TABLE 2.2-1 (continued)

**

REACTOR PROTECTIVE SYSTEM INSTRUMENTATION TRIP SETPOINTS

TRIP SETPOINT FUNCTIONAL UNIT 8. High Main Coolant System Pressure < 2300 psig > 1800 psig Low Main Coolant System Pressure 9. < 200 inches 10. High Pressurizer Water Level > - 13* 11. Low Steam Generator Water Not Applicable 12. Turbine Trip Not Applicable 13. Generator Trip > 200 psig 14. Main Steam Isolation Trip Logic

*Where 0 inches corresponds to 10" above the feed ring centerline.

12

YANKEE-ROWE

EMERGENCY CORE COOLING SYSTEMS

Valve Number

1. MC-MOV-326*

SURVEILLANCE REQUIREMENTS (continued)

2. Verifying that the following valves are in their normally opened positions with power to the valve operators removed by removal of the circuit breaker from the motor control center:

a. SI-MOV-4 b. SI-MOV-22 c. SI-MOV-23 d. SI-MOV-24 e. SI-MOV-25 LPSI Pump Cross Over to HPSI Pump SI Header Isolation to Cold Leg SI Header Isolation to Cold Leg SI Header Isolation to Cold Leg SI Header Isolation to Cold Leg

Valve Function

3. Verifying that power to the valve operators is removed by disconnecting the power cables as they leave the motor starters:

Valve Function Valve Number SI Header Isolation to Cold Leg a. CS-MOV-536 SI Header Isolation to Cold Leg b. CS-MOV-537 SI Header Isolation to Cold Leg c. CS-MOV-538 d. CS-MOV-539 SI Header Isolation to Cold Leg MCS Loop Isolation e. MC-MOV-301 MCS Loop Isolation f. MC-MOV-302* g. MC-MOV-309 MCS Loop Isolation MCS Loop Isolation h. MC-MOV-310* MCS Loop Isolation 1. MC-MOV-318* MCS Loop Isolation 1. MC-MOV-319 k. MC-MOV-325 MCS Loop Isc ation

MCS Loop Isolation

In MODE 2, 3, 4*, 5*, power cables may be connected to the MCS loops isolation valves when required to close the valves for main coolant pump(s) starting. After the pump(s) has been started, the valve(s) shall be reopened and power cables disconnected.

YANKEE-ROWE

e -

EMERGENCY	CORE	COOLING	SYSTEMS

SURVEILLANCE REQUIREMENTS (continued)

4. Verifying that the following valves are in their normally closed position with power to the valve operator removed by disconnecting the power cables as they leave the motor starter:

Valve Number		Valve Function			
а.	CS-MOV-532	LPSI Recirculation Line			
ь.	CS-MOV-534	LPSI Pump Header Isolation Valve H	ypass		

Note: CS-MOV-532 may be opened for \leq 30 minutes once per week for safety injection tank mixing or low pressure safety injection pump testing after restoring power to the valve operator. Insure that power to the valve operator is properly removed after closing the valve.

5. Verifying that the following valves are in their normal position with power to the valve operator motors separated by dual contactors from the motor control center:

Normal

Valve Number	Valve Function	Position
a. CS-MOV-533	LPSI Pump Header Isolation	Open
b. CS-MOV-535	LPSI Pump Header Isolation	Opsa
c. SI-MOV-518	LPSI Pump Header Suction Isolation	Open
d. SI-MOV-48	HPSI and LPSI Minimum Recirculation Line	Open
e. SI-MOV-49	HPSI and LPSI Minimum Recirculation Line	Open
f. SI-MOV-515	Hot Leg Injection Isolation	Closed
g. SI-MOV-514	hot Leg Injection Isolation	Closed
h. SI-MOV-516	V.C. Sump Isolation	Closed
1. SI-MOV-517	V.C. Sump Isolation	Closed
j. SI-MOV-46	HPSI Flow Control	Open

- Verifying that each ECCS safety injection subsystem is aligned to receive electrical power from an OPERABLE emergency bus.
- Verifying that each pair of ECCS recirculation subsystem redundant valves is aligned to receive electrical power from separate OPERABLE busses.
- Verifying that each pair of ECCS long-term hot leg injection subsystem redundant valves is aligned to receive electrical power from separate OPERABLE busses.

YANKEE-ROWE

DESIGN FEATURES

CONTROL ROD

5.3.2 The reactor core shall contain 24 control rods. The control rods shall contain a nominal 90 inches of absorber material. The nominal values of this absorber material shall be 80 percent silver, 15 percent indium and 5 percent cadmium. The silver-indium-cadmium control rods shall be clad with Inconel.

5.4 MAIN COOLANT SYSTEM

DESIGN PRESSURE AND TEMPERATURE

5.4.1 The Main Coolant System is designed and shall be maintained:

- a. In accordance with the code requirements specified in ASME Boiler and Pressure Vessel Code, Section VIII, including all addenda through 1956, and the ANSI (formerly ASI) Standards, Power Piping Code, B31.1, 1955 Edition, and B16.5, 1957 Edition, with allowance for normal degradation pursuant to the applicable Surveillance Requirements,
- b. For a ressure of 2500 psig, and
- c. For a temperature of 650°F, except for the pressurizer which is 668°F.

VOLUME

5.4.2 The total water and steam volume of the Main Coolant System is 2900 cubic feet.

5.5 METEOROLOGICAL TOWER LOCATION

5.1.1 The meteorological tower shall be located as shown in Figure 5.1-1.

5.6 FUEL STORAGE

CRITICALITY

5.6.1 The new and spent fuel storage racks are designed and shall be maintained with a center-to-center distance between fuel assemblies placed in the storage racks to ensure a k_{eff} equivalent to -0.95 with the new or spent fuel storage areas flooded with unborated water. The k_{eff} of -0.95 includes a conservative allowance of 3% k/k for uncertainties.

YANKEE-ROWE

0 5