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Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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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.3.9.1	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	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	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
2/2/05

1.0 PLANT PROGRAMS AND SETPOINTS

2.1 Plant Programs

Table 2,1-1 lists the Plant Programs required as a result of the plant Technical Specification or other Plant License condition. Each program listing identifies the program source and implementing documents and is intended to provide an index to these documents only.

Table 2.1-1
PLANT PROGRAMS
(Page 1 of 3)

PROGRAM DESIGNATION		PROGRAM SOURCE	IMPLEMENTING DOCUMENT	
2.1.1	Offsite Dose Calculation Manual (ODCM)	Tech Spec 5.5.1	ODCM-QA-001	ODCM Introduction
			ODCM-QA-002	ODCM Review and Revision Control
			ODCM-QA-003	Effluent Monitor Setpoints
			ODCM-QA-004	Airborne Effluent Dose Calculations
			ODCM-QA-005	Waterborne Effluent Dose Calculations
			ODCM-QA-006	Total Dose Calculations
			ODCM-QA-007	Radioactive Waste Treatment Systems
			ODCM-QA-008	Radiological Environmental Monitoring Program
			ODCM-QA-009	Dose Assessment Policy Statements
2.1.2	Primary Coolant Sources Outside Containment	Tech Spec 5.5.2	NSEP-QA-401	System Leakage Quantification Program
2.1.3	Not Used			

(continued)

Table 2.1-1
PLANT PROGRAMS
(Page 2 of 3)

PROGRAM DESIGNATION		PROGRAM SOURCE	IMPLEMENTING DOCUMENT	
2.1.4	Radioactive Effluent Controls	Tech Spec 5.5.4	TRO 2.1.1	ODCM
			TRO 3.6.1	Containment VENTING and PURGING
			TRO 3.11 Series	RADIOACTIVE EFFLUENTS
2.1.5	Component Cyclic or Transient Limit	Tech Spec 5.5.5	NEPM-QA-0901	Plant Transient and Fatigue Monitoring Program
2.1.6	Inservice Testing	Tech Spec 5.5.6	NDAP-QA-0423	Station Pump and Valve Testing Program
2.1.7	Ventilation Filter Testing	Tech Spec 5.5.7	NDAP-QA-0407	Filter Testing of HEPA and Charcoal Filtration Units
2.1.8	Explosive Gas and Storage Tank Radioactivity Monitoring	Tech Spec 5.5.8	NDAP-QA-1180	Storage Tank Radioactivity Monitoring Program
			TRO 3.7.5.1	Main Condenser Offgas Hydrogen Monitor
			TRO 3.7.5.2	Main Condenser Explosive Gas Mixture

(continued)

Table 2.1-1
PLANT PROGRAMS
(Page 3 of 3)

PROGRAM DESIGNATION		PROGRAM SOURCE	IMPLEMENTING DOCUMENT	
2.1.9	Diesel Fuel Oil Testing	Tech Spec 5.5.9	NDAP-QA-0633	Diesel Fuel Oil Testing
2.1.10	Technical Specification (TS) Bases Control	Tech Spec 5.5.10	NDAP-QA-0730	Controlling Changes to Licensing Documents
2.1.11	Safety Function Determination	Tech Spec 5.5.11	NDAP-QA-0312	Safety Function Determination Program
2.1.12	Primary Containment Leakage Rate Testing	Tech Spec 5.5.12	NDAP-QA-0412	Leakage Rate Test Program
2.1.13	Fire Protection	Item d; Tech Spec 5.4.1	NDAP-QA-0449	Fire Protection Program

3.5 Emergency Core Cooling and RCIC

3.5.1 ADS Manual Inhibit

TRO 3.5.1 One ADS Manual Inhibit function per division shall be OPERABLE

APPLICABILITY: ADS Inhibit: When SLCS is required to be OPERABLE per LCO 3.1.7
ADS Permissive: When ADS is required to be OPERABLE per LCO 3.3.5.1

ACTIONS

NOTES

Separate Condition entry is allowed for each channel.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or both ADS Manual Inhibit functions inoperable.	A.1 Restore ADS Manual Inhibit function to OPERABLE status	96 hours from discovery of inoperable channel concurrent with HPCI or reactor core isolation cooling (RCIC) inoperable AND 8 days
	AND	
	A.2 Enter applicable Conditions and Required Actions of LCO 3.3.5.1 "ECCS Instrumentation" for Technical Specification Instrumentation Functions made inoperable by failure of the ADS Manual Inhibit switch.	Immediately

(continued)

TECHNICAL REQUIREMENT SURVEILLANCE

SURVEILLANCE	FREQUENCY
TRS 3.5.1.1 Perform LOGIC SYSTEM FUNCTIONAL TEST	24 months
TRS 3.5.1.2 Perform CHANNEL FUNCTIONAL TEST	24 months

3.8 Electrical Power

3.8.1 Primary Containment Penetration Conductor Overcurrent Protective Devices

TRO 3.8.1 The primary containment penetration conductor overcurrent protective devices in Table 3.8.1-1 shall be OPERABLE.

APPLICABILITY: MODES 1, 2 and 3

ACTIONS

NOTE

Separate condition entry is allowed for each device.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more containment penetration conductor overcurrent protective devices inoperable.	A.1 Deenergize the circuit(s) and declare the affected system or component inoperable.	72 hours
	AND	
	A.2 Verify affected circuit deenergized.	Once per 7 days
B. Required Action and associated Completion Time for Condition A not met.	B.1 Be in MODE 3.	12 hours
	AND	
	B.2 Be in MODE 4.	36 hours

TECHNICAL REQUIREMENT SURVEILLANCE

	SURVEILLANCE	FREQUENCY
TRS 3.8.1.1	----------NOTE---------- For each circuit breaker found inoperable, an additional representative sample of ≥10% of all the circuit breakers of the inoperable type shall be functionally tested until no more failures are found or all circuit breakers of that type have been functionally tested. ---------- Perform a functional test on a representative sample of ≥ 10% of each type of lower voltage circuit breaker.	24 months
TRS 3.8.1.2	Perform a functional test on each overcurrent relay.	24 months
	----------NOTE---------- The provisions of TRS 3.0.2 are not applicable ----------	
TRS 3.8.1.3	Subject each circuit breaker to inspection and preventive maintenance.	120 months

TABLE 3.8.1-1 (Page 1 of 2)
PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

	Circuit Breaker Designation		System/Equipment Powered
A.	Type 150A Frame – Thermal Magnetic		
1.	1B237043	1B237043A	Rx Recirc/HV-B31-1F023A
2.	1B219022	1B219022A	Rx Recirc/HV-B31-1F031A
3.	1B219023	1B219023A	Rx Recirc/HV-B31-1F032A
4.	1B246011	1B246011A	Rx Recirc/HV-B31-1F023B
5.	1B229022	1B229022A	Rx Recirc/HV-B31-1F031B
6.	1B229023	1B229023A	Rx Recirc/HV-B31-1F032B
7.	1B236042	1B236042A	Drywell Air Flow/1V411A
8.	1B236032	1B236032A	Drywell Air Flow/1V412A
9.	1B236011	1B236011A	Drywell Air Flow/1V413A
10.	1B236033	1B236033A	Drywell Air Flow/1V414A
11.	1B236082	1B236082A	Drywell Air Flow/1V415A
12.	1B236043	1B236043A	Drywell Air Flow/1V416A
13.	1B236021	1B236021A	Drywell Air Flow/1V417A
14.	1B246091	1B246091A	Drywell Air Flow/1V411B
15.	1B246103	1B246103A	Drywell Air Flow/1V412B
16.	1B246102	1B246102A	Drywell Air Flow/1V413B
17.	1B246061	1B246061A	Drywell Air Flow/1V414B
18.	1B246072	1B246072A	Drywell Air Flow/1V415B
19.	1B246081	1B246081A	Drywell Air Flow/1V416B
20.	1B246051	1B246051A	Drywell Air Flow/1V417B
21.	1B236123	1B236123A	Drywell Air Flow/1V418A
22.	1B246121	1B246121A	Drywell Air Flow/1V418B
23.	1B236052	1B236052A	RHR/HV-E11-1F009
24.	1B237073	1B237073A	RHR/HV-E11-1F022
25.	1B237082	1B237082A	HPCI/HV-E41-1F002
26.	1B253021	1B253021A	NSSS/HV-B21-1F011A
27.	1B263023	1B263023A	NSSS/HV-B21-1F011B
28.	1B253041	1B253041A	MSIV Hoist/TBB15
29.	1B263021	1B263021A	MSIV Hoist/TBB16

(continued)

TABLE 3.8.1-1 (Page 2 of 2)
PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

	Circuit Breaker Designation		System/Equipment Powered
B.	Type 150A Frame – Magnetic		
1.	1B236023	1B236023A	Cont. Inst. Gas/HV-12603
2.	1B246022	1B246022A	RCIC/HV-E51-1F007
3.	1B237072	1B237072A	NSSS/HV-B21-1F016
4.	1B236102	1B236102A	NSSS/HV-B21-1F001
5.	1B246112	1B246112A	NSSS/HV-B21-1F002
6.	1B246113	1B246113A	NSSS/HV-B21-1F005
7.	1B236053	1B236053A	RWCU/HV-G33-1F001
8.	1B253052	1B253052A	RWCU/HV-G33-1F102
9.	1B263043	1B253043A	RWCU/HV-G33-1F100
10.	1B263052	1B263052A	RWCU/HV-G33-1F106
11.	1B263081	1B263081A	RWCU/HV-G33-1F101
12.	1B246062	1B246062A	RBCCW/HV-11346
13.	1B246012	1B246012A	RBCCW/HV-11345
14.	1B253063	1B253063A	Drywell Sump/1P402A
15.	1B263071	1B263071A	Drywell Sump/1P402B
16.	1B253043	1B253043A	Drywell Sump/1P403A
17.	1B263072	1B263072A	Drywell Sump/1P403B
C.	Type 250A Frame – Thermal Magnetic		
1.	1B216092	1B216083	Cont. H2 Recombiner/1E440A
2.	1B226103	1B226102	Cont. H2 Recombiner/1E440B
3.	1B236103	1B236122	Cont. H2 Recombiner/1E440C
4.	1B246033	1B246044	Cont. H2 Recombiner/1E440D
D.	Circuit Breakers Tripped by Overcurrent Relays		
1.	1A20501	1A20502	Rx Recirc/1P401A
2.	1A20601	1A20602	Rx Recirc/1P401B

B 3.3.3 Meteorological Monitoring Instrumentation

BASES

TRO

The OPERABILITY of the meteorological monitoring instrumentation ensures that sufficient meteorological data is available for estimating potential radiation doses to the public as a result of routine or accidental release of radioactive materials to the atmosphere. This capability is required to evaluate the need for initiating protective measures to protect the health and safety of the public. This instrumentation is consistent with the recommendations of U. S. Nuclear Regulatory Commission, Second Proposed Revision 1 to Regulatory Guide 1.23, Meteorological Measurement Program for Nuclear Power Plants, April 1986, (Reference 1), with the exception to accuracy criteria for delta temperature measurement. The commitment to accuracy criteria for delta temperature is Atomic Energy Commission Safety Guide 23, February 1972 (Reference 2).

ACTIONS

The Actions are defined to ensure proper corrective measures are taken in response to the inoperable components.

TRS

The TRSs are defined to be performed at the specified Frequency to ensure that the Meteorological Monitoring Function is maintained OPERABLE.

TRS 3.3.3.1

Performance of the CHANNEL CHECK ensures that a gross failure of instrumentation has not occurred. A CHANNEL CHECK is normally a comparison of the parameter indicated on one channel against a similar parameter on other channels. It is based on the assumption that instrument channels monitoring the same parameter should read approximately the same value. Significant deviations between instrument channels could be an indication of excessive instrument drift in one of the channels or something even more serious. A CHANNEL CHECK will detect gross channel failure; thus, it is key to verifying the instrumentation continues to operate properly between each CHANNEL CALIBRATION.

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

(continued)

B 3.3.3 Meteorological Monitoring Instrumentation

BASES

TRS (continued)

TRS 3.3.3.2

The CHANNEL CALIBRATION requirement for the 10 meter and 60 meter wind speed sensors may be performed while substituting a frequency signal in place of the sensor assembly output. This frequency is chosen in accordance with a manufacturer-supplied equation that relates wind speed to output frequency of the wind speed sensor. It is required that the sensor bearings are replaced as part of this calibration, and the sensor assembly is examined and any deficiencies corrected. This is in accordance with the manufacturer's operating and maintenance manual, which states additional calibration on the sensor is not necessary. This methodology is consistent with the FSAR (Meteorological System Section 2.3.3.5) which states that all calibration and maintenance is performed with frequencies and procedures prescribed in the manufacturer's operating and maintenance manual.

REFERENCES

1. U. S. Nuclear Regulatory Commission, Second Proposed Revision 1 to Regulatory Guide 1.23, Meteorological Measurement Program for Nuclear Power Plants, April 1986.

2. Atomic Energy Commission Safety Guide 23, February 1972 (Regulatory Guide 1.23, Rev. 0).

B 3.8.1 Primary Containment Penetration Conductor Overcurrent Protective Devices

BASES

TRO

TRO 3.8.1 requires that all primary containment penetration conductor overcurrent protective devices are OPERABLE. This assures that the design limits of the containment electrical penetrations will not be challenged as a result of electrical faults on the penetration conductors. Primary containment electrical penetrations and penetration conductors are protected by either de-energizing circuits not required during reactor operation or demonstrating the OPERABILITY of primary and backup overcurrent protection circuit breakers by periodic surveillance.

ACTIONS

The ACTIONS are defined to ensure proper corrective measures are taken in response to the inoperable components.

The ACTIONS have been modified by a Note to clarify the application of Completion Time rules. The Conditions of this TRO may be entered independently for each affected protective device. The Completion Time(s) of the inoperable primary containment penetration conductor overcurrent protective device will be tracked separately for each affected device starting from the time the Condition was entered for that device as a result of discovery of an inoperable device.

A.1 and A.2

With one or more required primary containment penetration conductor overcurrent protective devices inoperable, the circuit(s) associated with the inoperable protection device(s) must be placed in a condition that would preclude the possibility of a fault that could overload the circuit(s). To accomplish this, the circuit is deenergized. Since systems or components supplied by the affected circuit will no longer have power, they must be declared inoperable. The 72 hour Completion Time takes into account the design of the electrical penetration for maximum fault current, the availability of backup circuit protection on the distribution system and the low probability of a design basis accident occurring during this period. This Completion Time is also considered reasonable to perform the necessary repairs or circuit alterations to restore or otherwise deenergize the affected circuit.

In order to assure that any electrical penetration which is not protected by an overcurrent device remains deenergized, it is necessary to periodically verify that its alternate circuit breaker is opened, or that the inoperable circuit breaker is opened. A Completion Time of once per 7 days is considered sufficient due to the infrequency of plant operations that could result in reenergizing a circuit that has been deenergized in this manner.

(continued)

B 3.8.1 Primary Containment Penetration Conductor Overcurrent Protective Devices

BASES

ACTIONS (continued)

B.1

In the event that the Required Actions and associated Completion Times of Condition A are not met, the plant must be placed in a MODE or other specified condition in which the TRO does not apply. This is done by placing the plant in at least MODE 3 within 12 hours and in MODE 4 within 36 hours. The Completion Times are reasonable, based on operating experience, to reach the required plant conditions from full power conditions in an orderly manner and without challenging plant systems.

TRS

The TRSs are performed at the specified Frequency to ensure that the required overcurrent protective devices are maintained OPERABLE.

TRS 3.8.1.1

This surveillance requires the performance of a functional test on a representative sample of ≥ 10% of each type of lower voltage circuit breaker used as penetration protection. This sample size is sufficiently large to represent the actual failure distribution within the whole population of circuit breakers of a given type used in the plant. Circuit breakers selected for functional testing should be selected on a rotating basis.

A representative sample is determined based upon each manufacturer's brand of circuit breaker. Each manufacturer's molded case and metal case circuit breakers are grouped into representative samples, which are then tested on a rotating basis to ensure that all breakers are tested. If a wide variety exists within any manufacturer's brand of circuit breakers, it is necessary to divide that manufacturer's breakers into groups and treat each group as a separate type of breaker for surveillance purposes.

This surveillance has been modified by a Note, stating that for each circuit breaker found inoperable during these functional tests, an additional representative sample of at least 10% of all circuit breakers of the inoperable type shall be functionally tested until no more failures are found or all circuit breakers of that type have been tested. The expansion of the test population ensures that a failure discovered in the representative sample was not caused by a failure mechanism that could systematically affect other breakers in the overall population of breakers of the same type.

The functional tests required by TRS 3.8.1.1 consist of injecting a current with a value equal to 300% of the pickup of the thermal (long term time delay) element of Types 150A Frame and 250A Frame (thermal magnetic)

(continued)

B 3.8.1 Primary Containment Penetration Conductor Overcurrent Protective Devices

BASES

TRS (continued)

circuit breakers, and verifying that the circuit breaker operates within the time delay band-width specified by the manufacturer for the test current. The magnetic (instantaneous) element is tested by injecting a current in excess of 120% of the pickup value of the magnetic (instantaneous) element and verifying that the circuit breaker trips instantaneously with no intentional time delay. Type 150A Frame (magnetic only) circuit breaker testing also follows this procedure except that no thermal trip elements are involved. Circuit breakers found inoperable during functional testing should be restored to OPERABLE status prior to resuming operation.

If there are any failure mechanisms that could affect the OPERABILITY of the circuit breaker(s) they are likely to have occurred in the sample tested. The 24 month Frequency takes into consideration the infrequent operation of the breakers and their correspondingly low failure rate.

TRS 3.8.1.2

This surveillance requires the performance of a functional test on each required overcurrent relay. The functional test consists of injecting a current in excess of 120% of the nominal relay initiation current and measuring the response time. The acceptable measured response time is within ±10% of the specified value. The 24 month Frequency takes into consideration the infrequent operation of the breakers and their correspondingly low failure rate.

TRS 3.8.1.3

This surveillance requires the inspection of each circuit breaker and the performance of procedures prepared in conjunction with the manufacturer's recommendations. By performance of recommended maintenance, the likelihood for the circuit breakers to become inoperable can be minimized. The 120 month Frequency takes into consideration the low frequency of operation of the circuit breakers and the low likelihood that operation and maintenance activities could adversely affect the OPERABILITY of the circuit breakers. Provisions of TRS 3.0.2 are not applicable.

REFERENCES None

B 3.8.6 Emergency Switchgear Room Cooling

BASES

TRO	The Emergency Switchgear Room Cooling (ESRC) system provides heat removal capability for the emergency switchgear that is required to operate during the mitigation of a design basis event. The room cooling system provides the primary means to remove heat from the emergency switchgear. (Reference 1) Two emergency switchgear room coolers provide the normal and emergency ventilation for the emergency switchgear. This requirement does not include equipment used in normal cooling mode, which serves no post accident function. It includes Control Structure Chilled Water.
ACTIONS	The Actions are defined to ensure proper corrective measures are taken in response to the inoperable components. These actions are based on the relative impact of ESRC operability on the ability of the Emergency Switchgear to perform its safety function. With one required Emergency Switchgear Room Cooling subsystem inoperable (Condition A) in MODES 4 or 5, during OPDRVs, CORE ALTERATIONS, or when handling irradiated fuel in the secondary containment, no action is provided or need be taken in response to the condition. LCO 3.8.7 is entered in the event that the Required Action and associated Completion Time of Condition A or B are not met in MODES 1, 2 or 3. LCO 3.8.8 is entered in the event that the Required Action and associated Completion Time of Condition B are not met in MODES 4 or 5, or during OPDRVs, CORE ALTERATIONS, or when handling irradiated fuel in the secondary containment.
TRS	The TRSs are defined to be performed at the specified Frequency to ensure that the systems are maintained OPERABLE.
REFERENCE	1. FSAR Section 9.4.2.2