ATTACHMENT 2

LIMERICK GENERATING STATION UNITS 1 AND 2

Docket Nos. 50-352 50-353

License Nos. NPF-39 NPF-85

REVISED PROPOSED TECHNICAL SPECIFICATIONS CHANGES

No. 90-20-0, Revision 1

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3/4.1.5 STANDBY LIQUID CONTROL SYSTEM

LIMITING CONDITION FOR OPERATION

3.1.5 The standby liquid control system consisting of a minimum of two pumps and corresponding flow paths, shall be OPERABLE.

APPLICABILITY: OPERATION CONDITIONS 1, 2, and 5*

ACTION:

- a. In OPERATIONAL CONDITION 1 or 2:
 - With only one pump and corresponding explosive valve OPERABLE, restore one inoperable pump and corresponding explosive valve to OPERABLE status within 7 days or be in at least HOT SHUTDOWN within the next 12 hours.
 - 2. With standby liquid control system other ise inoperable, restore the system to OPERABLE status within 8 hours or be in at least HOT SHUTDOWN within the next 12 hours.
- b. In OPERATION CONDITION 5*:
 - 1. With only one pump and corresponding explosive valve OPERABLE, restore one inoperable pump and corresponding explosive valve to OPERABLE status within 30 days or insert all insertable control rods within the next hour.
 - With the standby liquid control system otherwise inoperable, insert all insertable control rods within 1 hour.

SURVEILLANCE REQUIREMENTS

4.1.5 The standby liquid control system shall be demonstrated OPERABLE:

- a. At least onle per 24 hours by verifying that:
 - The temperature of the sodium pentaborate solution is within the limits of Figure 3.1.5-1.
 - The available volume of sodium pentaborate solution is at least 4537 gallons.
 - The temperature of the pump suction piping is greater than or equal to 70°F.

*With any control rod withdrawn. Not applicable to control rods removed per Specification 3.9.10.1 or 3.9.10.2.

LIMERICK - UNIT 1

SURVEILLANCE REQUIREMENTS (Continued)

- b. At least once per 31 days by:
 - 1. Verifying the continuity of the explosive charge.
 - 2. Determining by chemical analysis and calculation* that the available weight of sodium pentaborate is greater than or equal to 5389 lbs; the concentration of sodium pentaborate in solution is less than or equal to 13.8% and within the limits of Figure 3.1.5-1 and; the following equation is satisfied:

$$\frac{C}{13\% \text{ wt.}} \qquad \begin{array}{c} x & Q & \geq 1 \\ \hline 86 \text{ gpm} \end{array}$$

where

- C = Sodium pentaborate solution (% by weight)
 Q = Two pump flowrate, as datermined per
 surveillance requirement 4.1.5.c.
- Verifying that each valve (manual, power-operated, or automatic) in the flow path that is not locked, sealed, or otherwise secured in position, is in its correct position.
- c. Demonstrating that, when tested pursuant to Specification 4.0.5, the minimum flow requirement of 41.2 gpm per pump at a pressure of greater than or equal to 1190 psig is met.
- d. At least once per 18 months during shutdown by:
 - 1. Initiating at least one of the standby liquid control system loops, including an explosive valve, and verifying that a flow path from the pumps to the reactor pressure vessel is available by pumping demineralized water into the reactor vessel. The replacement charge for the explosive valve shall be from the same manufactured batch as the one fired or from another batch which has been certified by having one of the batch successfully fired. All injection loops shall be tested in 3 operating cycles.
 - Verify all heat-traced piping between storage tank and pump suction is unblocked.**

*This test shall also be performed anytime water or boron is added to the solution or when the solution temperature drops below 70°F, within 24 hours after water or boron addition or solution temperature is restored.

**This test shall also be performed whenever suction piping temperature drops below 70°F, within 24 hours after solution temperature is restored.

LIMERICK - UNIT 1

3/4.1.5 STANDBY LIQUID CONTROL SYSTEM

LIMITING CONDITION FOR OPERATION

3.1.5 The standby liquid control system consisting of a minimum of two pumps and corresponding flow paths, shall be OPERABLE.

APPLICABILITY: OPERATION CONDITIONS 1, 2, and 5*

ACTION:

- a. In OPERATIONAL CONDITION 1 or 2:
 - With only one pump and corresponding explosive valve OPERABLE, restore one inoperable pump and corresponding explosive valve to OPERABLE status within 7 days or be in at least HOT SHUTDOWN within the next 12 hours.
 - With standby liquid control system otherwise inoperable, restore the system to OPERABLE status within 8 hours or be in at least HOT SHUTDOWN within the next 12 hours.
- b. IN OPERATION CONDITION 5*:
 - With only one pump and corresponding explosive valve OPERABLE, restore one inoperable pump and corresponding explosive valve to OPERABLE status within 30 days or insert all insertable control rods within the next hour.
 - With the standby liquid control system otherwise inoperable, insert all insertable control rods within 1 hour.

SURVEILLANCE QUIREMENTS

4.1.5 The standb control system shall be demonstrated OPERABLE:

- a. At least once per 24 hours by verifying that:
 - 1. The temperature of the sodium pentaborate solution is within the limits of Figure 3.1.5-1.
 - The available volume of sodium pentaborate solution is at least 4537 gallons.
 - The temperature of the pump suction piping is greater than or equal to 70°F.

^{*}With any control rod withdrawn. Not applicable to control rods removed per Specification 3.9.10.1 or 3.9.10.2.

SURVEILLANCE REQUIREMENTS (Continued)

- b. At least once per 31 days by:
 - 1. Verifying the continuity of the explosive charge.
 - 2. Determining by chemical analysis and calculation* that the available weight of sodium pentaborate is greater than or equal to 5389 lbs; the concentration of sodium pentaborate in solution is less than or equal to 13.8% and within the limits of Figure 3.1.5-1 and; the following equation is satisfied:



- C = Sodium pentaborate solution (% by weis'.)
 Q = Two pump flowrate, as determined per surveillance
 requirement 4.1.5.c.
- Verifying that each valve (manual, power-operated, or automatic) in the flow path that is not locked, sealed, or otherwise secured in position, is in its correct position.
- c. Demonstrating that, when tested pursuant to Specification 4.0.5, the minimum flow requirement of 41.2 gpm per pump at a pressure of greater than or equal to 1190 psig is met.
- d. At least once per 18 months during shutdown by:
 - 1. Initiating at least one of the standby liquid control system loops, including an explosive valve, and verifying that a flow path from the pumps to the reactor pressure vessel is available by pumping demineralized water into the reactor vessel. The replacement charge for the explosive valve shall be from the same manufactured batch as the one fired or from another batch which has been certified by having one of the batch successfully fired. All injection loops shall be tested in 3 operating cycles.
 - Verify all heat-treated piping between storage tank and pump suction is unblocked.**

LIMERICK - UNIT 2

^{*}This test shall also be performed anytime water or boron is added to the solution or when the solution temperature drops below 70°F, within 24 hours after water or boron addition or solution temperature is restored.

^{**}This test shall also be performed whenever suction piping temperature drop. Delow 70°F, within 24 hours after solution temperature is restored.