

3/4.7 PLANT SYSTEMS

3/4.7.1 TURBINE CYCLE

SAFETY VALVES

3.7.1.1

LIMITING CONDITION FOR OPERATION

settings as specified in Table 3.7-3.

APPLICABILITY: MODES 1, 2, and 3.

ACTION:

---- NOTE ----- NOTE ----- Separate Condition entry is allowed for each MSSV.

All main steam line Code safety valves (MSSVs) shall be OPERABLE with lift

- a. With one or more steam generators (SGs) with one MSSV inoperable, and the Moderator Temperature Coefficient (MTC) zero or negative at all power levels, within 4 hours reduce THERMAL POWER to less than or equal to 59% RATED THERMAL POWER (RTP); otherwise, be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours.
- b. With one or more SGs with two or more MSSVs inoperable, within 4 hours reduce THERMAL POWER to less than or equal to the maximum allowable % RTP specified in Table 3.7-1 for the number of OPERABLE MSSVs, and reduce the Power Range Neutron Flux High setpoint to less than or equal to the maximum allowable % RTP specified in Table 3.7-1 for number of OPERABLE MSSVs within the next 32 hours*; otherwise, be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours.
- c. With one or more SGs with one MSSV inoperable and the MTC positive at any power level, within 4 hours reduce THERMAL POWER to less than or equal to the maximum allowable % RTP specified in Table 3.7-1 for the number of OPERABLE MSSVs and reduce the Power Range Neutron Flux High setpoint to less than or equal to the maximum allowable % RTP specified in Table 3.7-1 for number of OPERABLE MSSVs within the next 32 hours*; otherwise, be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours.

^{*} Applicable only in MODE 1.

3/4.7 PLANT SYSTEMS

3/4.7.1 TURBINE CYCLE

SAFETY VALVES

LIMITING CONDITION FOR OPERATION

ACTION: (Continued)

d. With one or more SGs with four or more MSSVs inoperable, be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours.

SURVEILLANCE REQUIREMENTS

4.7.1.1 No additional Surveillance Requirements other than those required by Specification 4.0.5. The provisions of Specification 4.0.4 are not applicable for entry into MODE 3.

TABLE 3.7-1 OPERABLE MSSVS VERSUS MAXIMUM ALLOWABLE POWER

NUMBER OF OPERABLE MSSVs PER STEAM GENERATOR	MAXIMUM ALLOWABLE POWER (PERCENT OF RATED THERMAL POWER)	
4	59	ı
3	41	
2	24	- 1

TABLE 3.7-2

DELETED

TABLE 3.7-3 STEAM LINE SAFETY VALVES PER LOOP

VALVE NUMBER	LIFT SETTING ^a (±3%) ^b	ORIFICE SIZE
LOOP 1		
RV22A	1185 psig	16.0 square inches
RV23A	1195 psig	16.0 square inches
RV24A	1205 psig	16.0 square inches
RV25A	1215 psig	16.0 square inches
RV26A	1225 psig	16.0 square inches
LOOP 2		
RV22B	1185 psig	16.0 square inches
RV23B	1195 psig	16.0 square inches
RV24B	1205 psig	16.0 square inches
RV25B	1215 psig	16.0 square inches
RV26B	1225 psig	16.0 square inches
LOOP 3		
RV22C	1185 psig	16.0 square inches
RV23C	1195 psig	16.0 square inches
RV24C	1205 psig	16.0 square inches
RV25C	1215 psig	16.0 square inches
RV26C	1225 psig	16.0 square inches
LOOP 4		
RV22D	1185 psig	16.0 square inches
RV23D	1195 psig	16.0 square inches
RV24D	1205 psig	16.0 square inches
RV25D	1215 psig	16.0 square inches
RV26D	1225 psig	16.0 square inches

The lift setting pressure shall correspond to ambient conditions of the valve at nominal operating temperature and pressure.

b The lift setting shall be within \pm 1% following main steam line Code safety valve testing.

TECHNICAL REQUIREMENTS

3/4.7 PLANT SYSTEMS

3/4.7.12 FIRE SUPPRESSION SYSTEMS

SPRAY AND/OR SPRINKLER SYSTEMS

TECHNICAL REQUIREMENT

- 3.7.12.2 The following Deluge Spray and/or Sprinkler Systems shall be FUNCTIONAL:
 - a. Emergency Generator A Enclosure Sprinkler**
 - b. Emergency Generator B Enclosure Sprinkler**
 - c. RSST A Deluge
 - d. RSST B Deluge
 - e. Fuel Building Filter Bank A Deluge**
 - f. Fuel Building Filter Bank B Deluge**
 - g. Auxiliary Building Filter Bank A Deluge**
 - h. Auxiliary Building Filter Bank B Deluge **
 - i. Supplementary Leak Collection Filter Bank A Deluge**
 - j. Supplementary Leak Collection Filter Bank B Deluge**
 - k. Containment Cable Penetration Area Sprinkler * **
 - I. Charging Pump Water Curtain Sprinkler System**
 - m. ESF Building Water Curtain Sprinkler System**
 - n. NSST A Deluge
 - NSST B Deluge
 - p. Main Transformer A Deluge
 - q. Main Transformer B Deluge
 - r. Main Transformer C Deluge
- * The Containment Cable Penetration Area Sprinkler System is not required to be FUNCTIONAL during the performance of Type A containment leakage rate tests.
- ** These systems protect areas containing safety-related equipment.

APPLICABILITY:

Whenever equipment protected by the Deluge Spray/Sprinkler System is required to be FUNCTIONAL.

MILLSTONE - UNIT 3

TRM 3/4 7-21

LBDCR 07-MP3-018

TECHNICAL REQUIREMENTS

3/4.7 PLANT SYSTEMS

3/4.7.12 FIRE SUPPRESSION SYSTEMS

SPRAY AND/OR SPRINKLER SYSTEMS

TECHNICAL REQUIREMENTS (Continued)

ACTION:

a. With one or more of the above required Deluge Spray and/or Sprinkler Systems nonfunctional, within 1 hour establish a continuous fire watch for those areas in which both trains of redundant fire safe shutdown systems or components could be damaged⁽²⁾; for other areas, establish an hourly fire watch patrol⁽¹⁾.

Notes:

- For Completion Times stated in TECHNICAL REQUIREMENT ACTIONS
 which require periodic performance on a "once per . ." basis, the specified
 Frequency is met, after the initial performance, if the requirement is
 performed within 1.25 times the interval specified in the Completion Time, as
 measured from the previous performance or as measured from the time a
 specified condition of the Frequency is met.
- 2. For the Containment Cable Penetration Sprinkler System, if operating conditions prevent establishing a continuous fire watch, install remote cameras within 24 hours and monitor the cable penetration area continuously. Additionally, monitor area temperatures and smoke detectors. (See Bases item 8.)

TECHNICAL SURVEILLANCE REQUIREMENTS

- 4.7.12.2 Each of the above required Deluge Spray and/or Sprinkler Systems shall be demonstrated FUNCTIONAL:
 - At least once per 31 days by verifying each valve (manual, poweroperated, or automatic) <u>outside</u> containment in the flow path is in its correct position.
 - b. At least once per 12 months by cycling each testable valve in the flow path through at least one complete cycle of full travel.
 - c. At least once per 24 months by verifying each valve (manual, power-operated, or automatic) <u>inside</u> containment in the flow path is in its correct position.
 - d. At least once per 18 months:

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