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TRM1 - TECHNICAL REQUIREMENTS MANUAL UNIT 1

REMOVE MANUAL TABLE OF CONTENTS DATE: 04/19/2007

ADD MANUAL TABLE OF CONTENTS DATE: 05/02/2007

CATEGORY: DOCUMENTS TYPE: TRM1

A001

ID: TEXT 3.0
REMOVE: REV:2

ADD: REV: 3

CATEGORY: DOCUMENTS TYPE: TRM1
ID: TEXT 3.11.1.5
REMOVE: REV:1

ADD: REV: 2

CATEGORY: DOCUMENTS TYPE: TRM1
ID: TEXT 3.11.2.6
REMOVE: REV:2

ADD: REV: 3

CATEGORY: DOCUMENTS TYPE: TRM1
ID: TEXT 3.3.4
REMOVE: REV:2

ADD: REV: 3

CATEGORY: DOCUMENTS TYPE: TRM1
ID: TEXT B3.0
REMOVE: REV:2

ADD: REV: 3

CATEGORY: DOCUMENTS TYPE: TRM1
ID: TEXT LOES
REMOVE: REV:37

ADD: REV: 38

CATEGORY: DOCUMENTS TYPE: TRM1
ID: TEXT TOC
REMOVE: REV:10

ADD: REV: 11

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Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

Table Of Contents

Issue Date: 05/02/2007

Procedure Name	Rev	Issue Date	Change ID	Change Number
TEXT LOES	38	05/02/2007		
Title: LIST OF EFFECTIVE SECTIONS				
TEXT TOC	11	05/02/2007		
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	5	03/31/2006		
Title: PLANT PROGRAMS AND SETPOINTS INSTRUMENT TRIP SETPOINT TABLE				
TEXT 3.0	3	05/02/2007		
Title: TECHNICAL REQUIREMENT FOR OPERATION (TRO) APPLICABILITY & SURVEILLANCE (TRS) APPLICABILITY				
TEXT 3.1.1	0	11/18/2002		
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	3	03/31/2006		
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	7	04/26/2006		
Title: CORE OPERATING LIMITS REPORT (COLR)				

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 1 04/26/2006
Title: INSTRUMENTATION SEISMIC MONITORING INSTRUMENTATION

TEXT 3.3.3 1 04/26/2006
Title: INSTRUMENTATION METEOROLOGICAL MONITORING INSTRUMENTATION

TEXT 3.3.4 3 05/02/2007
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 0 11/18/2002
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 03/31/2006
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 3.4.1 1 04/26/2006
Title: REACTOR COOLANT SYSTEM REACTOR COOLANT SYSTEM CHEMISTRY

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT 3.4.2 0 11/18/2002
Title: REACTOR COOLANT SYSTEM STRUCTURAL INTEGRITY

TEXT 3.4.3 0 11/18/2002
Title: REACTOR COOLANT SYSTEM HIGH/LOW PRESSURE INTERFACE LEAKAGE MONITORS

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: EMERGENCY CORE COOLING AND RCIC ADS MANUAL INHIBIT

TEXT 3.5.2 0 11/18/2002
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

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

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT 3.7.2 0 11/18/2002
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 5 12/14/2006
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 11/18/2002
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

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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 0 11/18/2002
Title: PLANT SYSTEMS MAIN CONDENSER OFFGAS PRETREATMENT LOGARITHMIC RADIATION MONITORING

TEXT 3.7.8 3 10/12/2006
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 1 02/04/2005
Title: ELECTRICAL POWER PRIMARY CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

TEXT 3.8.2.1 1 12/14/2004
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

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

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT 3.8.6 0 11/18/2002
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 11/18/2002
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 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: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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 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 4 08/08/2006
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: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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

TEXT 3.12.2 1 10/12/2006
Title: LOADS CONTROL PROGRAM HEAVY LOADS REQUIREMENTS

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

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

TEXT B3.1.1 0 11/19/2002
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 0 11/19/2002
Title: INSTRUMENTATION BASES SEISMIC MONITORING INSTRUMENTATION

TEXT B3.3.3 1 02/04/2005
Title: INSTRUMENTATION BASES METEOROLOGICAL MONITORING INSTRUMENTATION

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT B3.3.4 2 06/13/2006
Title: INSTRUMENTATION BASES TRM POST ACCIDENT MONITORING (PAM) INSTRUMENTATION

TEXT B3.3.5 1 06/13/2006
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 0 11/19/2002
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 2 03/31/2006
Title: OPRM 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 0 11/19/2002
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: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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 0 11/19/2002
Title: ECCS AND RCIC BASES ECCS AND RCIC SYSTEM MONITORING INSTRUMENTATION

TEXT B3.5.3 0 11/19/2002
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 1 04/26/2006
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: 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 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 0 11/19/2002
Title: PLANT SYSTEMS BASES MAIN CONDENSER OFFGAS PRETREATMENT LOGARITHMIC RADIATION MONITORING INSTRUMENTATION

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT B3.7.8 2 10/12/2006
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: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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 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: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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 0 11/19/2002
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: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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 0 08/31/1998
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

SECTION	TITLE	PAGE
1.0	USE AND APPLICATION	TRM/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	3.1-1
3.1.1	Alternate Rod Injection	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	TRM/3.2-1
3.2.1	Core Operating Limits Report	TRM/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/3.3-22
3.3.10	Reactor Recirculation Pump MG Set Electrical and Mechanical Stops	TRM/3.3-23
3.3.11	MVP Isolation Instrumentation	TRM/3.3-25
3.4	REACTOR COOLANT SYSTEM	TRM/3.4-1
3.4.1	Reactor Coolant System Chemistry	TRM/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

SECTION	TITLE	PAGE
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
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	3.6-2
3.6.3	Suppression Pool Alarm Instrumentation	3.6-3
3.6.4	Primary Containment Closed System Boundaries	TRM/3.6-6
3.7	PLANT SYSTEMS	3.7-1
3.7.1	Emergency Service Water System (Shutdown)	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/3.7-35
3.7.5.1	Main Condenser Offgas Hydrogen Monitor	3.7-38
3.7.5.2	Main Condenser Explosive Gas Mixture	3.7-39
3.7.5.3	Liquid Holdup Tanks	TRM/3.7-40
3.7.6	ESSW Pumphouse Ventilation	TRM/3.7-41
3.7.7	Main Condenser Offgas Pretreatment Logarithmic Radiation Monitoring Instrumentation	3.7-42
3.7.8	Snubbers	TRM/3.7-44
3.7.9	Control Structure HVAC	TRM/3.7-50
3.7.10	Spent Fuel Storage Pools	TRM/3.7-52

SECTION	TITLE	PAGE
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
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
3.11.1.2	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
3.11.2.1	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	TRM/3.11-25
3.11.3	Total Dose	TRM/3.11-33
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

SECTION	TITLE	PAGE
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	Applicability	B 3.0-1
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	TRM/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	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 3.3-8
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 3.3-17
B 3.3.10	Reactor Recirculation Pump MG Set Electrical and Mechanical Stops	TRM/B 3.3-18
B 3.3.11	MVP Isolation Instrumentation	TRM/B 3.3-20
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	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	B 3.5-3
B 3.5.3	Long Term Nitrogen Supply to ADS	B 3.5-4

SECTION	TITLE	PAGE
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	TRM/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
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	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) Maintenance Activities	B 3.8-5
B 3.8.4	24VDC Electrical Power Subsystem	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

SECTION	TITLE	PAGE
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	TRM/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
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.3.12.1	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

TRM1 text TOC
04/12/2007

Section	Title	Effective Date
TOC	TABLE OF CONTENTS	04/12/2007
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
	Pages TRM / 2.0-6 and TRM / 2.0-7	03/22/2006
	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	03/22/2006
	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	
	Pages 3.1-1 through 3.1-5	08/31/1998
	Pages TRM / 3.1-6 through TRM / 3.1-8	03/22/2006
	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 / 3.2-44	03/31/2006
3.3	INSTRUMENTATION	
	Pages TRM / 3.3-1 through TRM / 3.3-3	07/16/1999
	Page TRM / 3.3-4	03/31/2006
	Pages TRM / 3.3-5 and TRM / 3.3-6	08/31/1998
	Page TRM / 3.3-7	03/31/2006
	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	05/30/2006
	Page TRM / 3.3-11	06/02/2005
	Page TRM / 3.3-11a	05/30/2006
	Page TRM / 3.3-12	03/30/2001
	Page TRM / 3.3-13	09/13/2005

Section	Title	Effective Date
	Page TRM / 3.3-14	12/14/1998
	Page TRM / 3.3-15	10/22/2003
	Page TRM / 3.3-16	06/27/2001
	Pages TRM / 3.3-17 and TRM / 3.3-18	06/14/2002
	Pages TRM / 3.3-19 through TRM / 3.3-21	10/22/2003
	Page TRM / 3.3-22	03/22/2006
	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
3.4	REACTOR COOLANT SYSTEM	
	Page TRM / 3.4-1	03/31/2006
	Pages 3.4-2 through 3.4-5	10/23/1009
	Pages 3.4-6 through 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	04/17/2000
	Pages 3.5-5 through 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
	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	12/29/1999
	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
	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

Section	Title	Effective Date
	Page TRM / 3.7-28	11/29/2006
	Page TRM / 3.7-29	08/09/2005
	Page TRM / 3.7-30	08/25/2005
	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
	Pages TRM / 3.7-41 and TRM / 3.7-41a	02/14/2005
	Pages 3.7-42 and 3.7-43	08/31/1998
	Pages TRM / 3.7-44 through TRM / 3.7-49	10/05/2006
	Pages TRM / 3.7-49a and TRM / 3.7-49b	10/05/2006
	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
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
	Pages TRM / 3.8-5 and TRM / 3.8-6	04/02/2002
	Pages TRM / 3.8-7 through TRM / 3.8-10	12/03/2004
	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
	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
	Pages TRM / 3.8-26 through TRM / 3.8-29	11/29/2006
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
	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	03/31/2006
	Page TRM / 3.10-8	08/16/2006

Section	Title	Effective Date
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 through TRM / 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	12/03/2004
	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 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 3.11-43	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	09/30/2006
	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	
	Pages TRM / B 3.1-1 through TRM / B 3.1-3	07/13/1999
	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 B 3.3-2	08/31/1998
	Pages TRM / B 3.3-3 and TRM / B 3.3-3A	01/31/2005
	Pages TRM / B 3.3-4 through TRM / B 3.3-7	05/30/2006
	Pages TRM / B 3.3-8 and TRM / B 3.3-9	03/30/2001
	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	06/14/2002
	Page TRM / B 3.3-14b	06/14/2002
	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 3.3-17f	03/22/2006
	Pages TRM / B 3.3-18 and TRM / B 3.3-19	05/16/2003
	Page TRM / B 3.3-20	10/22/2003
	Page TRM / B 3.3-21	05/16/2003
B 3.4	REACTOR COOLANT SYSTEM BASES	
	Pages B 3.4-1 through B 3.4-4	08/31/1998
	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 through B 3.5-5	08/31/1998

Section	Title	Effective Date
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	09/23/1999
	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	08/02/1999
	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
	Pages TRM / B 3.7-21 and TRM / B 3.7-21a	02/14/2005
	Pages TRM / B 3.7-22 and TRM / B 3.7-23	04/07/2000
	Pages TRM / B 3.7-24 through TRM / B 3.7-30	10/05/2006
	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
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	08/10/2004
	Page TRM / B 3.8-4a	04/02/2002

Section	Title	Effective Date
	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 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
	Pages TRM / B 3.10-6 and TRM / B 3.10-7	04/17/2002
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
B.3.12	LOADS CONTROL PROGRAM BASES	
	Pages TRM / B 3.12-1 through TRM / B 3.12-3	02/05/1999

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3.0 TECHNICAL REQUIREMENT FOR OPERATION (TRO) APPLICABILITY

TRO 3.0.1 TROs shall be met during the MODES or other specified conditions in the Applicability, except as provided in TRO 3.0.2.

TRO 3.0.2 Upon discovery of a failure to meet an TRO, the Required Actions of the associated Conditions shall be met, except as provided in TRO 3.0.5 and TRO 3.0.6.

If the TRO is met or is no longer applicable prior to expiration of the specified Completion Time(s), completion of the Required Action(s) is not required, unless otherwise stated.

TRO 3.0.3 When a TRO is not met, and the associated ACTIONS are not met, an associated ACTION is not provided, or if directed by the associated ACTIONS, the following actions shall be taken:

1. Take compensatory actions as warranted for exiting TRO 3.0.3 commensurate with the safety significance of the condition. Development and implementation of the compensatory actions and plan for exit of TRO 3.0.3 shall be pursued without delay and in a controlled manner and shall be documented in the TRO 3.0.3 entry Condition Report.
2. Initiate a TRO 3.0.3 entry Condition Report that is coded Level 3 Evaluation to determine possible changes to the TRO that would preclude future entry into TRO 3.0.3.

When corrective measures are completed that permit operation in accordance with the TRO or the TRO actions, completion of the compensatory actions and plan for exiting TRO 3.0.3 is not required.

TRO 3.0.4 When a TRO is not met, entry into a MODE or other specified condition in the Applicability shall not be made except when the associated ACTIONS to be entered permit continued operation in the MODE or other specified condition in the Applicability for an unlimited period of time. If such situations are discovered and a different action is deemed appropriate, issue a change to the appropriate TRM sections to describe committed actions to be taken.

(continued)

3.0 TECHNICAL REQUIREMENT FOR OPERATION (TRO) APPLICABILITY

TRO 3.0.4 (continued) Exceptions to this Requirement are stated in the individual Requirements. These exceptions allow entry into MODES or other specified conditions in the Applicability when the associated ACTIONS to be entered allow unit operation in the MODE or other specified condition in the Applicability only for a limited period of time. TRO 3.0.4 is only applicable for entry into a MODE or other specified condition in the Applicability in MODES 1, 2, and 3.

This Specification shall not prevent changes in MODES or other specified conditions in the Applicability that are required to comply with ACTIONS or that are part of a shutdown of the unit.

TRO 3.0.5 Equipment removed from service or declared inoperable to comply with ACTIONS may be returned to service under administrative control solely to perform testing required to demonstrate its OPERABILITY, the OPERABILITY of other equipment or variables to be within limits. This is an exception to TRO 3.0.2 for the system returned to service under administrative control to perform the testing required to demonstrate OPERABILITY.

TRO 3.0.6 When a supported system TRO is not met solely due to a support system TRO or LCO not being met, the Conditions and Required Actions associated with this supported system are not required to be entered. Only the support system TRO or LCO ACTIONS are required to be entered. This is an exception to TRO 3.0.2 for the supported system.

When a support system's Required Action directs a supported system to be declared inoperable or directs entry into Conditions and Required Actions for a supported system, the applicable Conditions and Required Actions shall be entered in accordance with TRO 3.0.2.

3.0 Technical Requirement Surveillance (TRS) Applicability

TRS 3.0.1 TRS shall be met during the MODES or other specified conditions in the Applicability for individual TROs, unless otherwise stated in the TRS. Failure to meet a Surveillance, whether such failure is experienced during the performance of the Surveillance or between performances of the Surveillance, shall be failure to meet the TRO. Failure to perform a Surveillance within the specified Frequency shall be failure to meet the TRO except as provided in TRS 3.0.3. Surveillances do not have to be performed on inoperable equipment or variables outside specified limits.

TRS 3.0.2 The specified Frequency for each TRS is met if the Surveillance is performed within 1.25 times the interval specified in the Frequency, as measured from the previous performance or as measured from the time a specified condition of the Frequency is met.

For Frequencies specified as "once," the above interval extension does not apply.

If a Completion Time requires periodic performance on a "once per . . ." basis, the above Frequency extension applies to each performance after the initial performance.

Exceptions to this Requirement are stated in the individual Requirements.

TRS 3.0.3 If it is discovered that a Surveillance was not performed within its specified Frequency, then compliance with the requirement to declare the TRO not met may be delayed, from the time of discovery, up to 24 hours or up to the limit of the specified Frequency, whichever is greater. In the event it is determined that a Surveillance cannot be performed within its specified Frequency, compliance with the requirement to declare the TRO not met may be delayed, from the expiration of the current Surveillance test interval, up to 24 hours or up to the limit of the specified Frequency, whichever is greater. This delay period is permitted to allow performance of the Surveillance. A risk evaluation shall be performed for any Surveillance delayed greater than 24 hours and the risk impact shall be managed.

(continued)

3.0 Technical Requirement Surveillance (TRS) Applicability

TRS 3.0.3 (continued)

If the Surveillance is not performed within the delay period, the TRO must immediately be declared not met, and the applicable Condition(s) must be entered.

When the Surveillance is performed within the delay period and the Surveillance is not met, the TRO must immediately be declared not met, and the applicable Condition(s) must be entered.

Exceptions to this Requirement are stated in the individual Requirements.

TRS 3.0.4

Entry into a MODE or other specified condition in the Applicability of a TRO shall not be made unless the TRO's Surveillances have been met within their specified Frequency. This provision shall not prevent entry into MODES or other specified conditions in the Applicability that are required to comply with Actions or that are part of a shutdown of the unit.

TRS 3.0.4 is only applicable for entry into a MODE or other specified condition in the Applicability in MODES 1, 2, and 3.

B 3.0 Technical Requirement for Operation (TRO) Applicability

BASES

TROs	TRO 3.0.1 through TRO 3.0.6 establish the general requirements applicable to all Requirements and apply at all times, unless otherwise stated.
TRO 3.0.1	TRO 3.0.1 establishes the Applicability statement within each individual Requirement as the requirement for when the TRO is required to be met (i.e., when the unit is in the MODES or other specified conditions of the Applicability statement of each Requirement).
TRO 3.0.2	TRO 3.0.2 establishes that upon discovery of a failure to meet a TRO, the associated ACTIONS shall be met. The Completion Time of each Required Action for an ACTIONS Condition is applicable from the point in time that an ACTIONS Condition is entered. The Required Actions establish those remedial measures that must be taken within specified Completion Times when the requirements of a TRO are not met. This Requirement establishes that: a. Completion of the Required Actions within the specified Completion Times constitutes compliance with a Requirement; and b. Completion of the Required Actions is not required when a TRO is met within the specified Completion Time, unless otherwise specified. There are two basic types of Required Actions. The first type of Required Action specifies a time limit in which the TRO must be met. This time limit is the Completion Time to restore an inoperable system or component to OPERABLE status or to restore variables to within specified limits. If this type of Required Action is not completed within the specified Completion Time, a shutdown may be required to place the unit in a MODE or condition in which the Specification is not applicable.

(continued)

B 3.0 Technical Requirement for Operation (TRO) Applicability

BASES

TRO 3.0.2 (continued)

Whether stated as a Required Action or not, correction of the entered Condition is an action that may always be considered upon entering ACTIONS. The second type of Required Action specifies the remedial measures that permit continued operation of the unit that is not further restricted by the Completion Time. In this case, compliance with the Required Actions provides an acceptable level of safety for continued operation.

Completing the Required Actions is not required when a TRO is met or is no longer applicable, unless otherwise stated in the individual Requirements.

The nature of some Required Actions of some Conditions necessitates that, once the Condition is entered, the Required Actions must be completed even though the associated Conditions no longer exist. The individual TRO's Actions specify the Required Actions where this is the case. An example of this is in Technical Requirement TRO 3.4.1, "Chemistry."

The Completion Times of the Required Actions are also applicable when a system or component is removed from service intentionally. The reasons for intentionally relying on the ACTIONS include, but are not limited to, modifications, performance of Surveillances, preventive maintenance, corrective maintenance, or investigation of operational problems. Entering ACTIONS for these or for any other reasons must be done in a manner that does not compromise safety.

(continued)

B 3.0 Technical Requirement for Operation (TRO) Applicability

BASES

TRO 3.0.2 (continued)

Individual Requirements may specify a time limit for performing a TRS when equipment is removed from service or bypassed for testing. In this case, the Completion Times of the Required Actions are applicable when this time limit expires, if the equipment remains removed from service or bypassed.

When a change in MODE or other specified condition is required to comply with Required Actions, the unit may enter a MODE or other specified condition in which another Requirement becomes applicable. In this case, the Completion Times of the associated Required Actions would apply from the point in time that the new Requirement becomes applicable and the ACTIONS Condition(s) are entered.

TRO 3.0.3

TRO 3.0.3 establishes the actions that must be implemented when a TRO is not met and:

a. An associated Required Action and Completion Time is not met and no other Condition applies; or

b. The condition of the unit is not specifically addressed by the associated ACTIONS. This means that no combination of Conditions stated in the ACTIONS can be made that exactly corresponds to the actual condition of the unit. Certain combinations of Conditions may exist such that entering TRO 3.0.3 is warranted; in such cases, the Actions specifically state a Condition corresponding to such combinations and also that TRO 3.0.3 be entered immediately.

(continued)

B 3.0 Technical Requirement for Operation (TRO) Applicability

BASES

TRO 3.0.3 (continued)

Because entry into the 3.0.3 ACTION is an escalation of the system, structure, component, or unit condition, a Condition Report is required. The Condition Report will address plant safety given the nonconformance with the Technical Requirement. TROs which affect OPERABILITY of TS Functions will have an assessment of TS OPERABILITY.

Compensatory actions and a plan for exiting TRO 3.0.3 shall be developed and implemented in a timely manner commensurate with the safety significance of the entry condition. This will allow for an orderly development of actions and plans providing for time to coordinate any actions deemed unwarranted with the station work schedule.

TRO 3.0.3 entries are undesirable and should be avoided whenever possible. Thus, it is important to evaluate the TRO 3.0.3 entry circumstances to determine if changes to the TRO not met can be made that would preclude the need for future TRO 3.0.3 entries. Completion of the evaluation is not required to exit TRO 3.0.3. The evaluation shall be performed even though TRO 3.0.3 has been/will be exited.

TRO 3.0.4

TRO 3.0.4 establishes limitations on changes in MODES or other specified conditions in the Applicability when a TRO is not met. It precludes placing the unit in a MODE or other specified condition stated in that Applicability (e.g., Applicability desired to be entered) when the following exist:

a. Unit conditions are such that the requirements of the TRO would not be met in the Applicability desired to be entered; and

b. Continued noncompliance with the TRO requirements, if the Applicability were entered, would result in the unit being required to exit the Applicability desired to be entered to comply with the Required Actions.

Compliance with Required Actions that permit continued operation of the unit for an unlimited period of time in a MODE or other specified condition provides an acceptance level of safety for continued operation. This is without regard to the status of the unit before or after the MODE change. Therefore, in such cases, entry into a MODE or other specified condition in the Applicability may be made in accordance with the provisions of the Required Actions. The provisions of this Requirement should not be interpreted as endorsing the failure to exercise the good practice of restoring systems or components to OPERABLE status before entering an associated MODE or other specified condition in the Applicability.

(continued)

B 3.0 Technical Requirement for Operation (TRO) Applicability

BASES

TRO 3.0.4 (continued)

The provisions of TRO 3.0.4 shall not prevent changes in MODES or other specified conditions in the Applicability that are required to comply with CTIONS. In addition, the provisions of TRO 3.0.4 shall not prevent changes in MODES or other specified conditions in the Applicability that result from any unit shutdown.

TRO 3.0.4 is not applicable to TROs that are identified as APPLICABLE "At all times." This term is considered to constitute one inclusive operating condition that corresponds to and encompasses all MODES as defined in the Technical Specification, as well as all special operating conditions, including when the reactor vessel is defueled. Entry into any MODE or other special condition is done within the context of "all times," and, therefore, is not a change within the Applicability to which TRO 3.0.4 applies.

Other exceptions to TRO 3.0.4 are stated in the individual Requirements. Exceptions may apply to all the ACTIONS or to a specific Required Action of a Requirement. TRO 3.0.4 is only applicable when entering MODE 3 from MODE 4, MODE 2 from MODE 3 or 4, or MODE 1 from MODE 2. Furthermore, TRO 3.0.4 is applicable when entering any other specified condition in the Applicability only while operating in MODE 1, 2, or 3. The requirements of TRO 3.0.4 do not apply in MODES 4 and 5, or in other specified conditions of the Applicability (unless in MODE 1, 2, or 3) because the ACTIONS of individual Requirements sufficiently define the remedial measures to be taken.

Surveillances do not have to be performed on the associated inoperable equipment (or on variables outside the specified limits), as permitted by TRS 3.0.1. Therefore, changing MODES or other specified conditions while in an ACTIONS Condition, either in compliance with TRO 3.0.4 or where an

(continued)

B 3.0 Technical Requirement for Operation (TRO) Applicability

BASES

TRO 3.0.4 (continued)

exception to TRO 3.0.4 is stated, is not a violation of TRS 3.0.1 or TRS 3.0.4 for those surveillances that do not have to be performed due to the associated inoperable equipment.
However, TRSs must be met to ensure OPERABILITY prior to declaring the associated equipment OPERABLE (or variable within limits) and restoring compliance with the affected TRO.

TRO 3.0.5

TRO 3.0.5 establishes the allowance for restoring equipment to service under administrative controls when it has been removed from service or declared inoperable to comply with ACTIONS. The sole purpose of this Requirement is to provide an exception to TRO 3.0.2 (e.g., to not comply with the applicable Required Action(s) to allow the performance of TRSs to demonstrate:

a. The OPERABILITY of the equipment being returned to service; or

b. The OPERABILITY of other equipment; or

c. That variables are within limits

The administrative controls ensure the time the equipment is returned to service in conflict with the requirements of the ACTIONS is limited to the time absolutely necessary to perform the allowed TRSs. This Requirement does not provide time to perform any other preventive or corrective maintenance.

An example of demonstrating the OPERABILITY of the equipment being returned to service is reopening a containment isolation valve that has been closed to comply with Required Actions and must be reopened to perform the TRSs.

(continued)

B 3.0 Technical Requirement for Operation (TRO) Applicability

BASES

TRO 3.0.5 (continued)

An example of demonstrating the OPERABILITY of other equipment is taking an inoperable channel or trip system out of the tripped condition to prevent the trip function from occurring during the performance of a TRS on another channel in the other trip system. A similar example of appropriate response during the performance of an TRS on another channel in the same trip system.

TRO 3.0.6

TRO 3.0.6 establishes an exception to TRO 3.0.2 for support systems that have a TRO or LCO specified in the Technical Requirement Specifications (TRS) or Technical Specification (TS). This exception is provided because TRO 3.0.2 would require that the Conditions and Required Actions of the associated inoperable supported system TRO be entered solely due to the inoperability of the support system. This exception is justified because the actions that are required to ensure the plant is maintained in a safe condition are specified in the support system TRO's or LCO's Required Actions. These Required Actions may include entering the supported system's Conditions and Required Actions or may specify other Required Actions.

When a support system is inoperable and there is a TRO or LCO specified for it in the TRS or TS, the supported system(s) are required to be declared inoperable if determined to be inoperable as a result of the support system inoperability. However, it is not necessary to enter into the supported systems' Conditions and Required Actions unless directed to do so by the support system's Required Actions. The potential confusion and inconsistency of requirements related to the entry into multiple support and supported systems' Conditions and Required Actions are eliminated by providing all the actions that are necessary to ensure the plant is maintained in a safe condition in the support system's Required Actions.

(continued)

B 3.0 Technical Requirement for Operation (TRO) Applicability

BASES

TRO 3.0.6 (continued)

However, there are instances where a support system's Required Action may either direct a supported system to be declared inoperable or direct entry into Conditions and Required Actions for the supported system. This may occur immediately or after some specified delay to perform some other Required Action. Regardless of whether it is immediate or after some delay, when a support system's Required Action directs a supported system to be declared inoperable or directs entry into Conditions and Required Actions for a supported system, the applicable Conditions and Required Actions shall be entered in accordance with TRO 3.0.2.

B 3.0 TECHNICAL REQUIREMENT SURVEILLANCE (TRS) APPLICABILITY

BASES

TRS

TRS 3.0.1 through TRS 3.0.4 establish the general requirements applicable to all Requirements and apply at all times, unless otherwise stated.

TRS 3.0.1

TRS 3.0.1 establishes the requirement that TRSs must be met during the MODES or other specified conditions in the Applicability for which the requirements of the TRO apply, unless otherwise specified in the individual TRSs. This Requirement is to ensure that Surveillances are performed to verify the OPERABILITY of systems and components, and that variables are within specified limits. Failure to meet a Surveillance within the specified Frequency, in accordance with TRS 3.0.2, constitutes a failure to meet a TRO.

Systems and components are assumed to be OPERABLE when the associated TRSs have been met. Nothing in this Requirement, however, is to be construed as implying that systems or components are OPERABLE when:

a. The systems or components are known to be inoperable, although still meeting the TRSs; or

b. The requirements of the Surveillance(s) are known to be not met between required Surveillance performances.

Surveillances do not have to be performed when the unit is in a MODE or other specified condition for which the requirements of the associated TRO are not applicable, unless otherwise specified.

Surveillances, including Surveillances invoked by Required Actions, do not have to be performed on inoperable equipment because the ACTIONS define the remedial measures that apply. Surveillances have to be met and performed in

(continued)

B 3.0 TECHNICAL REQUIREMENT SURVEILLANCE (TRS) APPLICABILITY

BASES

TRS 3.0.1 (continued)

accordance with TRS 3.0.2, prior to returning equipment to OPERABLE status. Upon completion of maintenance, appropriate post maintenance testing is required to declare equipment OPERABLE. This includes ensuring applicable Surveillances are not failed and their most recent performance is in accordance with TRS 3.0.2. Post maintenance testing may not be possible in the current MODE or other specified conditions in the Applicability due to the necessary unit parameters not having been established. In these situations, the equipment may be considered OPERABLE provided testing has been satisfactorily completed to the extent possible and the equipment is not otherwise believed to be incapable of performing its function. This will allow operation to proceed to a MODE or other specified condition where other necessary post maintenance tests can be completed.

TRS 3.0.2

TRS 3.0.2 establishes the requirements for meeting the specified Frequency for Surveillances and any Required Action with a Completion Time that requires the periodic performance of the Required Action on a "once per ..." interval.

TRS 3.0.2 permits a 25% extension of the interval specified in the Frequency. This extension facilitates Surveillance scheduling and considers plant operating conditions that may not be suitable for conducting the Surveillance (e.g., transient conditions or other ongoing Surveillance or maintenance activities).

The 25% extension does not significantly degrade the reliability that results from performing the Surveillance at its specified Frequency. This is based on the recognition that the most probable result of any particular Surveillance being performed is the verification of conformance with the TRSs. The exceptions to TRS 3.0.2 are

(continued)

B 3.0 TECHNICAL REQUIREMENT SURVEILLANCE (TRS) APPLICABILITY

BASES

TRO 3.0.2 (continued)

those Surveillances for which the 25% extension of the interval specified in the Frequency does not apply. These exceptions are stated in the individual Requirements. As stated in TRS 3.0.2, the 25% extension also does not apply to the initial portion of a periodic Completion Time that requires performance on a "once per ..." basis. The 25% extension applies to each performance after the initial performance. The initial performance of the Required Action, whether it is a particular Surveillance or some other remedial action, is considered a single action with a single Completion Time. One reason for not allowing the 25% extension to this Completion Time is that such an action usually verifies that no loss of function has occurred by checking the status of redundant or diverse components or accomplishes the function of the inoperable equipment in an alternative manner.

The provisions of TRS 3.0.2 are not intended to be used repeatedly merely as an operational convenience to extend Surveillance intervals (other than those consistent with refueling intervals) or periodic Completion Time intervals beyond those specified.

TRS 3.0.3

TRS 3.0.3 establishes the flexibility to defer declaring affected equipment inoperable or an affected variable outside the specified limits when a Surveillance has not been completed within the specified Frequency. A delay period of up to 24 hours or up to the limit of the specified Frequency, whichever is greater, applies from the point in time that it is discovered that the Surveillance has not been performed in accordance with TRS 3.0.2, and not at the time that the specified Frequency was not met.

If a Surveillance cannot be performed within its specified Frequency due to unusual conditions, such as a structure, system, or component configuration that prevents performance of a test, or performance of the test would have an adverse impact on plant risk, compliance with the requirement to declare the TRO not met may be delayed. This delay period starts at the expiration of the current Surveillance test interval. The delay can be up to 24 hours or up to the limit of the specified Frequency, whichever is greater.

This delay period provides adequate time to complete Surveillances that have been missed. This delay period permits the completion of a Surveillance before complying with Required Actions or other remedial measures that might preclude completion of the Surveillance.

(continued)

B 3.0 TECHNICAL REQUIREMENT SURVEILLANCE (TRS) APPLICABILITY

BASES

TRS 3.0.3 (continued)

The basis for this delay period includes consideration of unit conditions, adequate planning, availability of personnel, the time required to perform the Surveillance, the safety significance of the delay in completing the required Surveillance, and the recognition that the most probable result of any particular Surveillance being performed is the verification of conformance with the requirements.

When a Surveillance with a Frequency based not on time intervals, but upon specified unit conditions, operating situations, or requirements of regulations (e.g., prior to entering MODE 1 after each fuel loading, or in accordance with 10 CFR 50, Appendix J, as modified by approved exemptions, etc.) is discovered to not have been performed when specified, TRS 3.0.3 allows for the full delay period of up to the specified Frequency to perform the Surveillance. However, since there is not a time interval specified, the missed Surveillance should be performed at the first reasonable opportunity.

TRS 3.0.3 provides a time limit for, and allowances for the performance of, Surveillances that become applicable as a consequence of MODE changes imposed by Required Actions.

Failure to comply with specified Frequencies for TRSs is expected to be an infrequent occurrence. Use of the delay period established by TRS 3.0.3 is a flexibility which is not intended to be used as an operational convenience to extend Surveillance intervals. While up to 24 hours or the limit of the specified Frequency is provided to perform the missed Surveillance, it is expected that the missed Surveillance will be performed at the first reasonable opportunity. The determination of the first reasonable opportunity should include consideration of the impact on plant risk (from delaying the Surveillance as well as any plant configuration changes required or shutting the plant down to perform the Surveillance) and impact on any analysis assumptions, in addition to unit conditions, planning, availability of

(continued)

B 3.0 TECHNICAL REQUIREMENT SURVEILLANCE (TRS) APPLICABILITY

BASES

TRS 3.0.3 (continued)

personnel, and the time required to perform the Surveillance. This risk impact should be managed through the program in place to implement 10 CFR 50.65(a)(4) and its implementation guidance, NRC Regulatory Guide 1.182, "Assessing and Managing Risk Before Maintenance Activities at Nuclear Power Plants." This Regulatory Guide addresses consideration of temporary and aggregate risk impacts, determination of risk management action thresholds, and risk management action up to and including plant shutdown. The missed Surveillance should be treated as an emergent condition as discussed in the Regulatory Guide. The risk evaluation may use quantitative, qualitative, or blended methods. The degree of depth and rigor of the evaluation should be commensurate with the importance of the component. Missed Surveillances for important components should be analyzed quantitatively. If the results of the risk evaluation determine the risk increase is significant, this evaluation should be used to determine the safest course of action. All Surveillances who's Frequency has been extended in accordance with TRS 3.0.3 will be placed in the Corrective Action Program.

If a Surveillance is not completed within the allowed delay period, then the equipment is considered inoperable or the variable is considered outside the specified limits and the Completion Times of the Required Actions for the applicable TRO Conditions begin immediately upon expiration of the delay period. If a Surveillance is failed within the delay period, then the equipment is inoperable, or the variable is outside the specified limits and the Completion Times of the Required Actions for the applicable TRO Conditions begin immediately upon the failure of the Surveillance.

Completion of the Surveillance within the delay period allowed by this Requirement, or within the Completion Time of the ACTIONS, restores compliance with TRS 3.0.1.

Exceptions to TRS 3.0.3 are provided in instances where requiring equipment to be considered inoperable, in accordance with TRS 3.0.3, would not provide appropriate remedial measures for the associated condition. An example of this is in TRO 3.11.4.1, "Radiological Environmental Monitoring." TRO 3.11.4.1 has surveillances that implement required environmental sampling and analysis. If a portion of the sampling or analysis is not completed as required, the programmatic response is to report the condition to the Nuclear Regulatory Commission and in most instances describe the corrective actions taken to correct the condition. There are no result

(continued)

B 3.0 TECHNICAL REQUIREMENT SURVEILLANCE (TRS) APPLICABILITY

BASES

TRS 3.0.3 (continued)

thresholds built into the monitoring and analysis program that would result in declaring equipment inoperable or in a plant shutdown. Therefore, it is appropriate that the provisions of TRO 3.0.3 be waived for this TRO. These exceptions are addressed in the individual Requirements.

TRS 3.0.4

TRS 3.0.4 establishes the requirement that all applicable TRSs must be met before entry into a MODE or other specified condition in the Applicability. This Requirement ensures that system and component OPERABILITY requirements and variable limits are met before entry into MODES or other specified conditions in the Applicability for which these systems and components ensure safe operation of the unit.

The provisions of this Requirement should not be interpreted as endorsing the failure to exercise the good practice of restoring systems or components to OPERABLE status before entering an associated MODE or other specified condition in the Applicability.

However, in certain circumstances, failing to meet a TRS will not result in TRS 3.0.4 restricting a MODE change or other specified condition change. When a system, subsystem, division, component, device, or variable is inoperable or outside its specified limits, the associated TRS(s) are not required to be performed per TRS 3.0.1, which states that Surveillances do not have to be performed on inoperable equipment. When equipment is inoperable, TRS 3.0.4 does not apply to the associated TRS(s) since the requirement for the TRS(s) to be performed is removed. Therefore, failing to perform the Surveillance(s) within the specified Frequency does not result in an TRS 3.0.4 restriction to changing MODES or other specified conditions of the Applicability. However, since the TRO is not met in this instance, TRO 3.0.4 will govern any restrictions that may (or may not) apply to MODE or other specified condition changes. The provisions of TRS 3.0.4 shall not prevent changes in MODES or other specified conditions in the Applicability that are required to comply with ACTIONS. In addition, the provisions of TRO 3.0.4 shall not prevent changes in MODES or other specified conditions in the Applicability that result from any unit shutdown. The precise requirements for performance of TRSs are specified such that exceptions to TRS 3.0.4 are not necessary. The specific time frames and conditions necessary for meeting the TRSs are specified in the Frequency, in the Surveillance, or both.

(continued)

B 3.0 TECHNICAL REQUIREMENT SURVEILLANCE (TRS) APPLICABILITY

BASES

TRS 3.0.4 (continued)

This allows performance of Surveillances when the prerequisite condition(s) specified in a Surveillance procedure require entry into the MODE or other specified condition in the Applicability of the associated TRO prior to the performance or completion of a Surveillance. A Surveillance that could not be performed until after entering the TRO Applicability would have its Frequency specified such that it is not "due" until the specific conditions needed are met. Alternately, the Surveillance may be stated in the form of a Note as not required (to be met or performed) until a particular event, condition, or time has been reached. Further discussion of the specific formats of TRS's annotation is found in Section 1.4, Frequency.

TRS 3.0.4 is only applicable when entering MODE 3 from MODE 4, MODE 2 from MODE 3 or 4, or MODE 1 from MODE 2. Furthermore, TRS 3.0.4 is applicable when entering any other specified condition in the Applicability only while operating in MODE 1, 2, or 3. The requirements of TRS 3.0.4 do not apply in MODES 4 and 5, or in other specified conditions of the Applicability (unless in MODE 1, 2, or 3) because the ACTIONS of individual Requirements sufficiently define the remedial measures to be taken.

3.3 Instrumentation

3.3.4 TRM Post-Accident Monitoring Instrumentation

TRO 3.3.4 The TRM post-accident monitoring instrumentation channels shown in Table 3.3.4-1 shall be OPERABLE.

APPLICABILITY: According to Table 3.3.4-1

ACTIONS

----------NOTE----------

1. Separate condition entry is allowed for each Function.
2. The provisions of TRO 3.0.6 are not applicable.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more required channel inoperable.	A.1 Enter the Condition referenced in Table 3.3.4-1 for the channel	Immediately
B. As required by Required Action A.1 and referenced in Table 3.3.4-1.	B.1 Initiate the preplanned alternate method of monitoring the appropriate parameter(s) AND B.2 Restore the required channel to OPERABLE status.	72 hours 7 days
C. As required by Required Action A.1 and referenced in Table 3.3.4-1	C.1 Restore the required channel(s) to OPERABLE status.	30 days
D. As required by Required Action A.1 and referenced in Table 3.3.4-1	D.1 Verify affected SRV position by alternate methods.	Immediately AND Once per 24 hours thereafter

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
	AND	
	D.2 Verify a minimum 14 of the associated acoustic monitor channels and 5 of the ADS SRV acoustic monitor channels are operable.	Immediately
	AND	
	D.3.1 Verify SRV tailpipe temperature indication and alarm are available.	Immediately
	OR	
	D.3.2 Restore SRV tailpipe temperature indication and alarm to functional status.	7 days
	AND	
	D.4.1 Restore the required channel(s) to OPERABLE status.	30 days OR At next outage with containment entry, not to exceed the next refueling outage for in-accessible containment components.

TECHNICAL REQUIREMENT SURVEILLANCE

NOTE

1. Refer to Table 3.3.4-1 to determine which TRSs apply for each Post Accident Monitoring Function.

2. When a channel is placed in an inoperable status solely for performance of required Surveillances, entry into associated Conditions and Required Actions may be delayed for up to 6 hours.

SURVEILLANCE		FREQUENCY
TRS 3.3.4.1	Perform CHANNEL CHECK	31 days
TRS 3.3.4.2	Perform CHANNEL FUNCTIONAL TEST	92 days
TRS 3.3.4.3	Perform a CHANNEL CALIBRATION. The Trip Setpoint shall be less than or equal to 0.25 of the full open noise level.	24 months
TRS 3.3.4.4	Perform CHANNEL CALIBRATION	24 months
TRS 3.3.4.5	Perform CHANNEL CALIBRATION of the Primary Containment H_2 and O_2 Analyzers.	92 days

TABLE 3.3.4-1
TRM POST-ACCIDENT MONITORING INSTRUMENTATION

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS	CONDITIONS REFERENCED FROM REQUIRED ACTION A.1	REQUIRED SURVEILLANCE
1. Suppression Chamber Air Temperature	1,2	2	C	TRS 3.3.4.1 TRS 3.3.4.4
2. Main Steam Safety/Relief Valve Position Indicator (Acoustic Monitor)[c]	1,2	1/valve	D	TRS 3.3.4.1 TRS 3.3.4.2 TRS 3.3.4.3
3. Reactor Building Vent Noble Gas Monitor				
a. Mid Range[b]	1,2, (a)	1	B	TRS 3.3.4.1 TRS 3.3.4.4
b. High Range[b]	1,2, (a)	1	B	TRS 3.3.4.1 TRS 3.3.4.4
4. Standby Gas Treatment System Vent Noble Gas Monitor				
a. Mid Range[b]	1,2, (a)	2	B (Both Ch. Inop) C (One Ch. Inop)	TRS 3.3.4.1 TRS 3.3.4.4
b. High Range[b]	1,2, (a)	2	B (Both Ch. Inop) C (One Ch. Inop)	TRS 3.3.4.1 TRS 3.3.4.4
5. Turbine Building Vent Noble Gas Monitor				
a. Mid Range[b]	1,2	2	B (Both Ch. Inop) C (One Ch. Inop)	TRS 3.3.4.1 TRS 3.3.4.4
b. High Range[b]	1,2	2	B (Both Ch. Inop) C (One Ch. Inop)	TRS 3.3.4.1 TRS 3.3.4.4

(continued)

TABLE 3.3.4-1 (continued)
TRM POST-ACCIDENT MONITORING INSTRUMENTATION

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS	CONDITIONS REFERENCED FROM REQUIRED ACTION A.1	REQUIRED SURVEILLANCE
6. Standby Gas Treatment System Post Accident Vent Stack Sampling System (PAVSSS)				
a. Effluent System flow rate monitor[b]	1,2, (a)	1	C	TRS 3.3.4.1 TRS 3.3.4.4
b. Sampler flow rate monitor[b]	1,2, (a)	1	C	TRS 3.3.4.1 TRS 3.3.4.4
7. Turbine Building Post Accident Vent Stack Sampling System (PAVSSS)				
a. Effluent System flow rate monitor[b]	1,2	1	C	TRS 3.3.4.1 TRS 3.3.4.4
b. Sampler flow rate monitor[b]	1,2	1	C	TRS 3.3.4.1 TRS 3.3.4.4
8. Containment H_2 and O_2 Analyzer	1,2	2	C	TRS 3.3.4.1 TRS 3.3.4.5

(a) When moving irradiated fuel in the secondary containment.
(b) The provisions of TRO 3.0.4 are not applicable.
(c) Alternate monitoring methods listed in Bases.

3.11 Radioactive Effluents

3.11.1 Liquid Effluents

3.11.1.5 Radioactive Liquid Process Monitoring Instrumentation

TRO 3.11.1.5 The Radioactive Liquid Process Monitoring Instrumentation channels shown in Table 3.11.1.5-1 shall be OPERABLE with their setpoints established in accordance with the ODCM to ensure the alarm will occur prior to exceeding the limits of TRO 3.11.1.1.

APPLICABILITY: As specified in Table 3.11.1.5-1.

ACTIONS

NOTE

1. Separate condition entry is allowed for each channel.
2. The provisions of TRO 3.0.4 are not applicable.
3. The provisions of TRO 3.0.6 are not applicable.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more Radioactive Liquid Process Monitoring Instrumentation alarm/trip channels setpoint less conservative than the limits allowed by TRO 3.11.1.1.	A.1 Suspend the release of liquid effluents monitored by the affected channel	Immediately
	OR	
	A.2 Declare the channel inoperable	Immediately

(continued)

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
B. Radioactive Liquid Process Monitoring Instrumentation otherwise inoperable.	B.1.1 Suspend the release of liquid effluents monitored by the affected channel.	Immediately
	OR	
	B.1.2 Analyze grab samples for isotopic activity to the required LLDs for liquid effluents (Table 3.11.1.1-1).	Once per 8 hours when the associated pathway is in service
	AND	
	B.2 Restore monitoring instrumentation	30 days
C. Required Action and Associated Completion Time of Conditions B not met.	C.1 Explain why the inoperability was not corrected in a timely manner	In the next Radioactive Effluent Release Report per TS Section 5.6
D. RHR Heat Exchanger to be drained to the spray pond.	D.1 Analyze grab samples from the RHR Heat Exchanger for isotopic activity to the required LLDs for liquid effluents (Table 3.11.1.1-1).	Prior to draining RHR Heat Exchanger to the spray pond.

TECHNICAL REQUIREMENT SURVEILLANCE

NOTE

Refer to Table 3.11.1.5-1 to determine which TRSs apply for each Monitoring Function.

SURVEILLANCE	FREQUENCY
TRS 3.11.1.5.1 Perform CHANNEL CHECK.	24 hours
TRS 3.11.1.5.2 Perform a Source Check	31 days
TRS 3.11.1.5.3 Perform CHANNEL FUNCTIONAL TEST	92 days
TRS 3.11.1.5.4 Perform CHANNEL CALIBRATION	24 months

TABLE 3.11.1.5-1
RADIOACTIVE LIQUID PROCESS MONITORING INSTRUMENTATION

FUNCTION	REQUIRED CHANNELS	APPLICABILITY	SURVEILLANCE REQUIREMENTS
GROSS RADIOACTIVITY MONITORS NOT PROVIDING AUTOMATIC TERMINATION OF RELEASE			
1. Service Water System Effluent Line	1	(a)	TRS 3.11.1.5.1 TRS 3.11.1.5.2 TRS 3.11.1.5.3 TRS 3.11.1.5.4
2. Supplemental Decay Heat Removal Service Water	1	(a)	TRS 3.11.1.5.1 TRS 3.11.1.5.2 TRS 3.11.1.5.3 TRS 3.11.1.5.4
3. RHR Service Water System Effluent Line.	1/Loop	(b)	TRS 3.11.1.5.1 TRS 3.11.1.5.2 TRS 3.11.1.5.3 TRS 3.11.1.5.4

(a) System aligned through Fuel Pool Cooling Heat Exchanger. Alignment change between Service Water System Effluent Line and Supplemental Decay Heat Removal Service Water is not considered to be a change in the applicable condition.

(b) At all times

3.11 Radioactive Effluents

3.11.2 Gaseous Effluents

3.11.2.6 Radioactive Gaseous Effluent Monitoring Instrumentation

TRO 3.11.2.6 The radioactive gaseous effluent monitoring instrumentation channels shown in Table 3.11.2.6-1 shall be OPERABLE with their setpoints established in accordance with the ODCM to ensure that the limits of Requirement 3.11.2.1 are not exceeded.

APPLICABILITY: According to Table 3.11.2.6-1.

ACTIONS

NOTE

1. Separate condition entry is allowed for each channel.
2. The provisions of TRO 3.0.6 are not applicable.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Radioactive gaseous effluent monitoring instrumentation channel alarm/trip setpoint less conservative than required to ensure that the limits of Requirement 3.11.2.1 are not exceeded	A.1 Suspend the release of radioactive gaseous effluents monitored by the affected channel	Immediately
	OR	
	A.2 Declare the channel inoperable	Immediately

(continued)

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
B. Reactor Building Ventilation System Noble Gas Activity Monitor low range channel inoperable	B.1 Take grab samples AND B.2 Analyze grab samples for isotopic activity to the required LLDs for principal noble gas gamma emitters (Table 3.11.2.1-1) AND B.3 Restore monitoring instrumentation	Once per 8 hours while release is in progress. Within 24 hours of grab sample 30 days
C. Deleted		
D. Reactor Building Ventilation Monitoring System Effluent System Flow Rate Monitor or Sampler Flow Rate Monitor inoperable	D.1 Estimate flow rate AND D.2 Restore monitoring instrumentation	Once per 4 hours while release is in progress 30 days

(continued)

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
E. Turbine Building Ventilation System Noble Gas Activity Monitor low range channel inoperable	E.1 Verify mechanical vacuum pump is not in operation	Immediately
	AND	
	E.2 Take grab samples	Once per 8 hours while release is in progress
	AND	
	E.3 Analyze grab samples for isotopic activity to the required LLDs for the principal noble gas gamma emitters (Table 3.11.2.1-1)	Within 24 hours after sample
	AND	
	E.4 Restore monitoring instrumentation	30 days
F. Deleted		
G. Turbine Building Ventilation Monitoring System Effluent System Flow Rate Monitor or Sampler Flow Rate Monitor inoperable	G.1 Estimate flow rate	Once per 4 hours while release is in progress.
	AND	
	G.2 Restore monitoring instrumentation	30 days

(continued)

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
H. Standby Gas Treatment System Noble Gas Activity Monitor low range channel inoperable	H.1 Take grab samples AND H.2 Analyze grab samples for isotopic activity to the required LLDs for principal noble gas gamma emitters (Table 3.11.2.1-1) AND H.3 Restore monitoring instrumentation	Once per 4 hours while release is in progress Within 24 hours of grab sample being taken 30 days
I. Deleted		
J. SGTS Ventilation Monitoring System Effluent flow rate monitor or sample flow rate monitor inoperable	J.1 Estimate flow rate AND J.2 Restore monitoring instrumentation	Once per 4 hours while release is in progress. 30 days

(continued)

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
K. Required Actions and Completion Times not met for Conditions B through J	K.1 Explain why this inoperability was not corrected in a timely manner	In the next Radioactive Effluent Release Report per TS Section 5.6

TECHNICAL REQUIREMENT SURVEILLANCE

NOTE

Refer to Table 3.11.2.6-1 to determine which TRSs apply for each Monitoring Function.

SURVEILLANCE		FREQUENCY
TRS 3.11.2.6.1	Perform CHANNEL CHECK	24 hours
TRS 3.11.2.6.2	Deleted	
TRS 3.11.2.6.3	Perform Source Check	31 days
TRS 3.11.2.6.4	Perform CHANNEL FUNCTIONAL TEST	92 days
TRS 3.11.2.6.5	Perform CHANNEL CALIBRATION	24 months

TABLE 3.11.2.6-1 (Page 1 of 3)
RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION

FUNCTION	APPLICABILITY	REQUIRED CHANNELS	SURVEILLANCE REQUIREMENTS
1. REACTOR BUILDING VENTILATION MONITORING SYSTEM			
a. Noble Gas Activity Monitor (Low Range)	At all Times	1	TRS 3.11.2.6.1 TRS 3.11.2.6.3 TRS 3.11.2.6.4 TRS 3.11.2.6.5
b. Deleted			
c. Deleted			
d. Effluent System Flow Rate Monitor	At all Times	1	TRS 3.11.2.6.1 TRS 3.11.2.6.4 TRS 3.11.2.6.5
e. Sampler Flow Rate Monitor	At all Times	1	TRS 3.11.2.6.1 TRS 3.11.2.6.4 TRS 3.11.2.6.5

(continued)

TABLE 3.11.2.6-1 (Page 2 of 3)
RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION

FUNCTION	APPLICABILITY	REQUIRED CHANNELS	SURVEILLANCE REQUIREMENTS
2. TURBINE BUILDING VENTILATION MONITORING SYSTEM			
a. Noble Gas Activity Monitor (Low Range)	At all Times	1	TRS 3.11.2.6.1 TRS 3.11.2.6.3 TRS 3.11.2.6.4 TRS 3.11.2.6.5
b. Deleted			
c. Deleted			
d. Effluent System Flow Rate Monitor	At all Times	1	TRS 3.11.2.6.1 TRS 3.11.2.6.4 TRS 3.11.2.6.5
e. Sampler Flow Rate Monitor	At all Times	1	TRS 3.11.2.6.1 TRS 3.11.2.6.4 TRS 3.11.2.6.5

(continued)

TABLE 3.11.2.6-1 (Page 3 of 3)
RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION

FUNCTION	APPLICABILITY	REQUIRED CHANNELS	SURVEILLANCE REQUIREMENTS
3. STANDBY GAS TREATMENT SYSTEM (STGS) MONITOR			
a. Noble Gas Activity Monitor (Low Range)	During operation of SGTS	1	TRS 3.11.2.6.1 TRS 3.11.2.6.3 TRS 3.11.2.6.4 TRS 3.11.2.6.5
b. Deleted			
c. Deleted			
d. Effluent System Flow Rate Monitor	During operation of SGTS	1	TRS 3.11.2.6.1 TRS 3.11.2.6.4 TRS 3.11.2.6.5
e. Sampler Flow Rate Monitor	During operation of SGTS	1	TRS 3.11.2.6.1 TRS 3.11.2.6.4 TRS 3.11.2.6.5