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TRM2 - TECHNICAL REQUIREMENTS MANUAL UNIT 2

REMOVE MANUAL TABLE OF CONTENTS DATE: 01/07/2008

ADD MANUAL TABLE OF CONTENTS DATE: 01/31/2008

CATEGORY: DOCUMENTS TYPE: TRM2

A001

NRR

ID: TEXT 3.12.2
REMOVE: REV:2

ADD: REV: 3

CATEGORY: DOCUMENTS TYPE: TRM2
ID: TEXT 3.7.7
ADD: REV: 1

REMOVE: REV:0

CATEGORY: DOCUMENTS TYPE: TRM2
ID: TEXT B3.7.7
ADD: REV: 2

REMOVE: REV:1

CATEGORY: DOCUMENTS TYPE: TRM2
ID: TEXT LOES
ADD: REV: 43

REMOVE: REV:42

CATEGORY: DOCUMENTS TYPE: TRM2
ID: TEXT TOC
REMOVE: REV:12

ADD: REV: 13

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Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

Table Of Contents

Issue Date: 01/31/2008

Procedure Name	Rev	Issue Date	Change ID	Change Number
TEXT LOES	43	01/31/2008		
Title: LIST OF EFFECTIVE SECTIONS				
TEXT TOC	13	01/31/2008		
Title: TABLE OF CONTENTS				
TEXT 1.1	0	11/19/2002		
Title: USE AND APPLICATION DEFINITIONS				
TEXT 2.1	1	02/04/2005		
Title: PLANT PROGRAMS AND SETPOINTS PLANT PROGRAMS				
TEXT 2.2	6	04/09/2007		
Title: PLANT PROGRAMS AND SETPOINTS INSTRUMENT TRIP SETPOINT TABLE				
TEXT 3.0	3	05/02/2007		
Title: APPLICABILITY TECHNICAL REQUIREMENT FOR OPERATION (TRO) 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	11/19/2002		
Title: REACTIVITY CONTROL SYSTEMS CONTROL ROD DRIVE (CRD) HOUSING SUPPORT				
TEXT 3.1.3	3	04/09/2007		
Title: REACTIVITY CONTROL SYSTEMS CONTROL ROD BLOCK INSTRUMENTATION				
TEXT 3.1.4	0	11/19/2002		
Title: REACTIVITY CONTROL SYSTEMS CONTROL ROD SCRAM ACCUMULATORS INSTRUMENTATION AND CHECK VALVE				
TEXT 3.2.1	7	04/19/2007		
Title: CORE OPERATING LIMITS CORE OPERATING LIMITS REPORT (COLR)				

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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 4 11/09/2007
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 2 04/09/2007
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 3.4.1 1 04/26/2006
Title: REACTOR COOLANT SYSTEM REACTOR COOLANT SYSTEM CHEMISTRY

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

TEXT 3.4.2 0 11/19/2002
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 1 12/14/2004
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

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

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

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

TEXT 3.7.3.1 1 04/26/2006
Title: PLANT SYSTEMS FIRE SUPPRESSION WATER SUPPLY SYSTEM

TEXT 3.7.3.2 2 04/26/2006
Title: PLANT SYSTEMS SPRAY AND SPRINKLER SYSTEMS

TEXT 3.7.3.3 2 08/18/2005
Title: PLANT SYSTEMS CO2 SYSTEMS

TEXT 3.7.3.4 1 04/26/2006
Title: PLANT SYSTEMS HALON SYSTEMS

TEXT 3.7.3.5 1 04/26/2006
Title: PLANT SYSTEMS FIRE HOSE STATIONS

TEXT 3.7.3.6 1 04/26/2006
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 11/09/2007
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

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

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

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

TEXT 3.7.6 1 03/01/2005
Title: PLANT SYSTEMS ESSW PUMPHOUSE VENTILATION

TEXT 3.7.7 1 01/31/2008
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 3.8.1 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

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

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

TEXT 3.8.6 0 11/19/2002
Title: ELECTRICAL POWER EMERGENCY SWITCHGEAR ROOM COOLING

TEXT 3.8.7 0 12/14/2006
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 3.10.4 1 08/28/2006
Title: MISCELLANEOUS LEADING EDGE FLOW METER (LEFM)

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

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

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 3 05/02/2007
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

TEXT 3.11.4.3 1 04/26/2006
Title: RADIOACTIVE EFFLUENTS INTERLABORATORY COMPARISON PROGRAM

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

TEXT 3.12.1 0 11/19/2002
Title: LOADS CONTROL PROGRAM CRANE TRAVEL-SPENT FUEL STORAGE POOL

TEXT 3.12.2 3 01/31/2008
Title: LOADS CONTROL PROGRAM HEAVY LOADS REQUIREMENTS

TEXT 3.12.3 0 11/19/2002
Title: LOADS CONTROL PROGRAM LIGHT LOADS REQUIREMENTS

TEXT B3.0 3 05/02/2007
Title: APPLICABILITY BASES TECHNICAL REQUIREMENT FOR OPERATION (TRO) APPLICABILITY

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

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

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

TEXT B3.3.8 1 10/22/2003
Title: INSTRUMENTATION BASES TRM RPS INSTRUMENTATION

TEXT B3.3.9 2 04/10/2007
Title: INSTRUMENTATION BASES LPRM UPSCALE ALARM INSTRUMENTATION

TEXT B3.3.10 0 11/19/2002
Title: INSTRUMENTATION BASES REACTOR RECIRCULATION PUMP MG SET STOPS

TEXT B3.3.11 1 10/22/2003
Title: INSTRUMENTATION BASES MVP ISOLATION INSTRUMENTATION

TEXT B3.4.1 0 11/19/2002
Title: REACTOR COOLANT SYSTEM BASES REACTOR COOLANT SYSTEM CHEMISTRY

TEXT B3.4.2 0 11/19/2002
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

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

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

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

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

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 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 1 03/01/2005
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

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

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

TEXT B3.8.1 1 02/04/2005
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 0 12/14/2006
Title: BATTERY MAINTENANCE AND MONITORING PROGRAM

TEXT B3.9.1 0 11/19/2002
Title: REFUELING OPERATIONS BASES DECAY TIME

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

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 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 B3.10.4 0 11/19/2002
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

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

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 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

Manual Name: TRM2

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

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 0 09/27/2003
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

SECTION	TITLE	PAGE
1.0	USE AND APPLICATION	1.0-1
1.1	Definitions	TRM/1.0-2
2.0	PLANT PROGRAMS	2.0-1
2.1	Plant Programs	2.0-1
2.2	Instrument Trip Setpoint Table	TRM/2.0-5
3.0	APPLICABILITY	TRM/3.0-1
3.0	(TRO) - TR for Operation (TRO) Applicability	TRM/3.0-1
3.0	(TRS) - TR Surveillance (TRS) Applicability	TRM/3.0-3
3.1	REACTIVITY CONTROL SYSTEMS	TRM/3.1-1
3.1.1	Alternate Rod Injection	TRM/3.1-1
3.1.2	CRD Housing Support	3.1-4
3.1.3	Control Rod Block Instrumentation	3.1-5
3.1.4	Control Rod Scram Accumulators Instrumentation and Check Valve	TRM/3.1-9
3.2	CORE OPERATING LIMITS REPORT	3.2-1
3.2.1	Core Operating Limits Report	3.2-1
3.3	INSTRUMENTATION	TRM/3.3-1
3.3.1	Radiation Monitoring Instrumentation	TRM/3.3-1
3.3.2	Seismic Monitoring Instrumentation	TRM/3.3-4
3.3.3	Meteorological Monitoring Instrumentation	TRM/3.3-7
3.3.4	TRM Post-Accident Monitoring Instrumentation	TRM/3.3-9
3.3.5	Section Not Used	TRM/3.3-12
3.3.6	TRM Containment Isolation Instrumentation	TRM/3.3-13
3.3.7	Turbine Overspeed Protection System	TRM/3.3-17
3.3.8	Section Not Used	TRM/3.3-19
3.3.9	OPRM Instrumentation	TRM/3.3-21
3.3.10	Reactor Recirculation Pump MG Set Electrical and Mechanical Stops	TRM/3.3-22
3.3.11	MVP Isolation Instrumentation	TRM/3.3-24
3.4	REACTOR COOLANT SYSTEM	TRM/3.4-1
3.4.1	Reactor Coolant System Chemistry	3.4-1
3.4.2	Structural Integrity	3.4-6
3.4.3	High/Low Pressure Interface Leakage Monitors	3.4-9
3.4.4	Reactor Recirculation Flow and Rod Line Limit	TRM/3.4-12
3.4.5	Reactor Vessel Material Surveillances Program	TRM/3.4-13
3.5	EMERGENCY CORE COOLING AND RCIC	TRM/3.5-1
3.5.1	ADS Manual Inhibit	TRM/3.5-1
3.5.2	ECCS and RCIC System Monitoring Instrumentation	3.5-3
3.5.3	Long Term Nitrogen Supply to ADS	3.5-6

CONTROLLED

SECTION	TITLE	PAGE
3.6	CONTAINMENT	3.6-1
3.6.1	VENTING or PURGING	3.6-1
3.6.2	Suppression Chamber-to-Drywell Vacuum Breaker Position Indication	3.6-3
3.6.3	Suppression Pool Alarm Instrumentation	3.6-4
3.6.4	Primary Containment Closed System Boundaries	TRM/3.6-7
3.7	PLANT SYSTEMS	TRM/3.7-1
3.7.1	Emergency Service Water System (Shutdown)	TRM/3.7-1
3.7.2	Ultimate Heat Sink and Ground Water Level	3.7-3
3.7.3.1	Fire Suppression Water Supply System	TRM/3.7-4
3.7.3.2	Spray and Sprinkler Systems	TRM/3.7-8
3.7.3.3	CO2 systems	TRM/3.7-12
3.7.3.4	Halon Systems	TRM/3.7-16
3.7.3.5	Fire Hose Stations	TRM/3.7-18
3.7.3.6	Yard Fire Hydrants and Hydrant Hose Houses	TRM/3.7-22
3.7.3.7	Fire Rated Assemblies	TRM/3.7-24
3.7.3.8	Fire Detection Instrumentation	TRM/3.7-26
3.7.4	Solid Radwaste System	TRM/3.7-34
3.7.5.1	Main Condenser Offgas Hydrogen Monitor	3.7-37
3.7.5.2	Main Condenser Explosive Gas Mixture	TRM/3.7-38
3.7.5.3	Liquid Holdup Tanks	TRM/3.7-39
3.7.6	ESSW Pumphouse Ventilation	3.7-40
3.7.7	Main Condenser Offgas Pretreatment Logarithmic Radiation Monitoring Instrumentation	TRM/3.7-41
3.7.8	Snubbers	TRM/3.7-43
3.7.9	Control Structure HVAC	TRM/3.7-49
3.7.10	Spent Fuel Storage Pools (SFSPs)	TRM/3.7-51
3.8	ELECTRICAL POWER	TRM/3.8-1
3.8.1	Primary Containment Penetration Conductor Overcurrent Protective Devices	TRM/3.8-1
3.8.2.1	Motor Operated Valves Thermal Overload Protection - Continuous	TRM/3.8-5
3.8.2.2	Motor Operated Valves Thermal Overload Protection - Automatic	TRM/3.8-11
3.8.3	Diesel Generator (DG) Maintenance Activities	3.8-13
3.8.4	24VDC Electrical Power Subsystem	TRM/3.8-15
3.8.5	Degraded Voltage Protection	TRM/3.8-21
3.8.6	Emergency Switchgear Room Cooling	3.8-24
3.8.7	Battery Monitoring and Maintenance Program	TRM/3.8-26
3.9	REFUELING OPERATIONS	3.9-1
3.9.1	Decay Time	3.9-1
3.9.2	Communications	3.9-2
3.9.3	Refueling Platform	3.9-3

SECTION	TITLE	PAGE
3.10	MISCELLANEOUS	TRM/3.10-1
3.10.1	Sealed Source Contamination	TRM/3.10-1
3.10.2	MODE 5 Shutdown Margin Test RPS Instrumentation	3.10-4
3.10.3	Independent Spent Fuel Storage Installation (ISFSI)	TRM/3.10-7
3.10.4	Leading Edge Flow Meter (LEFM)	TRM/3.10-8
3.11	RADIOACTIVE EFFLUENTS	TRM/3.11-1
3.11.1	Liquid Effluents	TRM/3.11-1
3.11.1.1	Liquid Effluents Concentration	TRM/3.11-1
3.11.1.2	Liquid Effluents Dose	TRM/3.11-4
3.11.1.3	Liquid Waste Treatment System	TRM/3.11-6
3.11.1.4	Liquid Radwaste Effluent Monitoring Instrumentation	3.11-8
3.11.1.5	Radioactive Liquid Process Monitoring Instrumentation	TRM/3.11-13
3.11.2	Gaseous Effluents	TRM/3.11-17
3.11.2.1	Dose Rate	TRM/3.11-17
3.11.2.2	Dose - Noble Gases	TRM/3.11-20
3.11.2.3	Dose - Iodine, Tritium, and Radionuclides in Particulate Form	TRM/3.11-21
3.11.2.4	Gaseous Radwaste Treatment System	TRM/3.11-22
3.11.2.5	Ventilation Exhaust Treatment System	TRM/3.11-23
3.11.2.6	Radioactive Gaseous Effluent Monitoring Instrumentation	3.11-26
3.11.3	Total Dose	TRM/3.11-33
3.11.4	Radiological Environmental Monitoring	TRM/3.11-35
3.11.4.1	Monitoring Program	TRM/3.11-35
3.11.4.2	Land Use Census	TRM/3.11-45
3.11.4.3	Interlaboratory Comparison Program	TRM/3.11-47
3.12	LOADS CONTROL PROGRAM	TRM/3.12-1
3.12.1	Crane Travel - Spent Fuel Storage Pool	TRM/3.12-1
3.12.2	Heavy Loads Requirements	TRM/3.12.3
3.12.3	Light Loads Requirements	TRM/3.12-5
4.0	ADMINISTRATIVE CONTROLS	4.0-1
4.1	Organization	4.0-1
4.2	Reportable Event Action	4.0-2
4.3	Safety Limit Violation	4.0-3
4.4	Procedures and Programs	4.0-4
4.5	Reporting Requirements	4.0-5
4.6	Radiation Protection Program	4.0-7
4.7	Training	4.0-8

SECTION	TITLE	PAGE
B 3.0	(TRO) - TR for Operation (TRO) Applicability	B 3.0-1
B 3.0	(TRS) - TR Surveillance (TRS) Applicability	B 3.0-9
B 3.1.1	Alternate Rod Injection	TRM/B 3.1-1
B 3.1.2	CRD Housing Support	B 3.1-4
B 3.1.3	Control Rod Block Instrumentation	TRM/B 3.1-5
B 3.1.4	Control Rod Scram Accumulators Instrumentation and Check Valve	TRM/B 3.1-8
B 3.2.1	Core Operating Limits Report (COLR)	B 3.2-1
B 3.3.1	Radiation Monitoring Instrumentation	TRM/B 3.3-1
B 3.3.2	Seismic Monitoring Instrumentation	TRM/B 3.3-2
B 3.3.3	Meteorological Monitoring Instrumentation	TRM/B 3.3-3
B 3.3.4	TRM Post-Accident Monitoring Instrumentation	TRM/B 3.3-4
B 3.3.5	Section Not Used	TRM/B 3.3-9
B 3.3.6	TRM Containment Isolation Instrumentation	B 3.3-10
B 3.3.7	Turbine Overspeed Protection System	TRM/B 3.3-14
B 3.3.8	Section Not Used	TRM/B 3.3-15
B 3.3.9	OPRM Instrumentation	TRM/B 3.3-18
B 3.3.10	Reactor Recirculation Pump MG Set Electrical and Mechanical Stops	TRM/B 3.3-20
B 3.3.11	MVP Isolation Instrumentation	TRM/B 3.3-22
B 3.4.1	Reactor Coolant System Chemistry	B 3.4-1
B 3.4.2	Structural Integrity	B 3.4-2
B 3.4.3	High/Low Pressure Interface Leakage Monitors	TRM/B 3.4-4
B 3.4.4	Reactor Recirculation Flow and Rod Line Limit	TRM/B 3.4-5
B 3.4.5	Reactor Vessel Material Surveillances Program	B 3.4-6
B 3.5.1	ADS Manual Inhibit	B 3.5-1
B 3.5.2	ECCS and RCIC System Monitoring Instrumentation	TRM/B 3.5-3
B 3.5.3	Long Term Nitrogen Supply to ADS	B 3.5-4
B 3.6.1	VENTING or PURGING	TRM/B 3.6-1
B 3.6.2	Suppression Chamber-to-Drywell Vacuum Breaker Position Indication	B 3.6-3
B 3.6.3	Suppression Pool Alarm Instrumentation	B 3.6-4
B 3.6.4	Primary Containment Closed System Boundaries	TRM/B 3.6-6
B 3.7.1	Emergency Service Water System (Shutdown)	B 3.7-1
B 3.7.2	Ultimate Heat Sink and Ground Water Level	B 3.7-2
B 3.7.3.1	Fire Suppression Water Supply System	TRM/B 3.7-3
B 3.7.3.2	Spray and Sprinkler Systems	TRM/B 3.7-5
B 3.7.3.3	CO2 Systems	TRM/B 3.7-7

SECTION	TITLE	PAGE
B 3.7.3.4	Halon Systems	TRM/B 3.7-8
B 3.7.3.5	Fire Hose Stations	TRM/B 3.7-10
B 3.7.3.6	Yard Fire Hydrants and Hydrant Hose Houses	TRM/B 3.7-11
B 3.7.3.7	Fire Rated Assemblies	TRM/B 3.7-12
B 3.7.3.8	Fire Detection Instrumentation	TRM/B 3.7-14
B 3.7.4	Solid Radwaste System	TRM/B 3.7-15
B 3.7.5.1	Main Condenser Offgas Hydrogen Monitor	B 3.7-17
B 3.7.5.2	Main Condenser Explosive Gas Mixture	B 3.7-19
B 3.7.5.3	Liquid Holdup Tanks	B 3.7-20
B 3.7.6	ESSW Pumphouse Ventilation	TRM/B 3.7-21
B 3.7.7	Main Condenser Offgas Pretreatment Logarithmic Radiation Monitoring Instrumentation	TRM/B 3.7-22
B 3.7.8	Snubbers	TRM/B 3.7-24
B 3.7.9	Control Structure HVAC	TRM/B 3.7-31
B 3.7.10	Spent Fuel Storage Pools	TRM/B 3.7-33
B 3.8.1	Primary Containment Penetration Conductor Overcurrent Protective Devices	TRM/B 3.8-1
B 3.8.2.1	Motor Operated Valves Thermal Overload Protection - Continuous	TRM/B 3.8-3
B 3.8.2.2	Motor Operated Valves Thermal Overload Protection - Automatic	TRM/B 3.8-4
B 3.8.3	Diesel Generator (DG) Maintanence Activities	TRM/B 3.8-5
B 3.8.4	24VDC Electrical Power Subsystem	TRM/B 3.8-6
B 3.8.5	Degraded Voltage Protection	TRM/B 3.8-16
B 3.8.6	Emergency Switchgear Room Cooling	TRM/B 3.8-17
B 3.8.7	Battery Monitoring and Maintenance Program	TRM/B 3.8-18
B.3.9.1	Decay Time	B 3.9-1
B 3.9.2	Communications	B 3.9-2
B 3.9.3	Refueling Platform	B 3.9-3
B 3.10.1	Sealed Source Contamination	B 3.10-1
B 3.10.2	MODE 5 Shutdown Margin Test RPS Instrumentation	B 3.10-2
B 3.10.3	Independent Spent Fuel Storage Installation (ISFSI)	TRM/B 3.10-4
B 3.10.4	Leading Edge Flow Meter (LEFM)	TRM/B 3.10-6
B 3.11.1.1	Liquid Effluents Concentration	B 3.11-1
B 3.11.1.2	Liquid Effluents Dose	B 3.11-4
B 3.11.1.3	Liquid Waste Treatment System	B 3.11-6
B 3.11.1.4	Liquid Radwaste Effluent Monitoring Instrumentation	B 3.11-7
B 3.11.1.5	Radioactive Liquid Process Monitoring Instrumentation	TRM/B 3.11-10
B 3.11.2.1	Dose Rate	TRM/B 3.11-12
B 3.11.2.2	Dose - Noble Gases	B 3.11-16

SECTION	TITLE	PAGE
B 3.11.2.3	Dose - Iodine, Tritium, and Radionuclides in Particulate Form	B 3.11-18
B 3.11.2.4	Gaseous Radwaste Treatment System	TRM/B 3.11-20
B 3.11.2.5	Ventilation Exhaust Treatment System	TRM/B 3.11-21
B 3.11.2.6	Radioactive Gaseous Effluent Monitoring Instrumentation	TRM/B 3.11-24
B 3.11.3	Total Dose	B 3.11-26
B 3.11.4.1	Monitoring Program	TRM/B 3.11-28
B 3.11.4.2	Land Use Census	B 3.11-34
B 3.11.4.3	Interlaboratory Comparison Program	TRM/B 3.11-36
B 3.12	LOADS CONTROL PROGRAM	TRM/B 3.12-1
B.3.12.1	Crane Travel - Spent Fuel Storage Pool	TRM/B 3.12-1
B.3.12.2	Heavy Loads Requirements	TRM/B 3.12-2
B.3.12.3	Light Loads Requirements	TRM/B 3.12-3

TRM2 Text TOC
1/28/08

Section	Title	Effective Date
TOC	TABLE OF CONTENTS	01/30/2008
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
	Pages TRM / 2.0-6 and TRM / 2.0-7	03/27/2007
	Page TRM / 2.0-8	12/03/2004
	Pages TRM / 2.0-9 through TRM / 2.0-11	11/15/2004
	Page TRM / 2.0-12	03/27/2007
	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	01/10/2007
	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
	Pages TRM / 3.1-6 through 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 / 3.2-48	03/30/2007
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
	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	05/30/2006

Section	Title	Effective Date
	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	03/27/2007
	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
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 3.4-6 through 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	12/03/2004
	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
3.7	PLANT SYSTEMS	
	Pages TRM / 3.7-1 and TRM / 3.7-2	07/29/1999
	Page 3.7-3	08/31/1998
	Pages TRM / 3.7-4 and TRM / 3.7-5	03/31/2006
	Pages TRM / 3.7-6 through TRM / 3.7-8	08/02/1999
	Page TRM / 3.7-9	03/31/2006
	Page TRM / 3.7-10	08/16/2005
	Page TRM / 3.7-11	01/21/2000
	Pages TRM / 3.7-12 and TRM / 3.7-13	08/02/1999
	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	03/31/2006

Section	Title	Effective Date
	Page TRM / 3.7-18	08/02/1999
	Page TRM / 3.7-19	03/31/2006
	Pages TRM / 3.7-20 through TRM / 3.7-22	08/02/1999
	Pages TRM / 3.7-23 and 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	11/16/2001
	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
	Pages TRM / 3.7-40 and TRM / 3.7-40a	02/14/2005
	Page TRM / 3.7-41	01/30/2008
	Page 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
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
	Pages TRM / 3.8-26 through TRM / 3.8-29	11/29/2006

Section	Title	Effective Date
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
	Page TRM / 3.10-8	08/16/2006
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
	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 through TRM / 3.11-28	01/21/2004
	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

Section	Title	Effective Date
3.12	LOADS CONTROL PROGRAM	
	Pages TRM / 3.12-1 through TRM / 3.12-3	02/05/1999
	Page TRM / 3.12-4	01/30/2008
	Page TRM / 3.12-5	02/05/1999
4.0	ADMINISTRATIVE CONTROLS	
	Pages 4.0-1 through 4.0-8	08/31/1998

Section	Title	Effective Date
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
	Pages TRM / B 3.0-5 and 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 through TRM / B 3.3-19e	03/27/2007
	Pages TRM / B 3.3-20 and 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
B 3.4	REACTOR COOLANT SYSTEM BASES	
	Pages B 3.4-1 through B 3.4-3	08/31/1998
	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

Section	Title	Effective Date
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
	Pages TRM / B 3.7-21 and TRM / B3.7-21a	02/14/2005
	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 3.7-31	12/03/2004
	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

Section	Title	Effective Date
B 3.8	ELECTRICAL POWER BASES	
	Page TRM / B 3.8-1	04/02/2002
	Pages TRM / B 3.8-2 and TRM / B 3.8-2a	01/28/2005
	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 3.8-24	11/29/2006
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
	Pages TRM / B 3.10-6 and TRM / 3.10-7	04/17/2002
B 3.11	RADIOACTIVE EFFLUENTS BASES	
	Pages B 3.11-1 through B 3.11-9	08/31/1998
	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
	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
1/28/08

3.7 Plant Systems

3.7.7 Main Condenser Offgas Pretreatment Logarithmic Radiation Monitoring Instrumentation

TRO 3.7.7 One channel of Main Condenser Offgas Pretreatment Logarithmic Radiation Monitoring Instrumentation shall be OPERABLE.

APPLICABILITY: During operation of the Main Condenser Air Ejector and Offgas Treatment System.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A Main Condenser Offgas Pretreatment Logarithmic Radioactivity Monitor inoperable.	A.1 Verify that the Offgas System is not bypassed	Immediately
	AND	
	A.2 Verify the turbine building vent monitor low range noble gas channel is in operation	Immediately
	AND	
	A.3 Perform TS SR 3.7.5.1	Once per 24 hours
	AND	
	A.4 Restore Main Condenser Offgas Pretreatment Radioactivity Monitor to OPERABLE status	72 hours
B. Main Condenser Offgas Pretreatment Logarithmic Radioactivity Monitor and Turbine Building Vent Monitor Low Range Noble Gas Channel inoperable	B.1 Verify that the Offgas System is not bypassed	Immediately
	AND	
	B.2 Perform TS SR 3.7.5.1	Once per 4 hours
	AND	
	B.3 Restore Main Condenser Offgas Pretreatment Radioactivity Monitor OR Turbine Building Vent Monitor Low Range Noble Gas Channel to OPERABLE status	72 hours

TECHNICAL REQUIREMENT SURVEILLANCE

SURVEILLANCE		FREQUENCY
TRS 3.7.7.1	Perform CHANNEL CHECK	24 hours
TRS 3.7.7.2	Perform SOURCE CHECK	31 days
TRS 3.7.7.3	Perform CHANNEL FUNCTIONAL TEST	92 days
TRS 3.7.7.4	Perform CHANNEL CALIBRATION	24 Months

3.12 Loads Control Program

3.12.2 Heavy Loads Requirements

TRO 3.12.2 The Technical Specification Limiting Conditions of Operation and Technical Requirements for Operation listed in Table 3.12.2-1 shall be met.

APPLICABILITY: During movement of heavy loads in the proximity of irradiated fuel.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. The Conditions of TRO 3.12.2 are not met.	A.1 Suspend movement of heavy loads in the proximity of irradiated fuel.	Immediately

TECHNICAL REQUIREMENT SURVEILLANCE

SURVEILLANCE		FREQUENCY
TRS 3.12.2.1	Administratively verify that all requirements of TRO are met.	Within 12 hours prior to commencing movement of heavy loads AND Every 12 hours thereafter

TABLE 3.12.2-1
TRO 3.12.2 REQUIREMENTS

a.	LCO 3.3.6.2[a]
b.	LCO 3.3.7.1[b]
c.	LCO 3.6.4.1[c]
d.	LCO 3.6.4.2[c]
e.	LCO 3.6.4.3[d]
f.	LCO 3.7.3[d]
g.	LCO 3.7.7[e]
h.	LCO 3.8.2
i.	LCO 3.8.5
j.	LCO 3.8.8
k.	LCO 3.9.6[g]
l.	TRO 3.3.4[f]
m.	TRO 3.7.1[i]
n.	TRO 3.9.1[g]
o.	TRO 3.11.2.6[h]

(a) Functions 3, 4, 5, 6, and 8.
(b) Functions 3, 4, 5, 6, 8, and 9.
(c) Zone III only.
(d) Minimum of one subsystem OPERABLE.
(e) Only required for movement of heavy load in the proximity of irradiated fuel in the spent fuel storage pool.
(f) Function 4 from Table 3.3.4-1.
(g) Only required for movement of heavy load in the proximity of irradiated fuel in the Reactor Pressure Vessel with the Steam Separator removed.
(h) Function 3 from Table 3.11.2.6-1.
(i) Two ESW pumps capable of supplying cooling to the required diesel generators.

B 3.7.7 Main Condenser Offgas Pretreatment Logarithmic Radiation Monitoring Instrumentation

BASES

TRO

Technical Specification 3.7.5, requires that the gross radioactivity release rate of noble gases from the main condenser is maintained within limits. This provides reasonable assurance that the total body exposure to an individual at the exclusion area boundary will not exceed a small fraction of the limits of 10 CFR 50.67 in the event this effluent is inadvertently discharged directly to the environment without treatment. This specification ensures that this release path is continuously monitored to ensure that the requirements LCO 3.7.5 and General Design Criteria 60 and 64 of Appendix A to 10 CFR Part 50 are implemented. (References 1 and 2)

ACTIONS

The Actions are defined to ensure proper corrective measures are taken in response to the inoperable components. The actions required for both the Main Condenser Pretreatment Logarithmic Radioactivity Monitor and the Turbine Building Vent Monitor Low Range Noble Gas Channel inoperable ensure that increases in the offgas radioactivity rate are detected. This is consistent with TS 3.7.5 which requires sampling when increases in the radioactivity rate are detected. Without continuous monitoring, increases in the radioactivity rates can only be detected by sampling. The sampling frequency is set to the Technical Specification 3.7.5 frequency to ensure that the intent of the Technical Specification is met. If both monitors are not restored within 72 hours, sampling every 4 hours will continue and TRO 3.0.3 should be entered to ensure that appropriate actions are being taken to restore the equipment.

TRS

The TRSs are defined to be performed at the specified Frequency to ensure that the monitoring instrumentation is maintained OPERABLE.

Performance of the CHANNEL CHECK ensures that a gross failure of the instrument has not occurred. A CHANNEL CHECK is normally a comparison of the parameter indicated on one channel against a similar parameter on other channels. It is based on the assumption that instrument channels monitoring the same parameter should read approximately the same value. Significant deviations between

(continued)

B 3.7.7 Main Condenser Offgas Pretreatment Logarithmic Radiation Monitoring Instrumentation

BASES

TRS (continued)

instrument channels could be an indication of excessive instrument drift in one of the channels or something even more serious. A CHANNEL CHECK will detect gross channel failure; thus, it is key to verifying the instrument continues to operate properly between each CHANNEL CALIBRATION.

Agreement criteria, which are developed by the plant staff based on an investigation of a combination of the channel instrument uncertainties, may be used to support this parameter comparison and include indication and readability. If a channel is outside the criteria, it may be an indication that the instrument has drifted outside its limit and does not necessarily indicate the channel is inoperable.

The CHANNEL FUNCTIONAL TEST (TRS 3.7.7.3) shall also demonstrate that that control room alarm annunciation occurs if any of the following conditions exists:

1. Instrument indicates measured levels above the alarm/trip setpoint.
2. Circuit Failure
3. Instrument indicates a downscale failure.
4. Instrument controls not set in operate mode.

The initial Channel Calibration (TRS 3.7.7.4) shall be performed using one or more of the reference standards certified by the National Institute of Standards and Test (NIST) or that have been obtained from suppliers that participate in measurement assurance activities with NIST. These standards shall permit calibrating the system over its intended range of energy and measurement range. For subsequent CHANNEL CALIBRATION, sources that have been related to the initial calibration shall be used.

REFERENCES

1. Technical Specification 3.7.5
2. 10 CFR Part 50.