Apr. 07, 2010

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Name: GERLACH*ROSE M EMPL#: 028401 CA#: 0363

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TRM1 - TECHNICAL REQUIREMENTS MANUAL UNIT 1

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ADD MANUAL TABLE OF CONTENTS DATE: 04/05/2010

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CATEGORY: DOCUMENTS TYPE: TRM1
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A001
NRR

CATEGORY: DOCUMENTS TYPE: TRM1
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Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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3.12	LOADS CONTROL PROGRAM	
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4.0	ADMINISTRATIVE CONTROLS	
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	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
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B 3.1	REACTIVITY CONTROL SYSTEMS BASES	
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	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
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	Page TRM / B 3.7-9	03/31/2006
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B.3.9	REFUELING OPERATIONS BASES	
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B 3.10	MISCELLANEOUS BASES	
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B 3.11	RADIOACTIVE EFFLUENTS BASES	
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B.3.12	LOADS CONTROL PROGRAM BASES	
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TRM1 text LOES
3/24/2010

B 3.3.10 Reactor Recirculation Pump MG Set Stops

BASES

TRO

In the case of recirculation control system failures (e.g., transistors, resistors, etc.) causing upscale signal failure, the reactor is protected by high pressure or high flux scram. Such faults have been analyzed in Chapter 15 and include both MG sets going to full speed simultaneously. For this analysis, the Integrated Control System (ICS) Recirculation MG Set Speed Control logic is assumed to fail such that it causes a speed increase for both recirculation pumps.

Pump overspeed occurs during the course of a LOCA due to blowdown through the broken loop pump. Design studies determined that rotating component failure missiles caused by the overspeed was not sufficient to cause damage to the containment or to vital equipment, consequently no protective or preventative provision is made for this pump overspeed condition.

No credit is taken for electrical or mechanical stops to limit the speed of the recirculation pumps in these analyzed events.

Normally, operator implementation or procedural controls maintains the recirculation system within the system design limits and initial conditions of analyzed events. The reactor recirculation pump MG set stops are set with some operating margin above these limits. As such, the stops serve as backups to the operator control over normal operation. Additionally, in the event of a fault that results in inadvertent MG set speed increases above the normal operating limits, the stops can provide protection from the automatic reactor scram that terminate the analyzed worse case events. Therefore, the MG set stops also serve to provide additional plant reliability protection.

The electrical stop is the primary means for backing up procedural controls and for automatically limiting recirculation flow. The electrical stop is implemented as a high output limiter in the Integrated Control System (ICS) Recirculation MG Set Speed Control logic. This adjustable limiter function is applied to the analog speed demand signal (e.g. Scoop Tube position "command"). The mechanical stop provides a diverse and redundant backup to the electrical stop limiting mechanism. The mechanical stop is implemented via a physical bolt on the Scoop Tube actuator.

ACTIONS

The Actions are modified by a Note allowing separate Condition entry for each recirculation pump. The Required Actions provide appropriate compensatory measures for each recirculation loop independent of the other loop.

(continued)

B 3.3.10 Reactor Recirculation Pump MG Set Stops

BASES

ACTIONS (continued)

A.1

Either the electrical or the mechanical stop can provide backup protection to the procedural controls in place to maintain recirculation pump operation within the system design limits and initial conditions of analyzed events. In the event one of these un-creditied backup features is inoperable it is reasonable to extend the restoration time (in the event conditions do not permit more timely corrective action) until the next scheduled required calibration. With the backup protection of the electrical or mechanical stop remaining OPERABLE, backup protection remains and allows time to schedule and plan appropriate repairs. Since there is no assumed credit for either backup function, this Completion Time is considered appropriate.

B.1

With both the electrical and mechanical stops inoperable for any recirculation pump MG set, the automatic backup protection is not available. In this case, the scoop tube is locked in place to protect against unintended / inadvertent speed increases. This action conservatively compensates for lack of backup protection and allows continued operation until at least one MG set stop function (electrical or mechanical) is restored to operable status. The Required Action is modified by a Note allowing intermittent unlocking of the scoop tube. This may be required for power reductions or other power level adjustments. The administrative control consists of stationing a dedicated operator at the controls while the scoop tube is unlocked and the duration should be limited to the time necessary to complete the change in core flow.

TRS

The TRS assures that the stops are demonstrated OPERABLE at least once per cycle. Normal scoop tube positioner calibration is performed after each refueling outage. Inoperable stops are detectable on line during scoop tube positioner calibration.

REFERENCES

1. FSAR Section 5.4.1.4.
2. FSAR Section 7.7.2.3.1.
3. FSAR Section 15.4.5.

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.	1B236053	1B236053A	RWCU/HV-G33-1F001
	12.	1B236082	1B236082A	Drywell Air Flow/1V415A
	13.	1B236043	1B236043A	Drywell Air Flow/1V416A
	14.	1B236021	1B236021A	Drywell Air Flow/1V417A
	15.	1B246091	1B246091A	Drywell Air Flow/1V411B
	16.	1B246103	1B246103A	Drywell Air Flow/1V412B
	17.	1B246102	1B246102A	Drywell Air Flow/1V413B
	18.	1B246061	1B246061A	Drywell Air Flow/1V414B
	19.	1B246072	1B246072A	Drywell Air Flow/1V415B
	20.	1B246081	1B246081A	Drywell Air Flow/1V416B
	21.	1B246051	1B246051A	Drywell Air Flow/1V417B
	22.	1B236123	1B236123A	Drywell Air Flow/1V418A
	23.	1B246121	1B246121A	Drywell Air Flow/1V418B
	24.	1B236052	1B236052A	RHR/HV-E11-1F009
	25.	1B237073	1B237073A	RHR/HV-E11-1F022
	26.	1B237082	1B237082A	HPCI/HV-E41-1F002
	27.	1B253021	1B253021A	NSSS/HV-B21-1F011A
	28.	1B263023	1B263023A	NSSS/HV-B21-1F011B
	29.	1B253041	1B253041A	MSIV Hoist/TBB15
	30.	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.	1B253052	1B253052A	RWCU/HV-G33-1F102
8.	1B263043	1B253043A	RWCU/HV-G33-1F100
9.	1B263052	1B263052A	RWCU/HV-G33-1F106
10.	1B263081	1B263081A	RWCU/HV-G33-1F101
11.	1B246062	1B246062A	RBCCW/HV-11346
12.	1B246012	1B246012A	RBCCW/HV-11345
13.	1B253063	1B253063A	Drywell Sump/1P402A
14.	1B263071	1B263071A	Drywell Sump/1P402B
15.	1B253043	1B253043A	Drywell Sump/1P403A
16.	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

3.8 Electrical Power

3.8.3 Diesel Generator (DG) Maintenance Activities

TRO 3.8.3 The Technical Requirements Surveillances specified in this TRO shall be performed at the Frequency specified for each DG.

APPLICABILITY: When the associated DG is required to be OPERABLE

ACTIONS

---------- NOTE ----------
Separate condition entry is allowed for each Diesel Generator.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. TRO requirements not met.	A.1 Declare affected DG inoperable.	Immediately

TECHNICAL REQUIREMENT SURVEILLANCE

SURVEILLANCE		FREQUENCY
TRS 3.8.3.1	Inspect diesel in accordance with procedures prepared in conjunction with its manufacturer's recommendations for this class of standby service.	5 years
TRS 3.8.3.2	Verify that the auto-connected loads to each diesel generator do not exceed the 2000-hour rating of 4700 kW.	24 months

(continued)

TECHNICAL REQUIREMENT SURVEILLANCE (continued)

SURVEILLANCE		FREQUENCY
TRS 3.8.3.3	Verify that the following diesel generator lockout features do not prevent diesel generator starting and/or operation when not required: a. Engine overspeed. b. Generator differential. c. Engine low lube oil pressure.	24 months
TRS 3.8.3.4	For each fuel oil storage tank a. Drain the fuel oil; b. Remove the sediment, and c. Clean the tank	10 years
TRS 3.8.3.5	Perform a pressure test of those portions of the fuel oil system designed to Section III, Subsection ND of the ASME Code in accordance with ASME Code Section XI Article IWD-5000.	10 years