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TRM1 - TECHNICAL REQUIREMENTS MANUAL UNIT 1

REMOVE MANUAL TABLE OF CONTENTS DATE: 05/28/2008

ADD MANUAL TABLE OF CONTENTS DATE: 06/27/2008

CATEGORY: DOCUMENTS TYPE: TRM1

A001
NRR

ID: TEXT 3.7.6
REMOVE: REV:1

ADD: REV: 2

CATEGORY: DOCUMENTS TYPE: TRM1
ID: TEXT B3.7.6
REMOVE: REV:1

ADD: REV: 2

CATEGORY: DOCUMENTS TYPE: TRM1
ID: TEXT LOES
ADD: REV: 47

REMOVE: REV:46

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SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

Table Of Contents

Issue Date: 05/28/2008

<u>Procedure Name</u>	<u>Rev</u>	<u>Issue Date</u>	<u>Change ID</u>	<u>Change Number</u>
TEXT LOES	46	05/23/2008		
Title: LIST OF EFFECTIVE SECTIONS				
TEXT TOC	15	04/17/2008		
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	7	05/23/2008		
Title: PLANT PROGRAMS AND SETPOINTS INSTRUMENT TRIP SETPOINT TABLE				
			LDCN	3920
			LDCN	4502
			LDCN	4414
TEXT 3.0	4	05/23/2008		
Title: TECHNICAL REQUIREMENT FOR OPERATION (TRO) APPLICABILITY & SURVEILLANCE (TRS) APPLICABILITY				
TEXT 3.1.1	1	11/09/2007		
Title: REACTIVITY CONTROL SYSTEMS ANTICIPATED TRANSIENT WITHOUT SCRAM ALTERNATE ROD INJECTION (ATWS-ARI) INSTRUMENTATION				
TEXT 3.1.2	0	11/18/2002		
Title: REACTIVITY CONTROL SYSTEMS CONTROL ROD DRIVE (CRD) HOUSING SUPPORT				
TEXT 3.1.3	4	04/17/2008		
Title: REACTIVITY CONTROL SYSTEMS CONTROL ROD BLOCK INSTRUMENTATION				
			LDCN	3920
			LDCN	4502
TEXT 3.1.4	0	11/18/2002		
Title: REACTIVITY CONTROL SYSTEMS CONTROL ROD SCRAM ACCUMULATORS INSTRUMENTATION & CHECK VALVE				

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT 3.2.1 9 04/17/2008

Title: CORE OPERATING LIMITS REPORT (COLR)

TEXT 3.3.1 0 11/18/2002

Title: INSTRUMENTATION RADIATION MONITORING INSTRUMENTATION

TEXT 3.3.2 2 11/09/2007

Title: INSTRUMENTATION SEISMIC MONITORING INSTRUMENTATION

TEXT 3.3.3 2 11/09/2007

Title: INSTRUMENTATION METEOROLOGICAL MONITORING INSTRUMENTATION

TEXT 3.3.4 5 05/23/2008

Title: INSTRUMENTATION TRM POST-ACCIDENT MONITORING INSTRUMENTATION

TEXT 3.3.5 0 11/18/2002

Title: INSTRUMENTATION THIS PAGE INTENTIONALLY LEFT BLANK

TEXT 3.3.6 2 10/19/2005

Title: INSTRUMENTATION TRM ISOLATION ACTUATION INSTRUMENTATION

TEXT 3.3.7 1 11/09/2007

Title: INSTRUMENTATION MAIN TURBINE OVERSPEED PROTECTION SYSTEM

TEXT 3.3.8 1 10/22/2003

Title: INSTRUMENTATION TRM RPS INSTRUMENTATION

TEXT 3.3.9 3 04/17/2008

Title: OPRM INSTRUMENTATION CONFIGURATION

LDCN

4502

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

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT 3.4.1 1 04/26/2006
Title: REACTOR COOLANT SYSTEM REACTOR COOLANT SYSTEM CHEMISTRY

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

TEXT 3.4.3 1 11/09/2007
Title: REACTOR COOLANT SYSTEM HIGH/LOW PRESSURE INTERFACE LEAKAGE MONITORS

TEXT 3.4.4 2 04/17/2008
Title: REACTOR COOLANT SYSTEM REACTOR RECIRCULATION FLOW AND ROD LINE LIMIT

TEXT 3.4.5 1 04/26/2006
Title: REACTOR COOLANT SYSTEM REACTOR VESSEL MATERIALS

TEXT 3.5.1 1 02/04/2005
Title: EMERGENCY CORE COOLING AND RCIC ADS MANUAL INHIBIT

TEXT 3.5.2 1 11/09/2007
Title: EMERGENCY CORE COOLING AND RCIC ECCS AND RCIC SYSTEM MONITORING INSTRUMENTATION

TEXT 3.5.3 0 11/18/2002
Title: EMERGENCY CORE COOLING AND RCIC LONG TERM NITROGEN SUPPLY TO ADS

TEXT 3.6.1 0 11/18/2002
Title: CONTAINMENT VENTING OR PURGING

TEXT 3.6.2 0 11/18/2002
Title: CONTAINMENT SUPPRESSION CHAMBER-TO-DRYWELL VACUUM BREAKER POSITION INDICATION

TEXT 3.6.3 0 11/18/2002
Title: CONTAINMENT SUPPRESSION POOL ALARM INSTRUMENTATION

TEXT 3.6.4 0 11/18/2002
Title: CONTAINMENT PRIMARY CONTAINMENT CLOSED SYSTEM BOUNDARIES

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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

TEXT 3.7.2 0 11/18/2002
Title: PLANT SYSTEMS ULTIMATE HEAT SINK (UHS) AND GROUND WATER LEVEL

TEXT 3.7.3.1 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 6 11/09/2007
Title: PLANT SYSTEMS FIRE DETECTION INSTRUMENTATION

LDCN 3503

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

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

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT 3.8.5	0	11/18/2002	Title: ELECTRICAL POWER DEGRADED VOLTAGE PROTECTION
TEXT 3.8.6	0	11/18/2002	Title: ELECTRICAL POWER EMERGENCY SWITCHGEAR ROOM COOLING
TEXT 3.8.7	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	2	04/17/2008	Title: MISCELLANEOUS LEADING EDGE FLOW METER (LEFM)
TEXT 3.11.1.1	1	04/26/2006	Title: RADIOACTIVE EFFLUENTS LIQUID EFFLUENTS CONCENTRATION
TEXT 3.11.1.2	1	04/26/2006	Title: RADIOACTIVE EFFLUENTS LIQUID EFFLUENTS DOSE

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT 3.11.1.3 1 04/26/2006
Title: RADIOACTIVE EFFLUENTS LIQUID WASTE TREATMENT SYSTEM

TEXT 3.11.1.4 1 12/14/2004
Title: RADIOACTIVE EFFLUENTS LIQUID RADWASTE EFFLUENT MONITORING INSTRUMENTATION

TEXT 3.11.1.5 2 05/02/2007
Title: RADIOACTIVE EFFLUENTS RADIOACTIVE LIQUID PROCESS MONITORING INSTRUMENTATION

TEXT 3.11.2.1 3 04/26/2006
Title: RADIOACTIVE EFFLUENTS DOSE RATE

TEXT 3.11.2.2 1 04/26/2006
Title: RADIOACTIVE EFFLUENTS DOSE - NOBLE GASES

TEXT 3.11.2.3 1 04/26/2006
Title: RADIOACTIVE EFFLUENTS DOSE - IODINE, TRITIUM, AND RADIONUCLIDES IN PARTICULATE FORM

TEXT 3.11.2.4 0 11/18/2002
Title: RADIOACTIVE EFFLUENTS GASEOUS RADWASTE TREATMENT SYSTEM

TEXT 3.11.2.5 3 11/14/2006
Title: RADIOACTIVE EFFLUENTS VENTILATION EXHAUST TREATMENT SYSTEM

TEXT 3.11.2.6 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

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT 3.11.4.3	1	04/26/2006	Title: RADIOACTIVE EFFLUENTS INTERLABORATORY COMPARISON PROGRAM
TEXT 3.12.1	0	11/19/2002	Title: LOADS CONTROL PROGRAM CRANE TRAVEL-SPENT FUEL POOL STORAGE POOL
TEXT 3.12.2	4	04/17/2008	Title: LOADS CONTROL PROGRAM HEAVY LOADS REQUIREMENTS
TEXT 3.12.3	0	11/19/2002	Title: LOADS CONTROL PROGRAM LIGHT LOADS REQUIREMENT
TEXT B3.0	4	05/23/2008	Title: APPLICABILITY BASES TECHNICAL REQUIREMENT FOR OPERATION (TRO) APPLICABILITY
TEXT B3.1.1	1	11/09/2007	Title: REACTIVITY CONTROL SYSTEMS BASES ANTICIPATED TRANSIENT WITHOUT SCRAM ALTERNATE ROD INJECTION (ATWS-ARI) INSTRUMENTATION
TEXT B3.1.2	0	11/19/2002	Title: REACTIVITY CONTROL SYSTEMS BASES CONTROL ROD DRIVE (CRD) HOUSING SUPPORT
TEXT B3.1.3	3	03/31/2006	Title: REACTIVITY CONTROL SYSTEMS BASES CONTROL ROD BLOCK INSTRUMENTATION
TEXT B3.1.4	0	11/19/2002	Title: REACTIVITY CONTROL SYSTEMS BASES CONTROL ROD SCRAM ACCUMULATORS INSTRUMENTATION AND CHECK VALVE
TEXT B3.2.1	0	11/19/2002	Title: CORE OPERATING LIMITS BASES CORE OPERATING LIMITS REPORT (COLR)
TEXT B3.3.1	0	11/19/2002	Title: INSTRUMENTATION BASES RADIATION MONITORING INSTRUMENTATION
TEXT B3.3.2	1	11/09/2007	Title: INSTRUMENTATION BASES SEISMIC MONITORING INSTRUMENTATION

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT B3.3.3	2	11/09/2007	Title: INSTRUMENTATION BASES METEOROLOGICAL MONITORING INSTRUMENTATION
TEXT B3.3.4	3	11/09/2007	Title: INSTRUMENTATION BASES TRM POST ACCIDENT MONITORING (PAM) INSTRUMENTATION
TEXT B3.3.5	2	11/09/2007	Title: INSTRUMENTATION BASES THIS PAGE INTENTIONALLY LEFT BLANK
TEXT B3.3.6	3	10/19/2005	Title: INSTRUMENTATION BASES TRM ISOLATION ACTUATION INSTRUMENTATION
TEXT B3.3.7	1	11/09/2007	Title: INSTRUMENTATION BASES MAIN TURBINE OVERSPEED PROTECTION SYSTEM
TEXT B3.3.8	1	10/22/2003	Title: INSTRUMENTATION BASES TRM REACTOR PROTECTION SYSTEM (RPS) INSTRUMENTATION
TEXT B3.3.9	3	04/17/2008	Title: OPRM INSTRUMENTATION
TEXT B3.3.10	0	11/19/2002	Title: INSTRUMENTATION BASES REACTOR RECIRCULATION PUMP MG SET STOPS
TEXT B3.3.11	1	10/22/2003	Title: INSTRUMENTATION BASES MVP ISOLATION INSTRUMENTATION
TEXT B3.4.1	0	11/19/2002	Title: REACTOR COOLANT SYSTEM BASES REACTOR COOLANT SYSTEM CHEMISTRY
TEXT B3.4.2	0	11/19/2002	Title: REACTOR COOLANT SYSTEM BASES STRUCTURAL INTEGRITY
TEXT B3.4.3	1	11/09/2007	Title: REACTOR COOLANT SYSTEM BASES HIGH/LOW PRESSURE INTERFACE LEAKAGE MONITOR

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT B3.4.4	0	11/19/2002		
Title: REACTOR COOLANT SYSTEM BASES REACTOR RECIRCULATION FLOW AND ROD LINE LIMIT				
TEXT B3.4.5	0	11/19/2002		
Title: REACTOR COOLANT SYSTEM BASES REACTOR VESSEL MATERIALS				
TEXT B3.5.1	0	11/19/2002		
Title: ECCS AND RCIC BASES ADS MANUAL INHIBIT				
TEXT B3.5.2	1	11/09/2007		
Title: ECCS AND RCIC BASES ECCS AND RCIC SYSTEM MONITORING INSTRUMENTATION				
TEXT B3.5.3	1	11/09/2007		
Title: ECCS AND RCIC BASES LONG TERM NITROGEN SUPPLY TO ADS				
TEXT B3.6.1	0	11/19/2002		
Title: CONTAINMENT BASES VENTING OR PURGING				
TEXT B3.6.2	0	11/19/2002		
Title: CONTAINMENT BASES SUPPRESSION CHAMBER-TO-DRYWELL VACUUM BREAKER POSITION INDICATION				
TEXT B3.6.3	2	04/17/2008		
Title: CONTAINMENT BASES SUPPRESSION POOL ALARM INSTRUMENTATION				
			LDCN	3933
TEXT B3.6.4	1	12/14/2004		
Title: CONTAINMENT BASES PRIMARY CONTAINMENT CLOSED SYSTEM BOUNDARIES				
TEXT B3.7.1	0	11/19/2002		
Title: PLANT SYSTEMS BASES EMERGENCY SERVICE WATER SYSTEM (SHUTDOWN)				
TEXT B3.7.2	0	11/19/2002		
Title: PLANT SYSTEMS BASES ULTIMATE HEAT SINK (UHS) GROUND WATER LEVEL				
TEXT B3.7.3.1	2	01/07/2008		
Title: PLANT SYSTEMS BASES FIRE SUPPRESSION WATER SUPPLY SYSTEM				

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT B3.7.3.2 2 04/26/2006

Title: PLANT SYSTEMS BASES SPRAY AND SPRINKLER SYSTEMS

TEXT B3.7.3.3 0 11/19/2002

Title: PLANT SYSTEMS BASES CO2 SYSTEMS

TEXT B3.7.3.4 1 04/26/2006

Title: PLANT SYSTEMS BASES HALON SYSTEMS

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

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT B3.7.7 2 01/31/2008
Title: PLANT SYSTEMS BASES MAIN CONDENSER OFFGAS PRETREATMENT LOGARITHMIC RADIATION MONITORING INSTRUMENTATION

TEXT B3.7.8 3 06/21/2007
Title: PLANT SYSTEMS BASES SNUBBERS

TEXT B3.7.9 1 12/14/2004
Title: PLANT SYSTEMS BASES CONTROL STRUCTURE HVAC

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

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT B3.9.1 0 11/19/2002

Title: REFUELING OPERATIONS BASES DECAY TIME

TEXT B3.9.2 0 11/19/2002

Title: REFUELING OPERATIONS BASES COMMUNICATIONS

TEXT B3.9.3 0 11/19/2002

Title: REFUELING OPERATIONS BASES REFUELING PLATFORM

TEXT B3.10.1 0 11/19/2002

Title: MISCELLANEOUS BASES SEALED SOURCE CONTAMINATION

TEXT B3.10.2 1 03/31/2006

Title: MISCELLANEOUS BASES SHUTDOWN MARGIN TEST RPS INSTRUMENTATION

TEXT B3.10.3 0 11/19/2002

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

TEXT B3.10.4 1 04/17/2008

Title: MISCELLANEOUS BASES LEADING EDGE FLOW METER (LEFM)

TEXT B3.11.1.1 0 11/19/2002

Title: RADIOACTIVE EFFLUENTS BASES LIQUID EFFLUENTS CONCENTRATION

TEXT B3.11.1.2 0 11/19/2002

Title: RADIOACTIVE EFFLUENTS BASES LIQUID EFFLUENTS DOSE

TEXT B3.11.1.3 0 11/19/2002

Title: RADIOACTIVE EFFLUENTS BASES LIQUID WASTE TREATMENT SYSTEM

TEXT B3.11.1.4 0 11/19/2002

Title: RADIOACTIVE EFFLUENTS BASES LIQUID RADWASTE EFFLUENT MONITORING INSTRUMENTATION

TEXT B3.11.1.5 0 11/19/2002

Title: RADIOACTIVE EFFLUENTS BASES RADIOACTIVE LIQUID PROCESS MONITORING
INSTRUMENTATION

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT B3.11.2.1	1	12/14/2004	Title: RADIOACTIVE EFFLUENTS BASES DOSE RATE
TEXT B3.11.2.2	0	11/19/2002	Title: RADIOACTIVE EFFLUENTS BASES DOSE - NOBLE GASES
TEXT B3.11.2.3	0	11/19/2002	Title: RADIOACTIVE EFFLUENTS BASES DOSE - IODINE, TRITIUM, AND RADIONUCLIDES IN PARTICULATES FORM
TEXT B3.11.2.4	0	11/19/2002	Title: RADIOACTIVE EFFLUENTS BASES GASEOUS RADWASTE TREATMENT SYSTEM
TEXT B3.11.2.5	4	11/14/2006	Title: RADIOACTIVE EFFLUENTS BASES VENTILATION EXHAUST TREATMENT SYSTEM
TEXT B3.11.2.6	1	01/27/2004	Title: RADIOACTIVE EFFLUENTS BASES RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION
TEXT B3.11.3	0	11/19/2002	Title: RADIOACTIVE EFFLUENTS BASES TOTAL DOSE
TEXT B3.11.4.1	2	01/06/2006	Title: RADIOACTIVE EFFLUENTS BASES MONITORING PROGRAM
TEXT B3.11.4.2	0	11/19/2002	Title: RADIOACTIVE EFFLUENTS BASES LAND USE CENSUS
TEXT B3.11.4.3	0	11/19/2002	Title: RADIOACTIVE EFFLUENTS BASES INTERLABORATORY COMPARISON PROGRAM
TEXT B3.12.1	1	10/04/2007	Title: LOADS CONTROL PROGRAM BASES CRANE TRAVEL-SPENT FUEL STORAGE POOL
TEXT B3.12.2	0	11/19/2002	Title: LOADS CONTROL PROGRAM BASES HEAVY LOADS REQUIREMENTS

SSES MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

TEXT B3.12.3	0	11/19/2002
Title: LOADS CONTROL PROGRAM BASES LIGHT LOADS REQUIREMENTS		
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		

LIST OF EFFECTIVE SECTIONS (TECHNICAL REQUIREMENTS MANUAL)

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
TOC	TABLE OF CONTENTS	03/27/2008
1.0	USE AND APPLICATION Pages TRM / 1.0-1 through TRM / 1.0-3	10/04/2002
2.0	PLANT PROGRAMS	
	Page 2.0-1	08/31/1998
	Pages TRM / 2.0-2 and TRM / 2.0-3	01/28/2005
	Page TRM / 2.0-4	06/25/2002
	Page TRM / 2.0-5	04/02/1999
	Page TRM / 2.0-6	03/27/2008
	Page TRM / 2.0-7	05/15/2008
	Page TRM / 2.0-8	03/27/2008
	Pages TRM / 2.0-9 through TRM / 2.0-11	11/15/2004
	Page TRM / 2.0-12	03/27/2008
	Pages TRM / 2.0-13 and TRM / 2.0-14	11/15/2004
	Page TRM / 2.0-15	11/15/2005
3.0	APPLICABILITY	
	Page TRM / 3.0-1	04/14/2008
	Page TRM / 3.0-2	04/12/2007
	Page TRM / 3.0-3	03/15/2002
	Page TRM / 3.0-4	11/30/2005
3.1	REACTIVITY CONTROL SYSTEMS	
	Page TRM / 3.1-1	10/31/2007
	Pages TRM / 3.1-2 through TRM / 3.1-5	08/31/1998
	Page TRM / 3.1-6	03/22/2006
	Pages TRM / 3.1-7 and TRM / 3.1-8	03/27/2008
	Pages TRM / 3.1-9 and TRM / 3.1-9a	02/18/1999
	Page TRM / 3.1-10	02/18/1999
3.2	CORE OPERATING LIMITS REPORT	
	Page TRM / 3.2-1	07/07/1999
	Pages TRM / 3.2-2 through TRM / 3.2-44	03/17/2008
3.3	INSTRUMENTATION	
	Pages TRM / 3.3-1 through TRM / 3.3-3	07/16/1999
	Page TRM / 3.3-4 and TRM / 3.3-5	10/31/2007
	Page TRM / 3.3-6	08/31/1998
	Page TRM / 3.3-7	10/31/2007
	Page 3.3-8	08/31/1998
	Page TRM / 3.3-9	04/12/2007
	Page TRM / 3.3-9a	12/17/1998
	Page TRM / 3.3-10	10/31/2007
	Page TRM / 3.3-11	06/02/2005
	Page TRM / 3.3-11a	04/14/2008
	Page TRM / 3.3-12	03/30/2001
	Page TRM / 3.3-13	09/13/2005

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

PPL Rev. 47

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
	Page TRM / 3.3-14	12/14/1998
	Page TRM / 3.3-15	10/22/2003
	Page TRM / 3.3-16	06/27/2001
	Page TRM / 3.3-17	06/14/2002
	Page TRM / 3.3-18	10/31/2007
	Pages TRM / 3.3-19 through TRM / 3.3-21	10/22/2003
	Page TRM / 3.3-22	03/27/2008
	Page TRM / 3.3-22a	11/15/2004
	Pages TRM / 3.3-22b through TRM / 3.3-22d	03/22/2006
	Page TRM / 3.3-23	12/03/2004
	Pages TRM / 3.3-24 and TRM / 3.3-25	05/16/2003
	Page TRM / 3.3-26	10/22/2003
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 3.4-9	08/31/1998
	Page TRM / 3.4-10	10/31/2007
	Page TRM / 3.4-11	08/31/1998
	Page TRM / 3.4-12	03/27/2008
	Page TRM / 3.4-13	03/31/2006
3.5	EMERGENCY CORE COOLING AND RCIC	
	Page TRM / 3.5-1	01/28/2005
	Pages 3.5-2 and 3.5-3	08/31/1998
	Pages TRM / 3.5-4 and TRM / 3.5-5	10/31/2007
	Pages 3.5-6 and 3.5-7	08/31/1998
3.6	CONTAINMENT	
	Pages 3.6-1 through 3.6-3	08/31/1998
	Page TRM / 3.6-4	01/07/2002
	Page 3.6-5	08/31/1998
	Pages TRM / 3.6-6 through TRM / 3.6-8	12/31/2002
3.7	PLANT SYSTEMS	
	Pages 3.7-1 through 3.7-3	08/31/1998
	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

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
	Page TRM / 3.7-18	08/02/1999
	Page TRM / 3.7-19	03/31/2006
	Pages TRM / 3.7-20 through TRM / 3.7-22	08/02/1999
	Pages TRM / 3.7-23 and TRM / 3.7-24	03/31/2006
	Pages TRM / 3.7-25 and TRM 3.7-26	08/02/1999
	Page TRM 3.7-27	10/31/2007
	Page TRM / 3.7-28	11/29/2006
	Page TRM / 3.7-29	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
	Page TRM / 3.7-41	02/14/2005
	Page TRM / 3.7-41a	06/20/2008
	Page TRM / 3.7-42	01/30/2008
	Page 3.7-43	08/31/1998
	Pages TRM / 3.7-44 through TRM / 3.7-46	10/05/2006
	Page TRM / 3.7-47	06/07/2007
	Page TRM / 3.7-48	10/05/2006
	Page TRM / 3.7-49	06/07/2007
	Page TRM / 3.7-50	03/09/2001
	Page TRM / 3.7-51	08/16/2006
	Page TRM / 3.7-52	12/03/2004
	Page TRM / 3.7-53	04/15/2003
	Page TRM / 3.7-54	07/29/1999
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
	Page TRM / 3.8-7	10/31/2007
	Pages TRM / 3.8-8 through TRM / 3.8-10	12/03/2004
	Page TRM / 3.8-11	09/03/2004
	Page TRM / 3.8-12	12/03/2004
	Pages 3.8-13 and 3.8-14	08/31/1998
	Pages TRM / 3.8-15 through TRM / 3.8-17	04/02/2002
	Page 3.8-18	08/31/1998
	Page TRM / 3.8-19	04/02/2002
	Page 3.8-20	08/31/1998
	Pages TRM / 3.8-21 through TRM / 3.8-23	06/06/1999
	Pages 3.8-24 and 3.8-25	08/31/1998
	Pages TRM / 3.8-26 through TRM / 3.8-29	11/29/2006

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

PPL Rev. 47

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
3.9	REFUELING OPERATIONS Pages 3.9-1 through 3.9-3	08/31/1998
3.10	MISCELLANEOUS Page TRM / 3.10-1 Pages 3.10-2 and 3.10-3 Pages 3.10-2 and 3.10-3 Page TRM / 3.10-4 Pages TRM / 3.10-5 and TRM / 3.10-6 Page TRM / 3.10-7	03/31/2006 08/31/1998 08/31/1998 08/01/2006 03/22/2006 03/31/2006
3.11	RADIOACTIVE EFFLUENTS Page TRM / 3.11-1 Pages 3.11-2 and 3.11-3 Page TRM / 3.11-4 Page 3.11-5 Page TRM / 3.11-6 Pages TRM / 3.11-7 through TRM / 3.11-9 Page TRM / 3.11-10 Pages 3.11-11 and 3.11-12 Page TRM / 3.11-13 Page TRM / 3.11-14 Pages 3.11-15 and 3.11-16 Page TRM / 3.11-17 Page 3.11-18 Page TRM / 3.11-19 Pages TRM / 3.11-20 and TRM / 3.11-21 Page TRM / 3.11-22 Page TRM / 3.11-23 Page TRM / 3.11-24 Page TRM / 3.11-25 Pages TRM / 3.11-26 through TRM / 3.11-28 Page TRM / 3.11-29 Pages TRM / 3.11.30 through TRM / 3.11.32 Page TRM / 3.11-33 Page 3.11-34 Page TRM / 3.11-35 Pages TRM / 3.11-36 through TRM / 3.11-39 Pages 3.11-40 through 3.11-43 Page TRM / 3.11-44 Page TRM / 3.11-45 Page 3.11-46 Page TRM / 3.11-47	03/31/2006 08/31/1998 03/31/2006 08/31/1998 03/31/2006 08/31/1998 12/03/2004 08/31/1998 04/12/2007 12/03/2004 09/01/1998 03/31/2006 08/31/1998 08/15/2005 03/31/2006 04/02/2002 11/14/2006 05/13/2005 04/12/2007 01/21/2004 12/03/2004 01/21/2004 03/31/2006 08/31/1998 03/31/2006 11/30/2005 08/31/1998 08/01/2006 03/31/2006 08/31/1998 03/31/2006

LIST OF EFFECTIVE SECTIONS (TECHNICAL REQUIREMENTS MANUAL)

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
3.12	LOADS CONTROL PROGRAM	
	Pages TRM / 3.12-1 through TRM / 3.12-3	02/05/1999
	Page TRM / 3.12-4	03/14/2008
	Page TRM / 3.12-5	02/05/1999
4.0	ADMINISTRATIVE CONTROLS	
	Pages 4.0-1 through 4.0-8	08/31/1998

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

PPL Rev. 47

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
B 3.0	APPLICABILITY BASES	
	Pages TRM / B 3.0-1 through TRM / B 3.0-3	08/31/1998
	Page TRM / B 3.0-4	01/10/2007
	Page TRM / B 3.0-5	04/14/2008
	Page TRM / B 3.0-6	08/31/1998
	Page TRM / B 3.0-7	04/12/2007
	Pages TRM / B 3.0-8 through TRM / B 3.0-10	08/31/1998
	Pages TRM / B 3.0-11 and TRM / B 3.0-12	03/15/2002
	Pages TRM / B 3.0-13 and TRM / B 3.0-14	11/30/2005
	Page TRM / B 3.0-15	03/15/2002
B 3.1	REACTIVITY CONTROL SYSTEMS BASES	
	Page TRM / B 3.1-1	07/13/1999
	Pages TRM / B 3.1-2 and TRM / B 3.1-3	10/31/2007
	Page B 3.1-4	08/31/1998
	Page TRM / B 3.1-5	11/15/2005
	Pages TRM / B 3.1-6 and TRM / B 3.1-7	03/22/2006
	Page TRM / B 3.1-8	02/18/1999
B 3.2	CORE OPERATING LIMITS BASES	
	Page B 3.2-1	08/31/1998
B 3.3	INSTRUMENTATION BASES	
	Page TRM / B 3.3-1	04/07/2000
	Pages TRM / B 3.3-2 and TRM / B 3.3-2a	10/31/2007
	Pages TRM / B 3.3-3 and TRM / B 3.3-3A	10/31/2007
	Pages TRM / B 3.3-4 and TRM / B 3.3-5	05/30/2006
	Pages TRM / B 3.3-6 through TRM / B 3.3-9	10/31/2007
	Page B 3.3-10	08/31/1998
	Pages TRM / B 3.3-11 and TRM / B 3.3-12	09/13/2005
	Page TRM / B 3.3-13	12/03/2004
	Page TRM / B 3.3-14	06/25/2002
	Page TRM / B 3.3-14a	10/31/2007
	Page TRM / B 3.3-14b	10/31/2007
	Pages TRM / B 3.3-15 and TRM / B 3.3-16	10/22/2003
	Page TRM / B 3.3-17	03/22/2006
	Pages TRM / B 3.3-17a through TRM / B 3.3-17c	03/22/2006
	Page TRM / B 3.3-17d	03/27/2008
	Pages TRM / B 3.3-17e and TRM / B 3.3-17f	03/22/2006
	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 3.4-3	08/31/1998
	Pages TRM / B 3.4-4 and TRM / B 3.4-4a	10/31/2007
	Page TRM / B 3.4-5	10/15/1999
	Page B 3.4-6	08/31/1998

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

PPL Rev. 47

<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
B 3.5	ECCS AND RCIC BASES Pages B 3.5-1 and B 3.5-2 Pages TRM / B 3.5-3 through TRM / B 3.5-5	08/31/1998 10/31/2007
B 3.6	CONTAINMENT BASES Page TRM / B 3.6-1 Page TRM / B 3.6-2 Page B 3.6-3 Page TRM / B 3.6-4 Page TRM / B 3.6-5 Page TRM / B 3.6-6 Pages B.3.6-7 through TRM / B 3.6-11	07/26/2001 02/01/1999 08/31/1998 03/27/2008 04/04/2007 12/03/2004 12/31/2002
B 3.7	PLANT SYSTEMS BASES Pages B 3.7-1 and B 3.7-2 Pages TRM / B 3.7-3 and TRM / B 3.7-3a Page TRM / B 3.7-4 Page TRM / B 3.7-5 Page TRM / B 3.7-6 Pages TRM / B 3.7-7 and TRM / B 3.7-7a Page TRM / B 3.7-8 Page TRM / B 3.7-9 Page TRM / B 3.7-10 Page TRM / B 3.7-10a Page TRM / B 3.7-11 Page TRM / B 3.7-11a Pages TRM / B 3.7-12 through TRM / B 3.7-14 Page TRM / B 3.7-14a Page TRM / B 3.7-14b Pages TRM / B 3.7-15 and TRM / B 3.7-16 Pages B 3.7-17 through B 3.7-20 Page TRM / B 3.7-21 Page TRM / B 3.7-21a Page TRM / B 3.7-22 and TRM / B 3.7-23 Pages TRM / B 3.7-24 through TRM / B 3.7-28 Pages TRM / B 3.7-29 and TRM / B 3.7-30 Pages TRM / B 3.7-30a and TRM / B 3.7-30b Page TRM / B 3.7-31 Page TRM / B 3.7-32 Page TRM / B 3.7-33 Page TRM / B 3.7-34 Page TRM / B 3.7-35	08/31/1998 12/27/2007 03/31/2006 08/02/1999 03/31/2006 08/02/1999 08/02/1999 03/31/2006 08/02/1999 03/31/2006 08/02/1999 03/31/2006 08/02/1999 03/31/2006 08/02/1999 01/09/2004 02/01/1999 08/31/1998 02/14/2005 06/20/2008 01/30/2008 10/05/2006 06/07/2007 10/05/2006 12/03/2004 03/09/2001 04/15/2003 12/03/2004 07/05/2000

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

PPL Rev. 47

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

TRM1 text LOES
6/23/08

PPL Rev. 2

3.7 Plant Systems

3.7.6 ESSW Pumphouse Ventilation

TRO 3.7.6 Two ESSW Pumphouse Ventilation Subsystems shall be OPERABLE.

APPLICABILITY: Whenever associated RHRSW and ESW Pumps are required to be OPERABLE.

ACTIONS

NOTES

1. If one or more fans and one or more dampers render ESSW Pumphouse Ventilation Subsystem fan train(s) inoperable, enter both the appropriate Condition for inoperable fan(s) and Condition E.
2. Dampers gagged in the appropriate position may be un-gagged intermittently under administrative controls to allow for work and/or operability testing.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One ESSW Pumphouse Ventilation Subsystem fan train in one or both subsystems inoperable due to an inoperable fan.	A.1 Restore subsystem fan to OPERABLE status.	30 days
B. Two ESSW Pumphouse Ventilation Subsystem fan trains in one or both subsystems inoperable due to inoperable fans.	B.1 Restore inoperable equipment so at least three fans in the subsystem are in OPERABLE status.	7 days
C. Three or more ESSW Pumphouse Ventilation Subsystem fan trains in one subsystem inoperable due to inoperable fans.	C.1 Restore inoperable equipment so at least two fans in the subsystem are in OPERABLE status.	36 hours

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
D. Three or more fan trains in both subsystems inoperable due to inoperable fans.	D.1 Declare the associated ESW/RHRSW pumps inoperable.	Immediately
E. -----NOTE----- Separate Condition entry is allowed for each damper. ----- One or more ESSW Pumphouse Ventilation Subsystem fan trains in one or both subsystems inoperable due to one or more inoperable dampers.	E.1 Gag the affected fans' dampers in the appropriate position.	72 hours
F. Required Action and associated Completion Time of Conditions A, B, C, or E not met.	F.1 Declare the associated ESW/RHRSW pumps inoperable.	Immediately

TECHNICAL REQUIREMENT SURVEILLANCE

SURVEILLANCE	FREQUENCY
TRS 3.7.6.1 Verify that the ESSW Pumphouse Ventilation Subsystems fans start and associated dampers automatically position when their associated pump starts.	92 days

B 3.7.6 ESSW Pumphouse Ventilation

BASES

TRO

The ESSW Pumphouse Ventilation System provides heat removal capability to ensure equipment temperature limits are maintained for the ESW pumps and the Unit 1 and Unit 2 RHRSW pumps. These pumps are required to operate to mitigate a design basis event. The ESSW Pumphouse ventilation system consists of two subsystems that provide the primary means to remove heat from the pumphouse. Each subsystem consists of four trains. A train consists of a fan and associated dampers.

Each ventilation subsystem provides cooling for separate divisions of equipment. Each division consists of two ESW pumps, one Unit 1 RHRSW pump and one Unit 2 RHRSW pump. The two ESSW Pumphouse Ventilation Subsystems provide the normal and emergency ventilation for the ESSW pumphouse. (Reference 1)

ACTIONS

The ACTIONS are modified by two Notes. Note 1 directs the entry into both a Condition for an inoperable fan(s) and Condition E for inoperable dampers when both one or more fans and one or more dampers are inoperable. Should the fan(s) and one or more dampers in an ESSW Pumphouse Ventilation Subsystem fan train(s) be inoperable, entry into two Conditions is required.

Note 2 allows a gagged damper to be un-gagged intermittently under administrative controls to allow for work and/or operability testing. These controls consist of stationing a dedicated person capable of installing a gag, who is in communication with the control room, at the damper. In this way, the damper can be re-gagged if the associated ESW/RHRSW pump starts. An exception to the administrative control requirement to have a dedicated person stationed at the damper is when a damper has been repaired and successfully tested for operability but all of the required documentation has not been completed (i.e., functional but not administratively operable). If an inoperable damper remains un-gagged under administrative controls for a period of time greater than allowed by the action statements (i.e., 72 hrs.), the associated ESWRHRSW pump must be declared inoperable.

The Actions are defined to ensure proper corrective measures are taken in response to inoperable components. The completion times are similar to completion times for the ESW system and are also based on engineering judgement that accounts for the fact that the system is a support system whose function is to maintain the ESSW Pumphouse temperature within limits.

(continued)

B 3.7.6 ESSW Pumphouse Ventilation

BASES

ACTIONS
(continued)

Each subsystem of ESSW pumphouse equipment can maintain acceptable temperatures to meet design basis limits when all ventilation subsystem fan trains are OPERABLE. If a fan's associated damper(s) are inoperable, the associated fan subsystem can perform its intended safety function provided the inoperable fan(s) damper(s) are gagged in the appropriate position as determined by Engineering. The gagged damper position ensures that the ambient temperatures will remain within limits thus assuring no degradation of ESSW pumphouse equipment. An inoperable fan reduces the cooling capability of the subsystem thus compromising the subsystems ability to maintain temperatures within design limits.

Condition E is modified by a separate note to allow separate Condition entry for each damper. This is acceptable since the Required Action for this condition provides appropriate compensatory actions.

TRS

The TRSs are defined to be performed at the specified Frequency to ensure that the ESSW Pumphouse Ventilation Systems are maintained OPERABLE.

Verifying the fans are OPERABLE includes ensuring fans and associated dampers have properly functioned when operated to support normal pump operation. This ensures adequate pump heat removal capability.

REFERENCES

1. FSAR Section 9.4.8
 2. Safety Evaluation NL-99-057
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