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REACTOR COOLANT SYSTEM

3/4.4.9 PRESSURE/TEMPERATURE LIMITS

REACTOR COOLANT SYSTEM

LIMITING CONDITION FOR OPERATION

3.4.9.1 The Reactor Coolant System (except the pressurizer) temperature and pressure shall be limited in accordance with the limit lines shown on Figures 3.4-2, 3.4-3, 3.4-4 during heatup, cooldown, criticality, and inservice leak and hydrostatic testing with:

- a. A maximum heatup of 100°F in any one hour period.
- b. A maximum cooldown of 100°F in any one hour period.

APPLICABILITY: At all times.

ACTION:

With any of the above limits exceeded, restore the temperature and/or pressure to within the limits within 30 minutes; perform an engineering evaluation to determine the effects of the out-of-limit condition on the fracture toughness properties of the Reactor Coolant System; determine that the Reactor Coolant System remains acceptable for continued operation or be in at least HOT STANDBY within the next 6 hours and reduce RCS T_{avg} and pressure to less than 200°F and 500 psig, respectively, within the following 30 hours.

SURVEILLANCE REQUIREMENTS

4.4.9.1.1 The Reactor Coolant System temperature and pressure shall be determined to be within the limits at least once per 30 minutes during system heatup, cooldown, and inservice leak and hydrostatic testing operations.

4.4.9.1.2 The reactor vessel material irradiation surveillance specimens shall be removed and examined, to determine changes in material properties, at the intervals shown in Table 4.4-5. The results of these examinations shall be used to update Figures 3.4-2 and 3.4-3.

TABLE 4.4-5

REACTOR VESSEL MATERIAL IRRADIATION SURVEILLANCE SCHEDULE

<u>At Initial Fuel Load</u>			
<u>Holder Tube</u>	<u>Remove</u>	<u>Location in Holder Tube</u>	<u>Insert</u>
WX		Top	TMI-L1
WX		Bottom	TMI-2B
XW		Top	TMI-2A
XW		Bottom	TMI-2D
ZY		Top	TMI-1A
ZY		Bottom	TMI-L2
<u>End of 1st Cycle</u>			
WX	TMI-L1	Top	TMI-1B
XW	TMI-2A	Top	TMI-2F
<u>End of 3rd Cycle</u>			
WX	TMI-2B	Bottom	TMI-1C
ZY	TMI-1A	Top	TMI-2C
<u>End of 6th Cycle</u>			
WX	TMI-1B	Top	TMI-1D
XW	TMI-2D	Bottom	TMI-2E
<u>End of 10th Cycle</u>			
ZY	TMI-L2	Bottom	TMI-1F
<u>End of 11th Cycle</u>			
WX	TMI-1C	Bottom	Dummy # 1
<u>End of 13th Cycle</u>			
XW	TMI-2F	Top	Dummy # 2
<u>End of 15th Cycle</u>			
WX	TMI-1D	Top	None
WX	Dummy # 1	Bottom	None
<u>End of 16th Cycle</u>			
ZY	TMI-2C	Top	Dummy # 1
<u>End of 19th Cycle</u>			
XW	Dummy # 2	Top	None
XW	TMI-2E	Bottom	None
<u>End of 24th Cycle</u>			
ZY	Dummy # 1	Top	None
ZY	TMI-1F	Bottom	None