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TRM1 - TECHNICAL REQUIREMENTS MANUAL UNIT 1

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<u>Section</u>	<u>Title</u>	<u>Effective Date</u>
	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
4/14/2010

3.4 Reactor Coolant System (RCS)

3.4.6 Reactor Recirculation Single Loop Operation (SLO) Flow Rate Restriction

TRO 3.4.6 In single loop operation, establish operating Reactor Recirculation Loop Flow Rate to less than or equal to 53.0 Mlbm/hr

APPLICABILITY: MODES 1 and 2

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Requirements of the TRO not met	A.1 Restore reactor recirculation loop flow rate to within limits	30 minutes
B. Requirements of Condition A not met	B.1 Place Reactor Mode Switch in Shutdown	Immediately
	AND B.2 Restore reactor recirculation loop flow rate to within limits	Immediately

TECHNICAL REQUIREMENT SURVEILLANCE

SURVEILLANCE	FREQUENCY
TRS 3.4.6.1 Verify the operating loop flow rate is less than or equal to 53.0 Mlbm/hr.	Once every four hours

B 3.4.6 Reactor Recirculation Single Loop Operation (SLO) Flow Rate Restriction

BASES

TRO	TRO 3.4.6 requires that the operating loop flow rate be maintained less than or equal to 53.0 Mlbm/hr during single loop operation. Note that the parameter of concern is the 3 minute average recirculation system loop flow (e.g., PICSY point NJF02B and NJF03B) not core flow. This restriction avoids excessive vibration of jet pump components. Fatigue usage can be accumulated when loop flow rates are above 54 Mlbm/hr if large gaps are present. In reference 2 the analysis determined that during Unit 1 17 th cycle operation, the normal dual loop operation flow rates are limited to 53 Mlbm/hr on the "A" loop and 54 Mlbm/hr on the "B" loop. The single loop operation limits in either loop are set at 53 Mlbm/hr to provide margin to the limit of 54 Mlbm/hr. Excessive vibration can lead to cracking of the jet pump riser brace welds. The limitation contained in this TRO will assure jet pump integrity will be maintained and thus the FSAR Chapter 15 analysis assumption of maintaining 2/3 core height will be met. Additionally, these measures will assure asset preservation and avoid lengthy repairs due to potential riser brace cracking. The required action to place the reactor mode switch in shutdown in 30 minutes assures the flow rate is established within limits. The time frames are required to avoid excessive vibrations that occur at higher loop flow rates and the subsequent impact on jet pump riser brace.
APPLICABILITY	This Requirement is applicable whenever in reactor recirculation single loop operation in Modes 1 and 2.
ACTIONS	The Actions assure that excessive jet pump vibration can not occur when in single loop operation.
TRS	The required surveillance assures that the maximum loop flow rate is not exceeded.
REFERENCES	<ol style="list-style-type: none"> 1. FSAR Section 15.6 2. GE Report "Fatigue Usage Evaluation for Jet Pump Assembly with Set Screw Gap Condition and Justification for Continued Operation," April 2010