

ENCLOSURE 1 TO NLS-86-416

PROPOSED TECHNICAL SPECIFICATION PAGES

BRUNSWICK-1

Standby Liquid Control System Modifications

(86TSB20)

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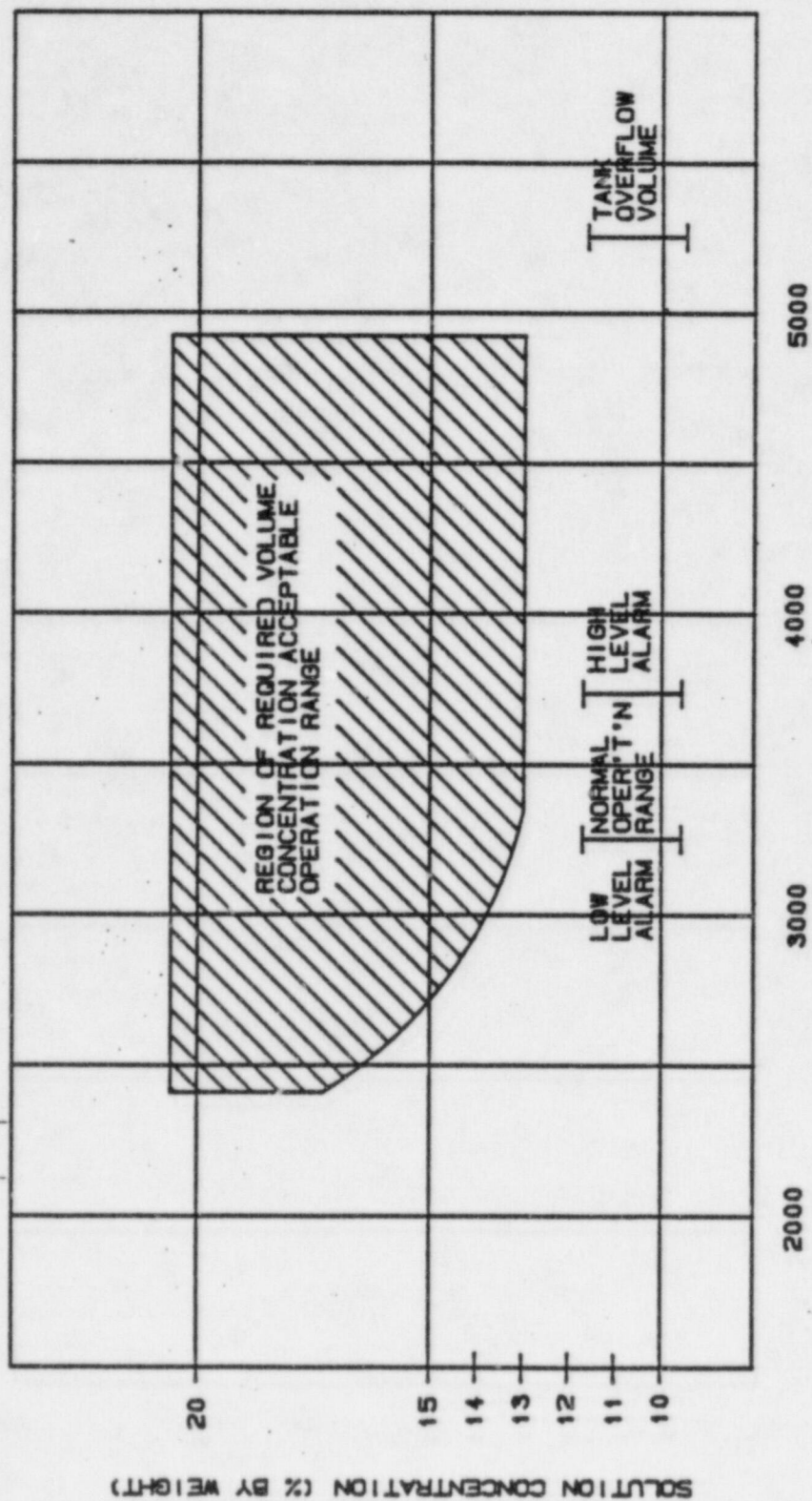
SUMMARY LIST OF REVISIONS

<u>PAGE NO.</u>	<u>DESCRIPTION OF CHANGE</u>
3/4 1 - 19	Revised Surveillance Requirement 4.1.5.c.2 to indicate that the minimum flow requirement of 41.2 gpm is a per pump requirement. Revised the pump relief valve setpoint in Surveillance Requirement 4.1.5.c.3.
3/4 1 - 20	Revised Figure 3.1.5-1 to indicate that the minimum allowable sodium pentaborate concentration is 13-weight percent.

REACTIVITY CONTROL SYSTEMSSURVEILLANCE REQUIREMENTS

4.1.5 The standby liquid control system shall be demonstrated OPERABLE:

- a. At least once per 24 hours by verifying that:
 - 1. The volume and temperature of the sodium pentaborate solution are within the limits of Figures 3.1.5-1 and 3.1.5-2, and
 - 2. The heat tracing circuit is OPERABLE.
- b. At least once per 31 days by:
 - 1. Starting each pump and recirculating demineralized water to the test tank,
 - 2. Verifying the continuity of the explosive charge, and
 - 3. Determining the concentration of boron in solution by chemical analysis. This test shall also be performed anytime water or boron is added to the solution or when the solution temperature drops below the limit established in Figure 3.1.5-2.
- c. At least once per 18 months during shutdown by:
 - 1. Initiating 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 that batch successfully fired. Both injection test loops shall be tested in 36 months.
 - 2. Demonstrating that the minimum flow requirement of 41.2 gpm per pump at a pressure of greater than or equal to 1190 psig is met.
 - 3. Demonstrating that the pump relief valve setpoint is 1450 ± 50 psig.



NET VOLUME OF SOLUTION IN TANK (GALS.)

SODIUM PENTABORATE SOLUTION VOLUME
CONCENTRATION REQUIREMENTS

FIGURE 3.1.5-1