

May 16, 1984

2-9-95

### 3/4.5 EMERGENCY CORE COOLING SYSTEMS (ECCS)

#### SAFETY INJECTION TANKS (SITs)

#### LIMITING CONDITION FOR OPERATION

3.5.1 Each reactor coolant system safety injection tank shall be OPERABLE with:

- a. The isolation valve open and the power to the valve operator removed,
- b. Between 1080 and 1190 cubic feet of borated water,
- c. A minimum boron concentration of 1720 PPM, and
- d. A nitrogen cover-pressure of between 200 and 250 psig.

APPLICABILITY: MODES 1, 2 and 3.⑥

#### ACTION:

- INSERT (A)
- a. With one safety injection tank inoperable, except as a result of a closed isolation valve, restore the inoperable tank to OPERABLE status within one hour or be in HOT SHUTDOWN within the next 8 hours.
  - b. With one safety injection tank inoperable due to the isolation valve being closed, either immediately open the isolation valve or be in HOT STANDBY within one hour and be in HOT SHUTDOWN within the next 8 hours.

#### SURVEILLANCE REQUIREMENTS

4.5.1 Each safety injection tank shall be demonstrated OPERABLE:

- a. At least once per 12 hours by:
  1. Verifying the water level and nitrogen cover-pressure in the tanks, and
  2. Verifying that each safety injection tank isolation valve is open.

\* With pressurizer pressure  $\geq$  1750 psia.

INSERT (B)

December 8, 1978

2-9-95

EMERGENCY CORE COOLING SYSTEMS

SAFETY INJECTION TANKS (Continued)

SURVEILLANCE REQUIREMENTS (Continued)

- b. ~~At least once per 31 days and at each solution volume increase of  $\geq 1\%$  of tank volume by verifying the boron concentration of the safety injection tank solution.~~
- e. ~~At least once per 31 days by verifying that the closing coil in the valve breaker cubicle is removed.~~
- f. ~~Verifying at least once per 18 months that the <sup>SIT</sup>safety injection tank isolation valves open automatically before the Reactor Coolant System pressure exceeds 1750 psia and on a safety injection signal.~~

①

~~2-9-95~~  
2-16-93

INSERT (B)

- a. Verify each SIT isolation valve is fully open at least once per 12 hours.<sup>(1)</sup>
- b. Verify borated water volume in each SIT is  $\geq 1080$  cubic feet ~~{54% narrow range}~~ and  $\leq 1190$  cubic feet ~~{59% narrow range}~~ at least once per 12 hours.<sup>(2)</sup>
- c. Verify nitrogen cover-pressure in each SIT is  $\geq 200$  psig and  $\leq 250$  psig at least once per 12 hours.<sup>(3)</sup>
- d. Verify boron concentration in each SIT is  $\geq 1720$  ppm ~~{and  $\leq 2000$  ppm}~~ at least once per ~~31 days~~, and once within 6 hours after each solution volume increase of  $\geq 1\%$  of tank volume<sup>(4)</sup> that is not the result of addition from the refueling water storage tank.

6 months

Docket No. 50-336  
B15354

Attachment 4

Millstone Nuclear Power Station, Unit No. 2  
Proposed Technical Specifications Revision  
Surveillance of Safety Injection Tanks

Retyped Pages

September 1995

## EMERGENCY CORE COOLING SYSTEMS

### SAFETY INJECTION TANKS (Continued)

#### SURVEILLANCE REQUIREMENTS

---

##### 4.5.1 Each SIT shall be demonstrated OPERABLE:

- a. Verify each SIT isolation valve is fully open at least once per 12 hours.<sup>(1)</sup>
- b. Verify borated water volume in each SIT is  $\geq 1080$  cubic feet and  $\leq 1190$  cubic feet at least once per 12 hours.<sup>(2)</sup>
- c. Verify nitrogen cover-pressure in each SIT is  $\geq 200$  psig and  $\leq 250$  psig at least once per 12 hours.<sup>(3)</sup>
- d. Verify boron concentration in each SIT is  $\geq 1720$  ppm at least once per 6 months, and once within 6 hours after each solution volume increase of  $\geq 1\%$  of tank volume<sup>(4)</sup> that is not the result of addition from the refueling water storage tank.
- e. Verify that the closing coil in the valve breaker cubicle is removed at least once per 31 days.
- f. Verify that the SIT isolation valves open automatically before the Reactor Coolant System pressure exceeds 1750 psia and on a safety injection signal at least once per 18 months.

---

(1) If one SIT is inoperable, except as a result of boron concentration not within limits or inoperable level or pressure instrumentation, surveillance is not applicable to the affected SIT.

(2) If one SIT is inoperable due solely to inoperable water level instrumentation, surveillance is not applicable to the affected SIT.

(3) If one SIT is inoperable due solely to inoperable pressure instrumentation, surveillance is not applicable to affected SIT.

(4) Only required to be performed for affected SIT.