

MANUAL HARD COPY DISTRIBUTION
DOCUMENT TRANSMITTAL 2010-10001

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.

TRM1 - TECHNICAL REQUIREMENTS MANUAL UNIT 1

REMOVE MANUAL TABLE OF CONTENTS DATE: 03/04/2010

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

CATEGORY: DOCUMENTS TYPE: TRM1

*Add
NRR*

ID: TEXT B3.8.1
REMOVE: REV:1

ADD: REV: 2

CATEGORY: DOCUMENTS TYPE: TRM1
ID: TEXT LOES
REMOVE: REV:54

ADD: REV: 55

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: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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	55	03/10/2010		
TEXT TOC Title: TABLE OF CONTENTS	16	04/16/2009		
TEXT 1.1 Title: USE AND APPLICATION DEFINITIONS	0	11/18/2002		
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	8	02/12/2010		
			LDCN	4414
TEXT 3.0 Title: TECHNICAL REQUIREMENT FOR OPERATION (TRO) APPLICABILITY & SURVEILLANCE (TRS) 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	11/18/2002		
TEXT 3.1.3 Title: REACTIVITY CONTROL SYSTEMS CONTROL ROD BLOCK INSTRUMENTATION	5	04/16/2009		
TEXT 3.1.4 Title: REACTIVITY CONTROL SYSTEMS CONTROL ROD SCRAM ACCUMULATORS INSTRUMENTATION & CHECK VALVE	0	11/18/2002		
TEXT 3.2.1 Title: CORE OPERATING LIMITS REPORT (COLR)	10	01/20/2010		

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT 3.3.1	0	11/18/2002	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	11/18/2002	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	04/17/2008	Title: OPRM INSTRUMENTATION CONFIGURATION
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

SSSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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 HIGH/LOW PRESSURE INTERFACE LEAKAGE MONITORS

TEXT 3.4.4 2 04/17/2008

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: EMERGENCY CORE COOLING AND RCIC ADS MANUAL INHIBIT

TEXT 3.5.2 1 11/09/2007

Title: EMERGENCY CORE COOLING AND RCIC ECCS AND RCIC SYSTEM MONITORING INSTRUMENTATION

TEXT 3.5.3 0 11/18/2002

Title: EMERGENCY CORE COOLING AND RCIC LONG TERM NITROGEN SUPPLY TO ADS

TEXT 3.6.1 0 11/18/2002

Title: CONTAINMENT VENTING OR PURGING

TEXT 3.6.2 0 11/18/2002

Title: CONTAINMENT SUPPRESSION CHAMBER-TO-DRYWELL VACUUM BREAKER POSITION INDICATION

TEXT 3.6.3 0 11/18/2002

Title: CONTAINMENT SUPPRESSION POOL ALARM INSTRUMENTATION

TEXT 3.6.4 0 11/18/2002

Title: CONTAINMENT PRIMARY CONTAINMENT CLOSED SYSTEM BOUNDARIES

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT 3.7.1 0 11/18/2002
Title: PLANT SYSTEMS EMERGENCY SERVICE WATER SYSTEM (ESW) SHUTDOWN

TEXT 3.7.2 0 11/18/2002
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 7 01/20/2010
Title: PLANT SYSTEMS FIRE DETECTION INSTRUMENTATION

LDCN 3503

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

TEXT 3.7.5.1 0 11/18/2002
Title: PLANT SYSTEMS MAIN CONDENSER OFFGAS HYDROGEN MONITOR

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT 3.7.5.2	0	11/18/2002	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
TEXT 3.7.8	4	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	0	04/16/2009	Title: STRUCTURAL INTEGRITY
TEXT 3.8.1	1	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	11/18/2002	Title: ELECTRICAL POWER DIESEL GENERATOR (DG) MAINTENANCE ACTIVITIES

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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

TEXT 3.8.5 0 11/18/2002
Title: ELECTRICAL POWER DEGRADED VOLTAGE PROTECTION

TEXT 3.8.6 0 11/18/2002
Title: ELECTRICAL POWER EMERGENCY SWITCHGEAR ROOM COOLING

TEXT 3.8.7 1 06/15/2009
Title: BATTERY MAINTENANCE AND MONITORING PROGRAM

TEXT 3.9.1 0 11/18/2002
Title: REFUELING OPERATIONS DECAY TIME

TEXT 3.9.2 0 11/18/2002
Title: REFUELING OPERATIONS COMMUNICATIONS

TEXT 3.9.3 0 11/18/2002
Title: REFUELING OPERATIONS REFUELING PLATFORM

TEXT 3.10.1 1 04/26/2006
Title: MISCELLANEOUS SEAL SOURCE CONTAMINATION

TEXT 3.10.2 2 08/08/2006
Title: MISCELLANEOUS SHUTDOWN MARGIN TEST RPS INSTRUMENTATION

TEXT 3.10.3 1 04/26/2006
Title: MISCELLANEOUS INDEPENDENT SPENT FUEL STORAGE INSTALLATION (ISFSI)

TEXT 3.10.4 2 04/17/2008
Title: MISCELLANEOUS LEADING EDGE FLOW METER (LEFM)

TEXT 3.11.1.1 1 04/26/2006
Title: RADIOACTIVE EFFLUENTS LIQUID EFFLUENTS CONCENTRATION

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT 3.11.1.2	1	04/26/2006	Title: RADIOACTIVE EFFLUENTS LIQUID EFFLUENTS DOSE
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	11/18/2002	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	4	08/08/2006	Title: RADIOACTIVE EFFLUENTS MONITORING PROGRAM

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT 3.11.4.2	2	04/26/2006	Title: RADIOACTIVE EFFLUENTS LAND USE CENSUS
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 POOL 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 REQUIREMENT
TEXT 4.1	0	08/31/1998	Title: ADMINISTRATIVE CONTROLS ORGANIZATION
TEXT 4.2	0	08/31/1998	Title: ADMINISTRATIVE CONTROLS REPORTABLE EVENT ACTION
TEXT 4.3	0	08/31/1998	Title: ADMINISTRATIVE CONTROLS SAFETY LIMIT VIOLATION
TEXT 4.4	1	12/18/2008	Title: ADMINISTRATIVE CONTROLS PROCEDURES & PROGRAMS
TEXT 4.5	0	08/31/1998	Title: ADMINISTRATIVE CONTROLS REPORTING REQUIREMENTS
TEXT 4.6	0	08/31/1998	Title: ADMINISTRATIVE CONTROLS RADIATION PROTECTION PROGRAM
TEXT 4.7	0	08/31/1998	Title: ADMINISTRATIVE CONTROLS TRAINING

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT B3.0 4 05/23/2008
Title: APPLICABILITY BASES TECHNICAL REQUIREMENT FOR OPERATION (TRO) APPLICABILITY

TEXT B3.1.1 1 11/09/2007
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 3 03/31/2006
Title: REACTIVITY CONTROL SYSTEMS BASES CONTROL ROD BLOCK INSTRUMENTATION

TEXT B3.1.4 0 11/19/2002
Title: REACTIVITY CONTROL SYSTEMS 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 3 12/18/2008
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

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT B3.3.7	1	11/09/2007	Title: INSTRUMENTATION BASES MAIN TURBINE OVERSPEED PROTECTION SYSTEM
TEXT B3.3.8	1	10/22/2003	Title: INSTRUMENTATION BASES TRM REACTOR PROTECTION SYSTEM (RPS) INSTRUMENTATION
TEXT B3.3.9	3	04/17/2008	Title: OPRM 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

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT B3.5.2	1	11/09/2007		
Title: ECCS AND RCIC BASES ECCS AND RCIC SYSTEM MONITORING INSTRUMENTATION				
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	2	04/17/2008		
Title: CONTAINMENT BASES SUPPRESSION POOL ALARM INSTRUMENTATION				
			LDCN	3933
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				

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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 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

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT B3.7.10 1 12/14/2004

Title: PLANT SYSTEMS BASES SPENT FUEL STORAGE POOLS

TEXT B3.7.11 0 04/16/2009

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

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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
TEXT B3.10.2	1	03/31/2006	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 B3.10.4	1	04/17/2008	Title: MISCELLANEOUS BASES LEADING EDGE FLOW METER (LEFM)
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

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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	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		

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

PPL Rev. 55

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
TOC	TABLE OF CONTENTS	04/07/2009
1.0	USE AND APPLICATION Pages TRM / 1.0-1 through TRM / 1.0-3	10/04/2002
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	04/02/1999
	Page TRM / 2.0-6	03/27/2008
	Page TRM / 2.0-7	05/15/2008
	Page TRM / 2.0-8	03/27/2008
	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	03/27/2008
	Pages TRM / 2.0-13 and TRM / 2.0-14	11/15/2004
	Page TRM / 2.0-15	11/15/2005
3.0	APPLICABILITY	
	Page TRM / 3.0-1	04/14/2008
	Page TRM / 3.0-2	04/12/2007
	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	03/22/2006
	Page TRM / 3.1-7	04/07/2009
	Page TRM / 3.1-8	03/27/2008
	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	07/07/1999
	Pages TRM / 3.2-2 through TRM / 3.2-54	01/14/2010
3.3	INSTRUMENTATION	
	Pages TRM / 3.3-1 through TRM / 3.3-3	07/16/1999
	Page TRM / 3.3-4 and TRM / 3.3-5	10/31/2007
	Page TRM / 3.3-6	08/31/1998
	Page TRM / 3.3-7	10/31/2007
	Page 3.3-8	08/31/1998
	Page TRM / 3.3-9	04/12/2007

LIST OF EFFECTIVE SECTIONS (TECHNICAL REQUIREMENTS MANUAL)

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
	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 through TRM / 3.3-21	10/22/2003
	Page TRM / 3.3-22	03/27/2008
	Page TRM / 3.3-22a	11/15/2004
	Pages TRM / 3.3-22b through TRM / 3.3-22d	03/22/2006
	Page TRM / 3.3-23	12/03/2004
	Pages TRM / 3.3-24 and TRM / 3.3-25	05/16/2003
	Page TRM / 3.3-26	10/22/2003
	Pages TRM / 3.3-27 and TRM / 3.3-28	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 TRM / 3.4-9	08/31/1998
	Page TRM / 3.4-10	10/31/2007
	Page TRM / 3.4-11	08/31/1998
	Page TRM / 3.4-12	03/27/2008
	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
	Pages TRM / 3.5-4 and TRM / 3.5-5	10/31/2007
	Pages 3.5-6 and 3.5-7	08/31/1998
3.6	CONTAINMENT	
	Pages 3.6-1 through 3.6-3	08/31/1998
	Page TRM / 3.6-4	01/07/2002
	Page 3.6-5	08/31/1998
	Pages TRM / 3.6-6 through TRM / 3.6-8	12/31/2002
3.7	PLANT SYSTEMS	
	Pages 3.7-1 through 3.7-3	08/31/1998
	Page TRM / 3.7-4	03/31/2006

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

PPL Rev. 55

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
	Pages 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	12/29/1999
	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	08/09/2005
	Page TRM / 3.7-30	01/13/2010
	Pages TRM / 3.7-31 and TRM / 3.7-32	11/16/2001
	Page TRM / 3.7-33	01/09/2004
	Page TRM / 3.7-34	11/16/2001
	Page TRM / 3.7-34a	10/05/2002
	Page TRM / 3.7-35	03/31/2006
	Pages TRM / 3.7-36 and TRM / 3.7-37	02/01/1999
	Pages 3.7-38 and 3.7-39	08/31/1998
	Page TRM / 3.7-40	03/31/2006
	Page TRM / 3.7-41	02/14/2005
	Page TRM / 3.7-41a	06/20/2008
	Page TRM / 3.7-42	09/04/2008
	Page TRM / 3.7-43	08/31/1998
	Pages TRM / 3.7-44 through TRM / 3.7-46	10/05/2006
	Page TRM / 3.7-47	06/07/2007
	Page TRM / 3.7-48	10/05/2006
	Page TRM / 3.7-49	06/07/2007
	Page TRM / 3.7-50	03/09/2001
	Page TRM / 3.7-51	08/16/2006
	Page TRM / 3.7-52	12/03/2004
	Page TRM / 3.7-53	04/15/2003
	Page TRM / 3.7-54	07/29/1999
	Pages TRM / 3.7-55 through TRM / 3.7-57	04/01/2009
3.8	ELECTRICAL POWER	
	Page TRM / 3.8-1	04/02/2002
	Pages TRM / 3.8-2 through TRM / 3.8-4	01/28/2005

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

PPL Rev. 55

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
	Pages TRM / 3.8-5 and TRM / 3.8-6	04/02/2002
	Page TRM / 3.8-7	10/31/2007
	Pages TRM / 3.8-8 through TRM / 3.8-10	12/03/2004
	Page TRM / 3.8-11	09/03/2004
	Page TRM / 3.8-12	12/03/2004
	Pages 3.8-13 and 3.8-14	08/31/1998
	Pages TRM / 3.8-15 through TRM / 3.8-17	04/02/2002
	Page 3.8-18	08/31/1998
	Page TRM / 3.8-19	04/02/2002
	Page 3.8-20	08/31/1998
	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
	Pages TRM / 3.8-28 and TRM / 3.8-29	05/28/2009
3.9	REFUELING OPERATIONS Pages 3.9-1 through 3.9-3	08/31/1998
3.10	MISCELLANEOUS Page TRM / 3.10-1 Pages 3.10-2 and 3.10-3 Pages 3.10-2 and 3.10-3 Page TRM / 3.10-4 Pages TRM / 3.10-5 and TRM / 3.10-6 Page TRM / 3.10-7	03/31/2006 08/31/1998 08/31/1998 08/01/2006 03/22/2006 03/31/2006
3.11	RADIOACTIVE EFFLUENTS Page TRM / 3.11-1 Pages 3.11-2 and 3.11-3 Page TRM / 3.11-4 Page 3.11-5 Page TRM / 3.11-6 Pages TRM / 3.11-7 through TRM / 3.11-9 Page TRM / 3.11-10 Pages 3.11-11 and 3.11-12 Page TRM / 3.11-13 Page TRM / 3.11-14 Pages 3.11-15 and 3.11-16 Page TRM / 3.11-17 Page 3.11-18 Page TRM / 3.11-19 Pages TRM / 3.11-20 and TRM / 3.11-21 Page TRM / 3.11-22 Page TRM / 3.11-23	03/31/2006 08/31/1998 03/31/2006 08/31/1998 03/31/2006 08/31/1998 12/03/2004 08/31/1998 04/12/2007 12/03/2004 09/01/1998 03/31/2006 08/31/1998 08/15/2005 03/31/2006 04/02/2002 11/14/2006

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

PPL Rev. 55

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
	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 3.11-43	08/31/1998
	Page TRM / 3.11-44	08/01/2006
	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

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

PPL Rev. 55

<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
	Page TRM / B 3.1-5	11/15/2005
	Pages TRM / B 3.1-6 and TRM / B 3.1-7	03/22/2006
	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
	Page TRM / B 3.3-3	12/11/2008
	Page 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	10/31/2007
	Pages TRM / B 3.3-15 and TRM / B 3.3-16	10/22/2003
	Page TRM / B 3.3-17	03/22/2006
	Pages TRM / B 3.3-17a through TRM / B 3.3-17c	03/22/2006
	Page TRM / B 3.3-17d	03/27/2008
	Pages TRM / B 3.3-17e and TRM / B 3.3-17f	03/22/2006
	Page TRM / B 3.3-18	12/11/2008
	Page TRM / B 3.3-19	05/16/2008
	Page TRM / B 3.3-20	10/22/2003
	Page TRM / B 3.3-21	05/16/2003
	Pages TRM / B 3.3-22 and TRM / B 3.3-23	04/07/2009

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

PPL Rev. 55

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
B 3.4	REACTOR COOLANT SYSTEM BASES	
	Page B 3.4-1	08/31/1998
	Pages TRM / B 3.4-2 and TRM / B 3.4-3	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 through 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	03/27/2008
	Page TRM / B 3.6-5	04/04/2007
	Page TRM / B 3.6-6	12/03/2004
	Pages 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
	Page TRM / B 3.7-6	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
	Page TRM / B 3.7-10a	03/31/2006
	Page TRM / B 3.7-11	08/02/1999
	Page TRM / B 3.7-11a	03/31/2006
	Pages TRM / B 3.7-12 through TRM / B 3.7-14	08/02/1999
	Page TRM / B 3.7-14a	08/02/1999
	Page 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
	Page TRM / B 3.7-22 and TRM / B 3.7-23	01/30/2008
	Pages TRM / B 3.7-24 through TRM / B 3.7-28	10/05/2006
	Pages TRM / B 3.7-29 and 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 3.7-31	12/03/2004
	Page TRM / B 3.7-32	03/09/2001

LIST OF EFFECTIVE SECTIONS (TECHNICAL REQUIREMENTS MANUAL)

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
	Page TRM / B 3.7-33	04/15/2003
	Page TRM / B 3.7-34	12/03/2004
	Page TRM / B 3.7-35	07/05/2000
	Pages TRM / B 3.7-36 through 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	08/10/2004
	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 3.8-16	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 through B 3.9-7	08/31/1998
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	03/22/2006
	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	08/30/1998
	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	08/30/1998
	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 and B 3.11-27	08/30/1998
	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 3.7-31 through B 3.7-35	08/30/1998
	Page TRM / B 3.11-36	02/12/1999

LIST OF EFFECTIVE SECTIONS (TECHNICAL REQUIREMENTS MANUAL)

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
B.3.12	LOADS CONTROL PROGRAM BASES Page TRM / B 3.12-1 Pages TRM / B 3.12-2 and TRM / B 3.12-3	09/19/2007 02/05/1999

TRM1 text LOES
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)

(continued)

B 3.8.1 Primary Containment Penetration Conductor Overcurrent Protective Devices

BASES

TRS
(continued)

circuit breakers, and 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 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
