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TRM1 - TECHNICAL REQUIREMENTS MANUAL UNIT 1

REMOVE MANUAL TABLE OF CONTENTS DATE: 02/12/2020

ADD MANUAL TABLE OF CONTENTS DATE: 02/13/2020

CATEGORY: DOCUMENTS TYPE: TRM1

ADD!
NRR

ID: TEXT 3.7.3.1

ADD: REV: 5

REMOVE: REV:4

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SSSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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Title: REACTOR COOLANT SYSTEM REACTOR COOLANT SYSTEM CHEMISTRY

TEXT 3.4.2 1 04/16/2009

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TEXT 3.4.3 1 11/09/2007

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TEXT B3.4.3 1 11/09/2007

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TEXT B3.5.3 2 03/05/2019

Title: ECCS RPV WATER INVENTORY CONTROL AND RCIC SYSTEM LONG TERM NITROGEN SUPPLY TO ADS

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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

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Title: CONTAINMENT BASES SUPPRESSION POOL ALARM INSTRUMENTATION

TEXT B3.6.4 1 12/14/2004

Title: CONTAINMENT BASES, PRIMARY CONTAINMENT CLOSED SYSTEM BOUNDARIES

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Title: PLANT SYSTEMS BASES EMERGENCY SERVICE WATER SYSTEM (SHUTDOWN)

TEXT B3.7.2 0 11/19/2002

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Title: PLANT SYSTEMS BASES FIRE HOSE STATIONS

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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 4 06/04/2013

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
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Title: PLANT SYSTEMS BASES CONTROL STRUCTURE HVAC

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Title: PLANT SYSTEMS BASES SPENT FUEL STORAGE POOLS

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Title: STRUCTURAL INTEGRITY

TEXT B3.8.1 2 03/10/2010

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

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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

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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 1 11/14/2013

Title: ELECTRICAL POWER BASES DEGRADED VOLTAGE PROTECTION

TEXT B3.8.6 3 03/05/2019

Title: ELECTRICAL POWER BASES EMERGENCY SWITCHGEAR ROOM COOLING

TEXT B3.8.7 2 06/04/2013

Title: BATTERY MAINTENANCE AND MONITORING PROGRAM

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TEXT B3.9.2 0 11/19/2002

Title: REFUELING OPERATIONS BASES COMMUNICATIONS

TEXT B3.9.3 1 03/12/2019

Title: REFUELING OPERATIONS BASES REFUELING PLATFORM

TEXT B3.10.1 0 11/19/2002

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TEXT B3.10.2 1 03/31/2006

Title: MISCELLANEOUS BASES SHUTDOWN MARGIN TEST RPS INSTRUMENTATION

TEXT B3.10.3 2 10/17/2019

Title: MISCELLANEOUS BASES INDEPENDENT SPENT FUEL STORAGE INSTALLATION (ISFSI)

TEXT B3.10.4 1 04/17/2008

Title: INTENTIONALLY LEFT BLANK

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

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Title: RADIOACTIVE EFFLUENTS BASES DOSE RATE

TEXT B3.11.2.2 0 11/19/2002

Title: RADIOACTIVE EFFLUENTS BASES DOSE - NOBLE GASES

TEXT B3.11.2.3 0 11/19/2002

Title: RADIOACTIVE EFFLUENTS BASES DOSE - IODINE, TRITIUM, AND RADIONUCLIDES IN PARTICULATES FORM

TEXT B3.11.2.4 0 11/19/2002

Title: RADIOACTIVE EFFLUENTS BASES GASEOUS RADWASTE TREATMENT SYSTEM

TEXT B3.11.2.5 5 07/03/2013

Title: RADIOACTIVE EFFLUENTS BASES VENTILATION EXHAUST TREATMENT SYSTEM

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Title: RADIOACTIVE EFFLUENTS BASES RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION

TEXT B3.11.3 0 11/19/2002

Title: RADIOACTIVE EFFLUENTS BASES TOTAL DOSE

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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

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Title: LOADS CONTROL PROGRAM BASES HEAVY LOADS REQUIREMENTS

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TEXT B3.12.3

0 11/19/2002

Title: LOADS CONTROL PROGRAM BASES LIGHT LOADS REQUIREMENTS

3.7.3 Fire Protection

3.7.3.1 Fire Suppression Water Supply System

TRO 3.7.3.1 Two Fire Suppression Water Supply Subsystems shall be OPERABLE

APPLICABILITY: At all times

ACTIONS

----- NOTE -----
The provisions of TRO 3.0.4 are not applicable.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One fire suppression water supply subsystem inoperable	A.1 Restore the inoperable fire suppression water supply subsystem to OPERABLE status	7 days
	<u>OR</u> A.2 Establish an alternate fire suppression water supply subsystem.	7 days
B. Both fire suppression water supply subsystems inoperable	B.1 Establish an alternate fire suppression water supply subsystem	24 hours
	<u>AND</u> B.2 Restore an inoperable fire suppression water supply subsystem to OPERABLE status	7 days

TECHNICAL REQUIREMENT SURVEILLANCE

-----NOTE-----

When a system is placed in an inoperable status solely for the performance of required Surveillances, entry into associated Conditions and required Actions may be delayed up to 1 hour.

SURVEILLANCE		FREQUENCY
TRS 3.7.3.1.1	Verify the minimum contained fire suppression water supply volume.	7 days
TRS 3.7.3.1.2	Verify that the overall diesel driven (0P511) and/or backup diesel driven (0P592) fire pump diesel engine starting battery bank and charger battery voltage is greater than or equal to 12 volts.	31 days
TRS 3.7.3.1.3	Verify that the diesel driven fire pump (0P511) and/or backup diesel driven (0P592) diesel engine starting battery bank pilot cell specific gravity, corrected to 77°F, is greater than or equal to 1.200.	31 days
TRS 3.7.3.1.4	Verify that the diesel driven (0P511) and/or backup diesel driven (0P592) fire pump diesel engine starting battery bank electrolyte level of each pilot cell is above the plates.	31 days
TRS 3.7.3.1.5	Start the electric motor driven fire pump (0P512) and operate it for at least 15 minutes on recirculation flow.	31 days
TRS 3.7.3.1.6	Verify that each manual, power operated or automatic valve, in the fire suppression water supply system flow path is in its correct position. For those valves required for alignment of an alternate fire water supply source to support this TRO, this TRS need only be performed when those valves are aligned for fire water supply.	92 days

TECHNICAL REQUIREMENT SURVEILLANCE (continued)

SURVEILLANCE		FREQUENCY
TRS 3.7.3.1.7	Verify the diesel driven (0P511) and/or backup diesel driven (0P592) fire pump fuel storage tank contains at least 250 gallons of fuel.	31 days
TRS 3.7.3.1.8	Start the diesel driven (0P511) and/or backup diesel driven (0P592) fire pump from ambient conditions and operate for greater than or equal to 30 minutes on recirculation flow.	31 days
TRS 3.7.3.1.9	Verify that a sample of the diesel driven (0P511) and/or backup diesel driven (0P592) fire pump diesel fuel from the fuel storage tank is within the acceptable limits when checked for viscosity, water and sediment.	92 days
TRS 3.7.3.1.10	This TRS is not used	
TRS 3.7.3.1.11	Cycle each fire suppression water supply system testable valve in the flow path through at least one complete cycle of full travel.	12 months
TRS 3.7.3.1.12	Perform a system flush of the fire suppression water supply system, including the onsite and backup fire water supply systems and fire department connections.	12 months
TRS 3.7.3.1.13	Perform a system functional test of the fire suppression water supply system, including the onsite and backup fire water supply systems.	18 months
TRS 3.7.3.1.14	This TRS is not used.	

TECHNICAL REQUIREMENT SURVEILLANCE (continued)

SURVEILLANCE		FREQUENCY
TRS 3.7.3.1.15	Verify that each fire pump (0P511 and 0P512) develops at least 2500 gpm at a system head of 140 psig. Verify that the backup diesel driven fire pump (0P592) develops at least 2500 gpm at a system head of 140 psig.	18 months
TRS 3.7.3.1.16	Verify that the diesel driven (0P511) and/or backup diesel driven (0P592) fire pump diesel engine battery bank cells and battery racks show no visual indication of physical damage or abnormal deterioration.	18 months
TRS 3.7.3.1.17	Verify that each fire pump starts to maintain the fire suppression water supply system pressure greater than or equal to: 100 psig.	18 months
TRS 3.7.3.1.18	Verify that the diesel driven (0P511) and/or backup diesel driven (0P592) fire pump diesel engine starting battery bank Terminal connections are clean, tight, free of corrosion and coated with anti-corrosion material.	18 months
TRS 3.7.3.1.19	Perform diesel driven (0P511) and/or backup diesel driven (0P592) fire pump diesel engine inspection.	18 months
TRS 3.7.3.1.20	Perform a fire suppression water supply system flow test, including the onsite and backup fire water supply system.	3 years