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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: 03/27/2013

ADD MANUAL TABLE OF CONTENTS DATE: 04/25/2013

CATEGORY: DOCUMENTS TYPE: TRM1

ADD 1
NLR

ID: TEXT 3.4.6

ADD: REV: 2

REMOVE: REV:1

CATEGORY: DOCUMENTS TYPE: TRM1

ID: TEXT B3.4.6

ADD: REV: 2

REMOVE: REV:1

CATEGORY: DOCUMENTS TYPE: TRM1

ID: TEXT LOES

REMOVE: REV:74

ADD: REV: 75

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SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

Table Of Contents

Issue Date: 04/25/2013

<u>Procedure Name</u>	<u>Rev</u>	<u>Issue Date</u>	<u>Change ID</u>	<u>Change Number</u>
TEXT LOES	75	04/25/2013		
Title: LIST OF EFFECTIVE SECTIONS				
TEXT TOC	22	10/09/2012		
Title: TABLE OF CONTENTS				
TEXT 1.1	0	11/18/2002		
Title: USE AND APPLICATION DEFINITIONS				
TEXT 2.1	1	02/04/2005		
Title: PLANT PROGRAMS AND SETPOINTS PLANT PROGRAMS				
TEXT 2.2	9	01/13/2011		
Title: PLANT PROGRAMS AND SETPOINTS INSTRUMENT TRIP SETPOINT TABLE				
			LDCN	4414
TEXT 3.0	4	05/23/2008		
Title: TECHNICAL REQUIREMENT FOR OPERATION (TRO) APPLICABILITY & SURVEILLANCE (TRS) APPLICABILITY				
TEXT 3.1.1	1	11/09/2007		
Title: REACTIVITY CONTROL SYSTEMS ANTICIPATED TRANSIENT WITHOUT SCRAM ALTERNATE ROD INJECTION (ATWS-ARI) INSTRUMENTATION				
TEXT 3.1.2	0	11/18/2002		
Title: REACTIVITY CONTROL SYSTEMS CONTROL ROD DRIVE (CRD) HOUSING SUPPORT				
TEXT 3.1.3	5	04/16/2009		
Title: REACTIVITY CONTROL SYSTEMS CONTROL ROD BLOCK INSTRUMENTATION				
TEXT 3.1.4	0	11/18/2002		
Title: REACTIVITY CONTROL SYSTEMS CONTROL ROD SCRAM ACCUMULATORS INSTRUMENTATION & CHECK VALVE				
TEXT 3.2.1	13	04/10/2012		
Title: CORE OPERATING LIMITS REPORT (COLR)				

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 3 03/31/2011

Title: INSTRUMENTATION SEISMIC MONITORING INSTRUMENTATION

TEXT 3.3.3 2 11/09/2007

Title: INSTRUMENTATION METEOROLOGICAL MONITORING INSTRUMENTATION

TEXT 3.3.4 6 07/09/2010

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 3 01/13/2011

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

SSES 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 3.4.6 2 04/25/2013

Title: REACTOR RECIRCULATION SINGLE LOOP OPERATION SLO FLOW RATE RESTRICTION

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 1 08/23/2011

Title: SUPPRESSION CHAMBER TO DRYWELL VACUUM BREAKER POSITION INDICATION

TEXT 3.6.3 0 11/18/2002

Title: CONTAINMENT SUPPRESSION POOL ALARM INSTRUMENTATION

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT 3.6.4 0 11/18/2002

Title: CONTAINMENT PRIMARY CONTAINMENT CLOSED SYSTEM BOUNDARIES

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 10 09/27/2012

Title: PLANT SYSTEMS FIRE DETECTION INSTRUMENTATION

LDCN

3503

TEXT 3.7.4 1 04/26/2006

Title: PLANT SYSTEMS SOLID RADWASTE SYSTEM

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT 3.7.5.1 0 11/18/2002

Title: PLANT SYSTEMS MAIN CONDENSER OFFGAS HYDROGEN MONITOR

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 3 06/04/2012

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 2 04/05/2010

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

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT 3.8.3	1	04/05/2010	Title: ELECTRICAL POWER DIESEL GENERATOR (DG) MAINTENANCE ACTIVITIES
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	1	12/08/2011	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	2	06/15/2010	Title: MISCELLANEOUS INDEPENDENT SPENT FUEL STORAGE INSTALLATION (ISFSI)
TEXT 3.10.4	2	04/17/2008	Title: MISCELLANEOUS LEADING EDGE FLOW METER (LEFM)

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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		
TEXT 3.11.1.3	1	04/26/2006
Title: RADIOACTIVE EFFLUENTS LIQUID WASTE TREATMENT SYSTEM		
TEXT 3.11.1.4	2	10/09/2012
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		

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT 3.11.4.1 4 08/08/2006

Title: RADIOACTIVE EFFLUENTS MONITORING PROGRAM

LDCN

5007

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

SSSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT 4.7 0 08/31/1998

Title: ADMINISTRATIVE CONTROLS TRAINING

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 2 03/31/2011

Title: INSTRUMENTATION BASES SEISMIC MONITORING INSTRUMENTATION

TEXT B3.3.3 3 12/18/2008

Title: INSTRUMENTATION BASES METEOROLOGICAL MONITORING INSTRUMENTATION

TEXT B3.3.4 4 07/09/2010

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

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT B3.3.6 4 01/13/2011

Title: INSTRUMENTATION BASES TRM ISOLATION ACTUATION INSTRUMENTATION

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 3 08/09/2010

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

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT B3.4.6 2 04/25/2013

Title: REACTOR RECIRCULATION SINGLE LOOP OPERATION SLO FLOW RATE RESTRICTION

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

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 3 06/15/2010

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

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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

TEXT B3.7.3.6 1 04/26/2006

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

TEXT B3.7.3.7 0 11/19/2002

Title: PLANT SYSTEMS BASES FIRE RATED ASSEMBLIES

TEXT B3.7.3.8 3 09/27/2012

Title: PLANT SYSTEMS BASES FIRE DETECTION INSTRUMENTATION

TEXT B3.7.4 0 11/19/2002

Title: PLANT SYSTEMS BASES SOLID RADWASTE SYSTEM

TEXT B3.7.5.1 0 11/19/2002

Title: PLANT SYSTEMS BASES MAIN CONDENSER OFFGAS HYDROGEN MONITOR

TEXT B3.7.5.2 0 11/19/2002

Title: PLANT SYSTEMS BASES MAIN CONDENSER OFFGAS EXPLOSIVE GAS MIXTURE

TEXT B3.7.5.3 0 11/19/2002

Title: PLANT SYSTEMS BASES LIQUID HOLDUP TANKS

TEXT B3.7.6 3 06/04/2012

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

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT B3.7.8 3 06/21/2007

Title: PLANT SYSTEMS BASES SNUBBERS

TEXT B3.7.9 2 12/08/2011

Title: PLANT SYSTEMS BASES CONTROL STRUCTURE HVAC

TEXT B3.7.10 1 12/14/2004

Title: PLANT SYSTEMS BASES SPENT FUEL STORAGE POOLS

TEXT B3.7.11 1 04/14/2010

Title: STRUCTURAL INTEGRITY

TEXT B3.8.1 2 03/10/2010

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

TEXT B3.8.2.1 0 11/19/2002

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

TEXT B3.8.2.2 1 09/17/2004

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

TEXT B3.8.3 0 11/19/2002

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

TEXT B3.8.4 0 11/19/2002

Title: ELECTRICAL POWER BASES 24 VDC ELECTRICAL POWER SUBSYSTEM

TEXT B3.8.5 0 11/19/2002

Title: ELECTRICAL POWER BASES DEGRADED VOLTAGE PROTECTION

TEXT B3.8.6 2 12/08/2011

Title: ELECTRICAL POWER BASES EMERGENCY SWITCHGEAR ROOM COOLING

TEXT B3.8.7 1 06/15/2009

Title: BATTERY MAINTENANCE AND MONITORING PROGRAM

SSSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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

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

SSSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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

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 3 07/09/2010

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 1 12/03/2010

Title: LOADS CONTROL PROGRAM BASES HEAVY LOADS REQUIREMENTS

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT B3.12.3

0 11/19/2002

Title: LOADS CONTROL PROGRAM BASES LIGHT LOADS REQUIREMENTS

LIST OF EFFECTIVE SECTIONS (TECHNICAL REQUIREMENTS MANUAL)

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
TOC	TABLE OF CONTENTS	10/09/2012
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
	Pages TRM / 2.0-8 and TRM / 2.0-9	01/07/2011
	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	04/09/2012
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	03/10/2011
	Page TRM / 3.3-7	10/31/2007
	Page 3.3-8	08/31/1998
	Pages TRM / 3.3-9 and TRM / 3.3-9a	06/30/2010

LIST OF EFFECTIVE SECTIONS (TECHNICAL REQUIREMENTS MANUAL)

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
	Page TRM / 3.3-10	10/31/2007
	Pages TRM / 3.3-11 and TRM / 3.3-11a	06/30/2010
	Page TRM / 3.3-12	03/30/2001
	Page TRM / 3.3-13	01/07/2011
	Page TRM / 3.3-14	12/14/1998
	Pages TRM / 3.3-15 and TRM / 3.3-16	01/07/2011
	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
	Pages TRM / 3.4-14 and TRM / 3.4-15	04/25/2013
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	
	Page 3.6-1	08/31/1998
	Pages TRM / 3.6-2 and TRM / 3.6-2a	08/11/2011
	Page 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

LIST OF EFFECTIVE SECTIONS (TECHNICAL REQUIREMENTS MANUAL)

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
3.7	PLANT SYSTEMS	
	Pages 3.7-1 through 3.7-3	08/31/1998
	Page TRM / 3.7-4	03/31/2006
	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
	Page TRM / 3.7-25	08/02/1999
	Page TRM / 3.7-26	09/25/2012
	Page TRM / 3.7-27	11/24/2011
	Pages TRM / 3.7-28 through TRM / 3.7-34a	09/25/2012
	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	05/24/2012
	Pages TRM / 3.7-41a through TRM / 3.7-41c	05/24/2012
	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

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
	Page TRM / 3.8-2	01/28/2005
	Pages TRM / 3.8-3 and TRM / 3.8-4	03/25/2010
	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
	Page TRM / 3.8-13	03/25/2010
	Page TRM / 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 TRM / 3.8-24 and TRM / 3.8-25	11/30/2011
	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	03/31/2006
	Pages 3.10-2 and 3.10-3	08/31/1998
	Pages 3.10-2 and 3.10-3	08/31/1998
	Page TRM / 3.10-4	08/01/2006
	Pages TRM / 3.10-5 and TRM / 3.10-6	03/22/2006
	Page TRM / 3.10-7	06/10/2010
3.11	RADIOACTIVE EFFLUENTS	
	Page TRM / 3.11-1	03/31/2006
	Pages 3.11-2 and 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 TRM / 3.11-7 and TRM / 3.11-8	08/31/1998
	Pages TRM / 3.11-9 and TRM / 3.11-10	10/09/2012
	Pages TRM / 3.11-11 and TRM / 3.11-12	08/31/1998
	Page TRM / 3.11-13	04/12/2007

LIST OF EFFECTIVE SECTIONS (TECHNICAL REQUIREMENTS MANUAL)

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
	Page TRM / 3.11-14	12/03/2004
	Pages 3.11-15 and 3.11-16	09/01/1998
	Page TRM / 3.11-17	03/31/2006
	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 3.11-43	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

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
	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
	Page TRM / B 3.3-2	03/10/2011
	Page 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
	Page TRM / B 3.3-4	06/30/2010
	Page TRM / B 3.3-5	05/30/2006
	Page TRM / B 3.3-6	06/30/2010
	Page TRM / B 3.3-7	10/30/2007
	Page TRM / B. 3.3-8	06/30/2010
	Page TRM / B 3.3-9	10/31/2007
	Pages TRM / B 3.3-10 through TRM / B 3.3-13	01/07/2011
	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

LIST OF EFFECTIVE SECTIONS (TECHNICAL REQUIREMENTS MANUAL)

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
	Pages TRM / B 3.3-17e and TRM / B 3.3-17f	03/22/2006
	Pages TRM / B 3.3-18 and TRM / B 3.3-19	08/03/2010
	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
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
	Pages TRM / B 3.4-7 and TRM / B 3.4-8	04/25/2013
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
	Page TRM / B 3.7-3	06/10/2010
	Page 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 and TRM / B 3.7-13	08/02/1999
	Pages TRM / B 3.7-14 and TRM / B 3.7-14a	09/25/2012

LIST OF EFFECTIVE SECTIONS (TECHNICAL REQUIREMENTS MANUAL)

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
	Page TRM / B 3.7-14b	11/24/2011
	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	05/24/2012
	Pages TRM / B 3.7-21a through TRM / B 3.7-21g	05/24/2012
	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	11/30/2011
	Page TRM / B 3.7-32	03/09/2001
	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 3.7-39	04/01/2009
	Page TRM / B 3.7-40	04/08/2010
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	11/30/2011
	Pages TRM / B 3.8-17a and TRM / B 3.8-17b	11/30/2011
	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

LIST OF EFFECTIVE SECTIONS (TECHNICAL REQUIREMENTS MANUAL)

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
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	06/30/2010
	Pages B 3.11-31 and B 3.11-32	08/30/1998
	Page TRM / B 3.11-33	06/30/2010
	Pages TRM / B 3.11-34 and TRM / B 3.11-35	08/30/1998
	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
	Page TRM / B 3.12-2	11/29/2010
	Page TRM / B 3.12-3	02/05/1999

TRM1 text LOES
4/23/2013

3.4 Reactor Coolant System (RCS)

3.4.6 Reactor Recirculation Single Loop Operation (SLO) Flow Rate Restriction

TRO 3.4.6 In single loop operation, establish operating Reactor Recirculation Loop Flow Rate to less than or equal to 54.0 Mlbm/hr

APPLICABILITY: MODES 1 and 2

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Requirements of the TRO not met	A.1 Restore Reactor Recirculation flow rate to within limits	2 hours
B. Requirements of Condition A not met	B.1 Place Reactor Mode Switch in Shutdown	Immediately
	AND B.2 Restore Reactor Recirculation loop flow rate to within limits	Immediately

(continued)

TECHNICAL REQUIREMENT SURVEILLANCE

SURVEILLANCE	FREQUENCY
TRS 3.4.6.1 Verify the operating loop flow rate is less than or equal to 54.0 Mlbm/hr.	Once every four hours

B 3.4.6 Reactor Recirculation Single Loop Operation (SLO) Flow Rate Restriction

BASES

TRO TRO 3.4.6 requires that the operating loop flow rate be maintained less than or equal to 54.0 Mlbm/hr during single loop operation. Single loop operation includes events that require a recirculation loop to be declared "not in operation" due to Technical Specification 3.4.1 Condition B. Note that the parameter of concern is the 3 minute average recirculation system loop flow (e.g., PICSY point NJF02B and NJF03B) not core flow. This restriction avoids excessive vibration of jet pump components. Fatigue usage can be accumulated when loop flow rates are above 54 Mlbm/hr if large gaps are present. Excessive vibration can lead to cracking of the jet pump riser brace welds. The limitation contained in this TRO will assure jet pump integrity will be maintained and thus the FSAR Chapter 15 analysis assumption of maintaining 2/3 core height will be met. Additionally, these measures will assure asset preservation and avoid lengthy repairs due to potential riser brace cracking. The required action to place the reactor mode switch in shutdown in 2 hours assures the flow rate is established within limits. The time frames are required to avoid excessive vibrations that occur at higher loop flow rates and the subsequent impact on jet pump riser brace.

APPLICABILITY This Requirement is applicable whenever in reactor recirculation single loop operation in Modes 1 and 2. Single loop operation includes events that require a recirculation loop to be declared "not in operation" due to Technical Specification 3.4.1 Condition B.

ACTIONS The Actions assure that excessive jet pump vibration can not occur when in single loop operation.

TRS The required surveillance assures that the maximum loop flow rate is not exceeded.

(continued)

B 3.4.6 Reactor Recirculation Single Loop Operation (SLO) Flow Rate Restriction

BASES

- REFERENCES
1. FSAR Section 15.6
 2. GE Report 0000-0144-9821 R1, "Jet Pump 11 and 12 Fatigue Usage Reduction Detailed Analysis" July 2012.
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