CHAMBER-TO-DRYWELL VACUUM BREAKER POSITION INDICATION

TEXT 3.6.3 0 11/19/2002
Title: CONTAINMENT SUPPRESSION POOL ALARM INSTRUMENTATION

TEXT 3.6.4 0 11/19/2002
Title: CONTAINMENT PRIMARY CONTAINMENT CLOSED SYSTEM BOUNDARIES

SSES MANUAL

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

TEXT 3.7.1 0 11/19/2002
Title: PLANT SYSTEMS EMERGENCY SERVICE WATER SYSTEM (ESW) SHUTDOWN

TEXT 3.7.2 0 11/19/2002
Title: PLANT SYSTEMS ULTIMATE HEAT SINK (UHS) AND GROUND WATER LEVEL

TEXT 3.7.3.1 2 04/16/2009
Title: PLANT SYSTEMS FIRE SUPPRESSION WATER SUPPLY SYSTEM

TEXT 3.7.3.2 3 04/16/2009
Title: PLANT SYSTEMS SPRAY AND SPRINKLER SYSTEMS

TEXT 3.7.3.3 3 04/16/2009
Title: PLANT SYSTEMS CO2 SYSTEMS

TEXT 3.7.3.4 2 04/16/2009
Title: PLANT SYSTEMS HALON SYSTEMS

TEXT 3.7.3.5 2 04/16/2009
Title: PLANT SYSTEMS FIRE HOSE STATIONS

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

TEXT 3.7.3.8 8 01/20/2010
Title: PLANT SYSTEMS FIRE DETECTION INSTRUMENTATION

TEXT 3.7.4 1 04/26/2006
Title: PLANT SYSTEMS SOLID RADWASTE SYSTEM

TEXT 3.7.5.1 0 11/19/2002
Title: PLANT SYSTEMS MAIN CONDENSER OFFGAS HYDROGEN MONITOR

SSES MANUAL

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

TEXT 3.7.5.2 0 11/19/2002
Title: PLANT SYSTEMS MAIN CONDENSER OFFGAS EXPLOSIVE GAS MIXTURE

TEXT 3.7.5.3 1 04/26/2006
Title: PLANT SYSTEMS LIQUID HOLDUP TANKS

TEXT 3.7.6 2 06/27/2008
Title: PLANT SYSTEMS ESSW PUMPHOUSE VENTILATION

TEXT 3.7.7 2 09/05/2008
Title: PLANT SYSTEMS MAIN CONDENSER OFFGAS PRETREATMENT LOGARITHMIC RADIATION
MONITORING INSTRUMENTATION

TEXT 3.7.8 6 06/21/2007
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 3.7.11 1 10/02/2009
Title: PLANT SYSTEMS

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

TEXT 3.8.2.1 2 11/09/2007
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

SSES MANUAL

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

TEXT 3.8.4	1	02/04/2005	Title: ELECTRICAL POWER 24 VDC ELECTRICAL SUBSYSTEM
TEXT 3.8.5	0	11/19/2002	Title: ELECTRICAL POWER DEGRADED VOLTAGE PROTECTION
TEXT 3.8.6	0	11/19/2002	Title: ELECTRICAL POWER EMERGENCY SWITCHGEAR ROOM COOLING
TEXT 3.8.7	2	10/22/2009	Title: BATTERY MAINTENANCE AND MONITORING PROGRAM
TEXT 3.9.1	0	11/19/2002	Title: REFUELING OPERATIONS DECAY TIME
TEXT 3.9.2	0	11/19/2002	Title: REFUELING OPERATIONS COMMUNICATIONS
TEXT 3.9.3	0	11/19/2002	Title: REFUELING OPERATIONS REFUELING PLATFORM
TEXT 3.10.1	1	04/26/2006	Title: MISCELLANEOUS SEALED SOURCE CONTAMINATION
TEXT 3.10.2	1	04/09/2007	Title: MISCELLANEOUS SHUTDOWN MARGIN TEST RPS INSTRUMENTATION
TEXT 3.10.3	1	04/26/2006	Title: MISCELLANEOUS INDEPENDENT SPENT FUEL STORAGE INSTALLATION (ISFSI)
TEXT 3.11.1.1	1	04/26/2006	Title: RADIOACTIVE EFFLUENTS LIQUID EFFLUENTS CONCENTRATION
TEXT 3.11.1.2	1	04/26/2006	Title: RADIOACTIVE EFFLUENTS LIQUID EFFLUENTS DOSE

SSES MANUAL

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

TEXT 3.11.1.3	1	04/26/2006	Title: RADIOACTIVE EFFLUENTS LIQUID WASTE TREATMENT SYSTEM
TEXT 3.11.1.4	1	12/14/2004	Title: RADIOACTIVE EFFLUENTS LIQUID RADWASTE EFFLUENT MONITORING INSTRUMENTATION
TEXT 3.11.1.5	2	05/02/2007	Title: RADIOACTIVE EFFLUENTS RADIOACTIVE LIQUID PROCESS MONITORING INSTRUMENTATION
TEXT 3.11.2.1	3	04/26/2006	Title: RADIOACTIVE EFFLUENTS DOSE RATE
TEXT 3.11.2.2	1	04/26/2006	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	11/19/2002	Title: RADIOACTIVE EFFLUENTS GASEOUS RADWASTE TREATMENT SYSTEM
TEXT 3.11.2.5	3	11/14/2006	Title: RADIOACTIVE EFFLUENTS VENTILATION EXHAUST TREATMENT SYSTEM
TEXT 3.11.2.6	4	09/16/2009	Title: RADIOACTIVE EFFLUENTS RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION
TEXT 3.11.3	1	04/26/2006	Title: RADIOACTIVE EFFLUENTS TOTAL DOSE
TEXT 3.11.4.1	3	04/26/2006	Title: RADIOACTIVE EFFLUENTS MONITORING PROGRAM
TEXT 3.11.4.2	2	04/26/2006	Title: RADIOACTIVE EFFLUENTS LAND USE CENSUS

SSES MANUAL

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

TEXT 3.11.4.3	1	04/26/2006	Title: RADIOACTIVE EFFLUENTS INTERLABORATORY COMPARISON PROGRAM
TEXT 3.12.1	0	11/19/2002	Title: LOADS CONTROL PROGRAM CRANE TRAVEL-SPENT FUEL STORAGE POOL
TEXT 3.12.2	4	04/17/2008	Title: LOADS CONTROL PROGRAM HEAVY LOADS REQUIREMENTS
TEXT 3.12.3	0	11/19/2002	Title: LOADS CONTROL PROGRAM LIGHT LOADS REQUIREMENTS
TEXT 4.1	0	09/27/2003	Title: ADMINISTRATIVE CONTROLS ORGANIZATION
TEXT 4.2	0	09/27/2003	Title: ADMINISTRATIVE CONTROLS REPORTABLE EVENT ACTION
TEXT 4.3	0	09/27/2003	Title: ADMINISTRATIVE CONTROLS SAFETY LIMIT VIOLATION
TEXT 4.4	1	12/18/2008	Title: ADMINISTRATIVE CONTROLS PROCEDURES & PROGRAMS
TEXT 4.5	0	09/27/2003	Title: ADMINISTRATIVE CONTROLS REPORTING REQUIREMENTS
TEXT 4.6	0	09/27/2003	Title: ADMINISTRATIVE CONTROLS RADIATION PROTECTION PROGRAM
TEXT 4.7	0	09/27/2003	Title: ADMINISTRATIVE CONTROLS TRAINING
TEXT B3.0	4	05/23/2008	Title: APPLICABILITY BASES TECHNICAL REQUIREMENT FOR OPERATION (TRO) APPLICABILITY

SSES MANUAL

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

TEXT B3.1.1 1 11/09/2007
Title: REACTIVITY CONTROL SYSTEM BASES ANTICIPATED TRANSIENT WITHOUT SCRAM ALTERNATE ROD INJECTION (ATWS-ARI) INSTRUMENTATION

TEXT B3.1.2 0 11/19/2002
Title: REACTIVITY CONTROL SYSTEM BASES CONTROL ROD DRIVE (CRD) HOUSING SUPPORT

TEXT B3.1.3 3 04/10/2007
Title: REACTIVITY CONTROL SYSTEM BASES CONTROL ROD BLOCK INSTRUMENTATION

TEXT B3.1.4 0 11/19/2002
Title: REACTIVITY CONTROL SYSTEM BASES CONTROL ROD SCRAM ACCUMULATORS INSTRUMENTATION AND CHECK VALVE

TEXT B3.2.1 0 11/19/2002
Title: CORE OPERATING LIMITS BASES CORE OPERATING LIMITS REPORT (COLR)

TEXT B3.3.1 0 11/19/2002
Title: INSTRUMENTATION BASES RADIATION MONITORING INSTRUMENTATION

TEXT B3.3.2 1 11/09/2007
Title: INSTRUMENTATION BASES SEISMIC MONITORING INSTRUMENTATION

TEXT B3.3.3 2 11/09/2007
Title: INSTRUMENTATION BASES METEOROLOGICAL MONITORING INSTRUMENTATION

TEXT B3.3.4 3 11/09/2007
Title: INSTRUMENTATION BASES TRM POST ACCIDENT MONITORING (PAM) INSTRUMENTATION

TEXT B3.3.5 2 11/09/2007
Title: INSTRUMENTATION BASES THIS PAGE INTENTIONALLY LEFT BLANK

TEXT B3.3.6 3 10/19/2005
Title: INSTRUMENTATION BASES TRM ISOLATION ACTUATION INSTRUMENTATION

TEXT B3.3.7 1 11/09/2007
Title: INSTRUMENTATION BASES MAIN TURBINE OVERSPEED PROTECTION SYSTEM

SSES MANUAL

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

TEXT B3.3.8	1	10/22/2003
Title: INSTRUMENTATION BASES TRM RPS INSTRUMENTATION		
TEXT B3.3.9	3	05/14/2009
Title: INSTRUMENTATION BASES LPRM UPSCALE ALARM INSTRUMENTATION		
TEXT B3.3.10	1	12/18/2008
Title: INSTRUMENTATION BASES REACTOR RECIRCULATION PUMP MG SET STOPS		
TEXT B3.3.11	1	10/22/2003
Title: INSTRUMENTATION BASES MVP ISOLATION INSTRUMENTATION		
TEXT B3.3.12	0	04/16/2009
Title: WATER MONITORING INSTRUMENTATION		
TEXT B3.4.1	0	11/19/2002
Title: REACTOR COOLANT SYSTEM BASES REACTOR COOLANT SYSTEM CHEMISTRY		
TEXT B3.4.2	1	04/16/2009
Title: REACTOR COOLANT SYSTEM BASES STRUCTURAL INTEGRITY		
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		
TEXT B3.5.1	0	11/19/2002
Title: ECCS AND RCIC BASES ADS MANUAL INHIBIT		
TEXT B3.5.2	1	11/09/2007
Title: ECCS AND RCIC BASES ECCS AND RCIC SYSTEM MONITORING INSTRUMENTATION		

SSES MANUAL

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

TEXT B3.5.3	1	11/09/2007
Title: ECCS AND RCIC BASES LONG TERM NITROGEN SUPPLY TO ADS		
TEXT B3.6.1	0	11/19/2002
Title: CONTAINMENT BASES VENTING OR PURGING		
TEXT B3.6.2	0	11/19/2002
Title: CONTAINMENT BASES SUPPRESSION CHAMBER-TO-DRYWELL VACUUM BREAKER POSITION INDICATION		
TEXT B3.6.3	1	04/19/2007
Title: CONTAINMENT BASES SUPPRESSION POOL ALARM INSTRUMENTATION		
TEXT B3.6.4	1	12/14/2004
Title: CONTAINMENT BASES PRIMARY CONTAINMENT CLOSED SYSTEM BOUNDARIES		
TEXT B3.7.1	0	11/19/2002
Title: PLANT SYSTEMS BASES EMERGENCY SERVICE WATER SYSTEM (SHUTDOWN)		
TEXT B3.7.2	0	11/19/2002
Title: PLANT SYSTEMS BASES ULTIMATE HEAT SINK (UHS) GROUND WATER LEVEL		
TEXT B3.7.3.1	2	01/07/2008
Title: PLANT SYSTEMS BASES FIRE SUPPRESSION WATER SUPPLY SYSTEM		
TEXT B3.7.3.2	2	04/26/2006
Title: PLANT SYSTEMS BASES SPRAY AND SPRINKLER SYSTEMS		
TEXT B3.7.3.3	0	11/19/2002
Title: PLANT SYSTEMS BASES CO2 SYSTEMS		
TEXT B3.7.3.4	1	04/26/2006
Title: PLANT SYSTEMS BASES HALON SYSTEMS		
TEXT B3.7.3.5	1	04/26/2006
Title: PLANT SYSTEMS BASES FIRE HOSE STATIONS		

SSES MANUAL

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

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	1	01/12/2004	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	Title: PLANT SYSTEMS BASES LIQUID HOLDUP TANKS
TEXT B3.7.6	2	06/27/2008	Title: PLANT SYSTEMS BASES ESSW PUMPHOUSE VENTILATION
TEXT B3.7.7	2	01/31/2008	Title: PLANT SYSTEMS BASES MAIN CONDENSER OFFGAS PRETREATMENT LOGARITHMIC RADIATION MONITORING INSTRUMENTATION
TEXT B3.7.8	3	06/21/2007	Title: PLANT SYSTEMS BASES SNUBBERS
TEXT B3.7.9	1	12/14/2004	Title: PLANT SYSTEMS BASES CONTROL STRUCTURE HVAC
TEXT B3.7.10	1	12/14/2004	Title: PLANT SYSTEMS BASES SPENT FUEL STORAGE POOLS

SSES MANUAL

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

TEXT B3.7.11	1	10/02/2009	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	0	11/19/2002	Title: ELECTRICAL POWER BASES DEGRADED VOLTAGE PROTECTION
TEXT B3.8.6	1	02/04/2005	Title: ELECTRICAL POWER BASES EMERGENCY SWITCHGEAR ROOM COOLING
TEXT B3.8.7	1	06/15/2009	Title: BATTERY MAINTENANCE AND MONITORING PROGRAM
TEXT B3.9.1	0	11/19/2002	Title: REFUELING OPERATIONS BASES DECAY TIME
TEXT B3.9.2	0	11/19/2002	Title: REFUELING OPERATIONS BASES COMMUNICATIONS
TEXT B3.9.3	0	11/19/2002	Title: REFUELING OPERATIONS BASES REFUELING PLATFORM

SSES MANUAL

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

TEXT B3.10.1	0	11/19/2002	Title: MISCELLANEOUS BASES SEALED SOURCE CONTAMINATION
TEXT B3.10.2	1	04/10/2007	Title: MISCELLANEOUS BASES SHUTDOWN MARGIN TEST RPS INSTRUMENTATION
TEXT B3.10.3	0	11/19/2002	Title: MISCELLANEOUS BASES INDEPENDENT SPENT FUEL STORAGE INSTALLATION (ISFSI)
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
TEXT B3.11.2.1	1	12/14/2004	Title: RADIOACTIVE EFFLUENTS BASES DOSE RATE
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

SSES MANUAL

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

TEXT B3.11.2.5	4	11/14/2006	Title: RADIOACTIVE EFFLUENTS BASES VENTILATION EXHAUST TREATMENT SYSTEM
TEXT B3.11.2.6	1	01/27/2004	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	2	01/06/2006	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
TEXT B3.12.2	0	11/19/2002	Title: LOADS CONTROL PROGRAM BASES HEAVY LOADS REQUIREMENTS
TEXT B3.12.3	0	11/19/2002	Title: LOADS CONTROL PROGRAM BASES LIGHT LOADS REQUIREMENTS

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
TOC	TABLE OF CONTENTS	09/08/2009
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 and TRM 2.0-3	01/28/2005
	Page TRM / 2.0-4	06/25/2002
	Page TRM / 2.0-5	04/12/1999
	Page TRM / 2.0-6	04/15/2009
	Page TRM / 2.0-7	05/15/2008
	Page TRM / 2.0-8	04/15/2009
	Page TRM / 2.0-9	11/15/2004
	Page TRM / 2.0-10	02/02/2010
	Page TRM / 2.0-11	11/15/2004
	Page TRM / 2.0-12	04/15/2009
	Pages TRM / 2.0-13 and TRM / 2.0-14	11/15/2004
	Page TRM / 2.0-15	11/15/2005
3.0	APPLICABILITY	
	Pages TRM / 3.0-1 and TRM / 3.0-2	04/14/2008
	Page TRM / 3.0-3	03/15/2002
	Page TRM / 3.0-4	11/30/2005
3.1	REACTIVITY CONTROL SYSTEMS	
	Page TRM / 3.1-1	10/31/2007
	Pages TRM / 3.1-2 through TRM / 3.1-5	08/31/1998
	Page TRM / 3.1-6	03/27/2007
	Page TRM / 3.1-7	04/15/2009
	Page TRM / 3.1-8	03/27/2007
	Pages TRM / 3.1-9 and TRM / 3.1-9a	02/18/1999
	Page TRM / 3.1-10	02/18/1999
3.2	CORE OPERATING LIMITS REPORT	
	Page TRM / 3.2-1	08/31/1998
	Pages TRM / 3.2-2 through TRM / 3.2-54	04/17/2009
3.3	INSTRUMENTATION	
	Pages TRM / 3.3-1 through TRM / 3.3-3	07/16/1999
	Pages TRM / 3.3-4 and TRM / 3.3-5	10/31/2007
	Page 3.3-6	08/31/1998
	Page TRM 3.3-7	10/31/2007
	Page 3.3-8	08/31/1998

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

PPL Rev. 57

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
	Page TRM / 3.3-9	04/12/2007
	Page TRM / 3.3-9a	12/17/1998
	Page TRM / 3.3-10	10/31/2007
	Page TRM / 3.3-11	06/02/2005
	Page TRM / 3.3-11a	04/14/2008
	Page TRM / 3.3-12	03/30/2001
	Page TRM / 3.3-13	09/13/2005
	Page TRM / 3.3-14	12/14/1998
	Page TRM / 3.3-15	10/22/2003
	Page TRM / 3.3-16	06/27/2001
	Page TRM / 3.3-17	06/14/2002
	Page TRM / 3.3-18	10/31/2007
	Pages TRM / 3.3-19 and TRM / 3.3-20	10/22/2003
	Page TRM / 3.3-21	04/15/2009
	Page TRM / 3.3-21a	11/15/2004
	Pages TRM / 3.3-21b through TRM / 3.3-21d	03/27/2007
	Page TRM / 3.3-22	12/03/2004
	Pages TRM / 3.3-23 and TRM / 3.3-24	05/16/2003
	Page TRM / 3.3-25	10/22/2003
	Pages TRM / 3.3-26 and TRM / 3.3-27	04/07/2009
3.4	REACTOR COOLANT SYSTEM	
	Page TRM / 3.4-1	03/31/2006
	Pages 3.4-2 through 3.4-5	10/23/1998
	Pages TRM / 3.4-6 through TRM / 3.4-8	04/01/2009
	Page 3.4-9	08/31/1998
	Page 3.4-10	10/31/2007
	Page 3.4-11	08/31/1998
	Page TRM / 3.4-12	04/17/2009
	Page TRM / 3.4-13	03/31/2006
3.5	EMERGENCY CORE COOLING AND RCIC	
	Page TRM / 3.5-1	01/28/2005
	Pages 3.5-2 and 3.5-3	08/31/1998
	Page TRM / 3.5-4	10/31/2007
	Pages 3.5-5 through 3.5-7	08/31/1998
3.6	CONTAINMENT	
	Pages 3.6-1 through 3.6-4	08/31/1998
	Page TRM / 3.6-5	01/07/2002
	Page 3.6-6	08/31/1998
	Pages TRM / 3.6-7 through TRM / 3.6-9	12/31/2002

LIST OF EFFECTIVE SECTIONS (TECHNICAL REQUIREMENTS MANUAL)

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
3.7	PLANT SYSTEMS	
	Pages TRM / 3.7-1 and TRM / 3.7-2	07/29/1999
	Page 3.7-3	08/31/1998
	Page TRM / 3.7-4	03/31/2006
	Page TRM / 3.7-5	04/07/2009
	Pages TRM / 3.7-6 through TRM / 3.7-8	08/02/1999
	Pages TRM / 3.7-9 and TRM / 3.7-10	04/07/2009
	Page TRM / 3.7-11	01/21/2000
	Page TRM / 3.7-12	08/02/1999
	Page TRM / 3.7-13	04/07/2009
	Page TRM / 3.7-14	08/09/2005
	Pages TRM / 3.7-15 and TRM / 3.7-16	08/02/1999
	Page TRM / 3.7-17	04/07/2009
	Page TRM / 3.7-18	08/02/1999
	Page TRM / 3.7-19	04/07/2009
	Pages TRM / 3.7-20 through TRM / 3.7-22	08/02/1999
	Page TRM / 3.7-23	04/07/2009
	Page TRM / 3.7-24	03/31/2006
	Pages TRM / 3.7-25 and TRM / 3.7-26	08/02/1999
	Page TRM / 3.7-27	10/31/2007
	Page TRM / 3.7-28	11/29/2006
	Page TRM / 3.7-29	01/13/2010
	Page TRM / 3.7-30	11/30/2005
	Page TRM / 3.7-31	11/16/2001
	Page TRM / 3.7-32	01/09/2004
	Page TRM / 3.7-33	10/05/2002
	Page TRM / 3.7-34	03/31/2006
	Pages TRM / 3.7-35 and TRM / 3.7-36	02/01/1999
	Pages 3.7-37 through 3.7-38	08/31/1998
	Page TRM / 3.7-39	03/31/2006
	Page TRM / 3.7-40	02/14/2005
	Page TRM / 3.7-40a	06/20/2008
	Page TRM / 3.7-41	09/04/2008
	Page TRM / 3.7-42	08/31/1998
	Pages TRM / 3.7-43 through TRM / 3.7-45	10/05/2006
	Page TRM / 3.7-46	06/07/2007
	Page TRM / 3.7-47	10/05/2006
	Page TRM / 3.7-48	06/07/2007
	Page TRM / 3.7-49	03/09/2001
	Page TRM / 3.7-50	08/16/2006
	Page TRM / 3.7-51	12/03/2004
	Page TRM / 3.7-52	04/15/2003
	Page TRM / 3.7-53	07/29/1999
	Page TRM / 3.7-54	04/01/2009
	Page TRM / 3.7-55	09/25/2009
	Page TRM / 3.7-56	04/01/2009

LIST OF EFFECTIVE SECTIONS (TECHNICAL REQUIREMENTS MANUAL)

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
3.8	ELECTRICAL POWER	
	Page TRM / 3.8-1	04/02/2002
	Pages TRM / 3.8-2 and TRM / 3.8-3	01/28/2005
	Page TRM / 3.8-4	01/31/2005
	Pages TRM / 3.8-5 and TRM / 3.8-6	04/02/2002
	Pages TRM / 3.8-7 through TRM / 3.8-10	10/31/2007
	Page TRM / 3.8-11	08/10/2004
	Page TRM / 3.8-12	12/03/2004
	Pages 3.8-13 and 3.8-14	08/31/1998
	Page TRM / 3.8-15	01/28/2005
	Pages TRM / 3.8-16 and TRM / 3.8-17	04/02/2002
	Page 3.8-18	02/01/1999
	Page TRM / 3.8-19	04/02/2002
	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
	Page TRM / 3.8-26	05/28/2009
	Page TRM / 3.8-27	11/29/2006
	Page TRM / 3.8-28	05/28/2009
	Page TRM / 3.8-29	10/20/2009
3.9	REFUELING OPERATIONS	
	Pages 3.9-1 through 3.9-3	08/31/1998
3.10	MISCELLANEOUS	
	Page TRM / 3.10-1	03/31/2006
	Pages 3.10-2 through 3.10-4	08/30/1998
	Pages TRM / 3.10-5 and TRM / 3.10-6	03/27/2007
	Page TRM / 3.10-7	03/31/2006
3.11	RADIOACTIVE EFFLUENTS	
	Page TRM / 3.11-1	03/31/2006
	Pages 3.11-2 through 3.11-3	08/31/1998
	Page TRM / 3.11-4	03/31/2006
	Page 3.11-5	08/31/1998
	Page TRM / 3.11-6	03/31/2006
	Pages 3.11-7 through 3.11-9	08/31/1998
	Page TRM / 3.11-10	12/03/2004
	Pages 3.11-11 and 3.11-12	08/31/1998
	Page TRM / 3.11-13	04/12/2007
	Page TRM / 3.11-14	12/03/1004
	Pages 3.11-15 and 3.11-16	09/01/1998
	Page TRM / 3.11-17	03/31/2006

LIST OF EFFECTIVE SECTIONS (TECHNICAL REQUIREMENTS MANUAL)

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
	Page 3.11-18	08/31/1998
	Page TRM / 3.11-19	08/15/2005
	Pages TRM / 3.11-20 and TRM / 3.11-21	03/31/2006
	Page TRM / 3.11-22	04/02/2002
	Page TRM / 3.11-23	11/14/2006
	Page TRM / 3.11-24	05/13/2005
	Page TRM / 3.11-25	04/12/2007
	Pages TRM / 3.11-26 and TRM / 3.11-27	01/21/2004
	Page TRM / 3.11-28	09/08/2009
	Page TRM / 3.11-29	12/03/2004
	Pages TRM 3.11-30 through TRM / 3.11-32	01/21/2004
	Page TRM / 3.11-33	03/31/2006
	Page 3.11-34	08/31/1998
	Page TRM / 3.11-35	03/31/2006
	Pages TRM / 3.11-36 through TRM / 3.11-39	11/30/2005
	Pages 3.11-40 through 3.11-44	08/31/1998
	Page TRM / 3.11-45	03/31/2006
	Page 3.11-46	08/31/1998
	Page TRM / 3.11-47	03/31/2006
3.12	LOADS CONTROL PROGRAM	
	Pages TRM / 3.12-1 through TRM / 3.12-3	02/05/1999
	Page TRM / 3.12-4	03/14/2008
	Page TRM / 3.12-5	02/05/1999
4.0	ADMINISTRATIVE CONTROLS	
	Pages TRM / 4.0-1 through TRM / 4.0-3	08/31/1998
	Page TRM / 4.0-4	12/11/2008
	Pages TRM / 4.0-5 through TRM / 4.0-8	08/31/1998

LIST OF EFFECTIVE SECTIONS (TECHNICAL REQUIREMENTS MANUAL)

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
B 3.0	APPLICABILITY BASES	
	Pages TRM / B 3.0-1 through TRM / B 3.0-3	08/31/1998
	Page TRM / B 3.0-4	01/10/2007
	Page TRM / B 3.0-5	04/14/2008
	Page TRM / B 3.0-6	08/31/1998
	Page TRM / B 3.0-7	04/12/2007
	Pages TRM / B 3.0-8 through TRM / B 3.0-10	08/31/1998
	Pages TRM / B 3.0-11 and TRM / B 3.0-12	03/15/2002
	Pages TRM / B 3.0-13 and TRM / B 3.0-14	11/30/2005
	Page TRM / B 3.0-15	03/15/2002
B 3.1	REACTIVITY CONTROL SYSTEMS BASES	
	Page TRM / B 3.1-1	07/13/1999
	Pages TRM / B 3.1-2 and TRM / B 3.1-3	10/31/2007
	Page B 3.1-4	08/31/1998
	Pages TRM / B 3.1-5 through TRM / B 3.1-7	03/27/2007
	Page TRM / B 3.1-8	02/18/1999
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	04/07/2000
	Pages TRM / B 3.3-2 and TRM / B-3.3-2a	10/31/2007
	Pages TRM / B 3.3-3 and TRM / B 3.3-3a	10/31/2007
	Pages TRM / B 3.3-4 and TRM / B 3.3-5	05/30/2006
	Pages TRM / B 3.3-6 through TRM / B 3.3-9	10/31/2007
	Page B 3.3-10	08/31/1998
	Pages TRM / B 3.3-11 and TRM / B 3.3-12	09/13/2005
	Page TRM / B 3.3-13	12/03/2004
	Page TRM / B 3.3-14	06/25/2002
	Page TRM / B 3.3-14a	10/31/2007
	Page TRM / B 3.3-14b	06/14/2002
	Pages TRM / B 3.3-15 through TRM / B 3.3-17	10/22/2003
	Pages TRM / B 3.3-18 and TRM / B 3.3-19	03/27/2007
	Pages TRM / B 3.3-19a and TRM / B 3.3-19b	03/27/2007
	Page TRM / B 3.3-19c	04/17/2009
	Pages TRM / B 3.3-19d and TRM / B 3.3-19e	03/27/2007
	Page TRM / B 3.3-20	12/11/2008
	Page TRM / B 3.3-21	05/16/2003
	Page TRM / B 3.3-22	10/22/2003
	Page TRM / B 3.3-23	05/16/2003
	Pages TRM / B 3.3-24 and TRM / B 3.3-25	04/07/2009

LIST OF EFFECTIVE SECTIONS (TECHNICAL REQUIREMENTS MANUAL)

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
B 3.4	REACTOR COOLANT SYSTEM BASES	
	Page TRM / B 3.4-1	08/31/1998
	Pages TRM / B 3.4-2 and TRM / B3.4-3	04/01/2009
	Pages TRM / B 3.4-4 and TRM / B 3.4-4a	10/31/2007
	Page TRM / B 3.4-5	10/15/1999
	Page B 3.4-6	08/31/1998
B 3.5	ECCS AND RCIC BASES	
	Pages B 3.5-1 and B 3.5-2	08/31/1998
	Pages TRM / B 3.5-3 and TRM / B 3.5-3a	10/31/2007
	Page B 3.5-4	08/31/1998
	Page TRM / B 3.5-5	10/31/2007
B 3.6	CONTAINMENT BASES	
	Page TRM / B 3.6-1	07/26/2001
	Page TRM / B 3.6-2	02/01/1999
	Page B 3.6-3	08/31/1998
	Page TRM / B 3.6-4	03/29/2007
	Page TRM / B 3.6-5	04/04/2007
	Page TRM / B 3.6-6	12/03/2004
	Pages TRM / B 3.6-7 through TRM / B 3.6-11	12/31/2002
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 and TRM / B 3.7-3a	12/27/2007
	Page TRM / B 3.7-4	03/31/2006
	Page TRM / B 3.7-5	08/02/1999
	Pages TRM / B 3.7-6 and TRM / B 3.7-6a	03/31/2006
	Pages TRM / B 3.7-7 and TRM / B 3.7-7a	08/02/1999
	Page TRM / B 3.7-8	08/02/1999
	Page TRM / B 3.7-9	03/31/2006
	Page TRM / B 3.7-10	08/02/1999
	Pages TRM / B 3.7-10a through TRM / B 3.7-11a	03/31/2006
	Pages TRM / B 3.7-12 through TRM / B 3.7-14	08/02/1999
	Pages TRM / B 3.7-14a and TRM / B 3.7-14b	01/09/2004
	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
	Page TRM / B 3.7-21	02/14/2005
	Page TRM / B 3.7-21a	06/20/2008
	Pages TRM / B 3.7-22 and TRM / B 3.7-23	01/30/2008
	Pages TRM / B 3.7-24 through TRM / B 3.7-29	10/05/2006
	Page TRM / B 3.7-30	06/07/2007
	Pages TRM / B 3.7-30a and TRM / B 3.7-30b	10/05/2006
	Page TRM / B 3.7-32	03/09/2001
	Page TRM / B 3.7-33	04/15/2003

LIST OF EFFECTIVE SECTIONS (TECHNICAL REQUIREMENTS MANUAL)

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
	Page TRM / B 3.7-34	12/03/2004
	Page TRM / B 3.7-35	07/05/2000
	Pages TRM / B 3.7-36 and TRM / B 3.7-37	04/01/2009
	Page TRM / B 3.7-38	09/25/2009
	Pages TRM / B 3.7-39 and TRM / B 3.7-40	04/01/2009
B 3.8	ELECTRICAL POWER BASES	
	Page TRM / B 3.8-1	04/02/2002
	Pages TRM / B 3.8-2 and TRM / B 3.8-2	01/28/2005
	Page TRM / B 3.8-2a	03/01/2010
	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	08/10/2004
	Page TRM / B 3.8-5	08/31/1998
	Pages TRM / B 3.8-6 through TRM / B 3.8-16	04/02/2002
	Page TRM / B 3.8-17	01/28/2005
	Pages TRM / B 3.8-18 through TRM / B 3.8-20	11/29/2006
	Pages TRM / B 3.8-21 through TRM / B 3.8-24	05/28/2009
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	
	Page B 3.10-1	08/31/1998
	Pages TRM / B 3.10-2 and TRM / B 3.10-3	03/27/2007
	Pages TRM / B 3.10-4 and TRM / B 3.10-5	08/23/1999
B 3.11	RADIOACTIVE EFFLUENTS BASES	
	Pages B 3.11-1 through B 3.11-9	08/31/1998
	Page 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	12/03/2004
	Page TRM / B 3.11-15	02/01/1999
	Pages B 3.11-16 through B 3.11-19	08/31/1998
	Page TRM / B 3.11-20	04/02/2002
	Page TRM / B 3.11-20a	04/02/2002
	Page TRM / B 3.11-21	05/13/2005
	Pages TRM / B 3.11-22 and TRM / B 3.11-23	11/14/2006
	Page TRM / B 3.11-23a	05/13/2005
	Pages TRM / B 3.11-24 and TRM / B 3.11-25	01/21/2004
	Pages B 3.11-26 through B 3.11-27	08/31/1998

LIST OF EFFECTIVE SECTIONS (TECHNICAL REQUIREMENTS MANUAL)

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
	Pages TRM / B 3.11-28 and TRM / B 3.11-29	11/30/2005
	Page TRM / B 3.11-30	12/03/2004
	Pages B 3.11-31 through B 3.11-35	08/31/1998
	Page TRM / B 3.11-36	02/12/1999
B.3.12	LOADS CONTROL PROGRAM BASES	
	Page TRM / B 3.12-1	09/19/2007
	Pages TRM / B 3.12-2 and TRM / B 3.12-3	02/05/1999

TRM2 text LOES.doc
3/2/2010

B 3.8.1 Primary Containment Penetration Conductor Overcurrent Protective Devices

BASES

TRO TRO 3.8.1 requires that all primary containment penetration conductor overcurrent protective devices are OPERABLE. This assures that the design limits of the containment electrical penetrations will not be challenged as a result of electrical faults on the penetration conductors. Primary containment electrical penetrations and penetration conductors are protected by either de-energizing circuits not required during reactor operation or demonstrating the OPERABILITY of primary and backup overcurrent protection circuit breakers by periodic surveillance.

ACTIONS The ACTIONS are defined to ensure proper corrective measures are taken in response to the inoperable components.

The ACTIONS have been modified by a Note to clarify the application of Completion Time rules. The Conditions of this TRO may be entered independently for each affected protective device. The Completion Time(s) of the inoperable primary containment penetration conductor overcurrent protective device will be tracked separately for each affected device starting from the time the Condition was entered for that device as a result of discovery of an inoperable device.

A.1 and A.2

With one or more required primary containment penetration conductor overcurrent protective devices inoperable, the circuit(s) associated with the inoperable protection device(s) must be placed in a condition that would preclude the possibility of a fault that could overload the circuit(s). To accomplish this, the circuit is deenergized. Since systems or components supplied by the affected circuit will no longer have power, they must be declared inoperable. The 72 hour Completion Time takes into account the design of the electrical penetration for maximum fault current, the availability of backup circuit protection on the distribution system and the low probability of a design basis accident occurring during this period. This Completion Time is also considered reasonable to perform the necessary repairs or circuit alterations to restore or otherwise deenergize the affected circuit.

In order to assure that any electrical penetration which is not protected by an overcurrent device remains deenergized, it is necessary to periodically verify that its alternate circuit breaker is opened, or that the inoperable circuit breaker is opened. A Completion Time of once per 7 days is considered sufficient due to the infrequency of plant operations that could result in reenergizing a circuit that has been deenergized in this manner.

(continued)

B 3.8.1 Primary Containment Penetration Conductor Overcurrent Protective Devices

BASES

ACTIONS
(continued)B.1

In the event that the Required Actions and associated Completion Times of Condition A are not met, the plant must be placed in a MODE or other specified condition in which the TRO does not apply. This is done by placing the plant in at least MODE 3 within 12 hours and in MODE 4 within 36 hours. The Completion Times are reasonable, based on operating experience, to reach the required plant conditions from full power conditions in an orderly manner and without challenging plant systems.

TRS

The TRSs are performed at the specified Frequency to ensure that the required overcurrent protective devices are maintained OPERABLE.

TRS 3.8.1.1

This surveillance requires the performance of a functional test on a representative sample of $\geq 10\%$ of each type of lower voltage circuit breaker used as penetration protection. This sample size is sufficiently large to represent the actual failure distribution within the whole population of circuit breakers of a given type used in the plant. Circuit breakers selected for functional testing should be selected on a rotating basis.

A representative sample is determined based upon each manufacturer's brand of circuit breaker. Each manufacturer's molded case and metal case circuit breakers are grouped into representative samples, which are then tested on a rotating basis to ensure that all breakers are tested. If a wide variety exists within any manufacturer's brand of circuit breakers, it is necessary to divide that manufacturer's breakers into groups and treat each group as a separate type of breaker for surveillance purposes.

This surveillance has been modified by a Note, stating that for each circuit breaker found inoperable during these functional tests, an additional representative sample of at least 10% of all circuit breakers of the inoperable type shall be functionally tested until no more failures are found or all circuit breakers of that type have been tested. The expansion of the test population ensures that a failure discovered in the representative sample was not caused by a failure mechanism that could systematically affect other breakers in the overall population of breakers of the same type.

The functional tests required by TRS 3.8.1.1 consist of injecting a current with a value equal to 300% of the pickup of the thermal (long term time delay) element of Types 150A Frame and 250A Frame (thermal magnetic) circuit breakers, and

(continued)

B 3.8.1 Primary Containment Penetration Conductor Overcurrent Protective Devices

BASES

TRS
(continued)

verifying that the circuit breaker operates within the time delay band-width specified by the manufacturer for the test current. The magnetic (instantaneous) element is tested by injecting a current in excess of 120% of the pickup value of the magnetic (instantaneous) element and verifying that the circuit breaker trips instantaneously with no intentional time delay. Type 150A Frame (magnetic only) circuit breaker testing also follows this procedure except that no thermal trip elements are involved. Circuit breakers found inoperable during functional testing should be restored to OPERABLE status prior to resuming operation.

If there are any failure mechanisms that could affect the OPERABILITY of the circuit breaker(s), they are likely to have occurred in the sample tested. The 24 month Frequency takes into consideration the infrequent operation of the breakers and their correspondingly low failure rate.

TRS 3.8.1.2

This surveillance requires the performance of a functional test on each required overcurrent relay. The functional test consists of injecting a current sufficient to actuate the relay, verify that the pickup current is less than 120% of the nominal relay pickup current, and that the measured response time is within $\pm 10\%$ of the specified value. The 24 month Frequency takes into consideration the infrequent operation of the breakers and their correspondingly low failure rate.

TRS 3.8.1.3

This surveillance requires the inspection of each circuit breaker and the performance of procedures prepared in conjunction with the manufacturer's recommendations. By performance of recommended maintenance, the likelihood for the circuit breakers to become inoperable can be minimized. The 120 month Frequency takes into consideration the low frequency of operation of the circuit breakers and the low likelihood that operation and maintenance activities could adversely affect the OPERABILITY of the circuit breakers. Provisions of TRS 3.0.2 are not applicable.

REFERENCES None
