

May 17, 1995

Mr. J. V. Parrish (Mail Drop 1023)
Vice President Nuclear Operations
3000 George Washington Way
Washington Public Power Supply System
P.O. Box 968
Richland, Washington 99352-0968

SUBJECT: ISSUANCE OF AMENDMENT FOR THE WASHINGTON PUBLIC POWER SUPPLY
SYSTEM NUCLEAR PROJECT NO. 2 (TAC NO. M84767)

Dear Mr. Parrish:

The Commission has issued the enclosed Amendment No. 138 to the Facility Operating License No. NPF-21 for WPPSS Nuclear Project No. 2. The amendment consists of changes to the Technical Specifications (TS) in response to your application dated September 2, 1992.

The amendment revises Figure 3.1.5-2, "Sodium Pentaborate Tank, Volume Vs. Concentration Requirements," to reflect the actual low-volume-alarm and low-limit values for the standby liquid control tank.

A copy of the related Safety Evaluation is also enclosed. The Notice of Issuance will be included in the Commission's next biweekly Federal Register notice.

Sincerely,

Original Signed By

James W. Clifford, Senior Project Manager
Project Directorate IV-2
Division of Reactor Projects III/IV
Office of Nuclear Reactor Regulation

Docket No. 50-397

Enclosures: 1. Amendment No. 138 to NPF-21
2. Safety Evaluation

cc w/encls: See next page

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DOCUMENT NAME: WNP84767.AMD

Office	PDIV-2/LA	PDIV-2/PM	OSB PDIV-2/PM	SRXB	OGC	PDIV-2/PM
Name	EPeyton	DSkay:pk	JClifford	RJones	R Brahma	JCLIFFORD
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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

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Docket No. 50-397

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Mr. J. V. Parrish

- 2 -

May 17, 1995

cc:

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

DOCKET NO. 50-397

NUCLEAR PROJECT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 138
License No. NPF-21

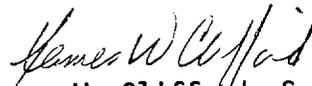
1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by the Washington Public Power Supply System (licensee) dated September 2, 1992, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and paragraph 2.C.(2) of Facility Operating License No. NPF-21 is hereby amended to read as follows:

(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 138 and the Environmental Protection Plan contained in Appendix B, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. This amendment is effective immediately and will be implemented within 30 days of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



James W. Clifford, Senior Project Manager
Project Directorate IV-2
Division of Reactor Projects III/IV
Office of Nuclear Reactor Regulation

Attachment: Changes to the Technical
Specifications

Date of Issuance: May 17, 1995

ATTACHMENT TO LICENSE AMENDMENT

AMENDMENT NO. 138 TO FACILITY OPERATING LICENSE NO. NPF-21

DOCKET NO. 50-397

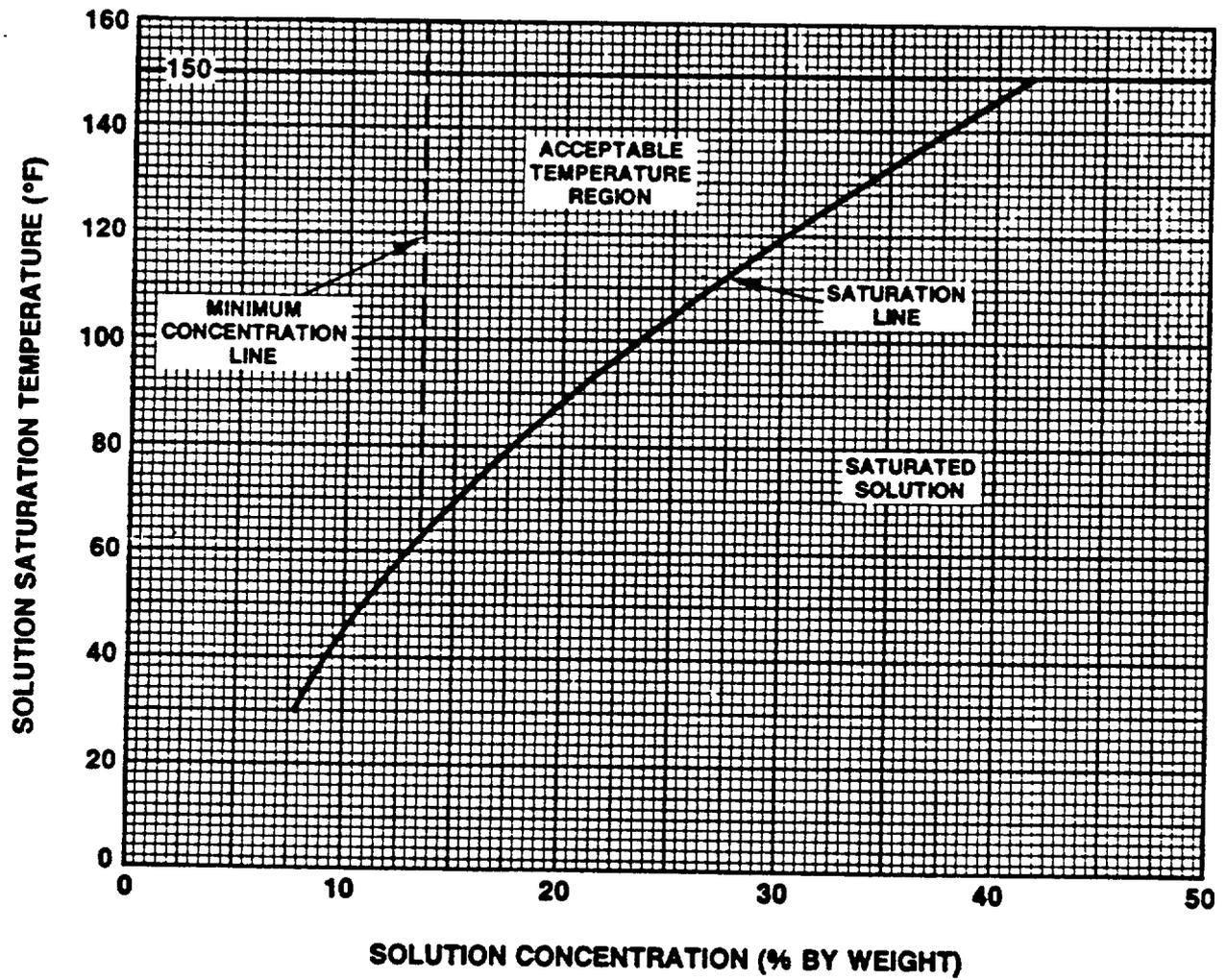
Replace the following page of the Appendix A Technical Specifications with the enclosed page. The revised page is identified by amendment number and contains vertical lines indicating the areas of change. The corresponding overleaf page is also provided to maintain document completeness.

REMOVE

3/4 1-22

INSERT

3/4 1-22

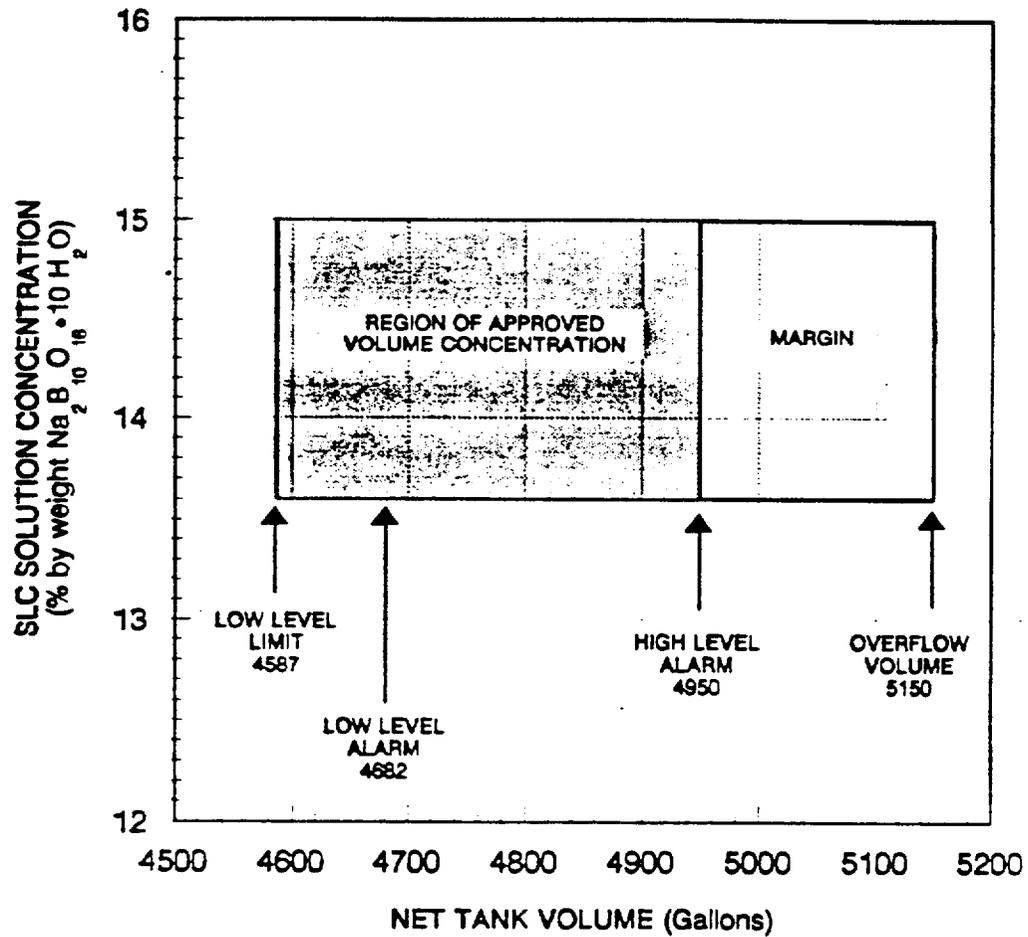


**SODIUM PENTABORATE
SOLUTION SATURATION TEMPERATURE**

FIGURE 3.1.5-1

Figure 3.1.5-2

SODIUM PENTABORATE TANK, VOLUME
VS CONCENTRATION REQUIREMENTS





UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 138 TO FACILITY OPERATING LICENSE NO. NPF-21

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

NUCLEAR PROJECT NO. 2

DOCKET NO. 50-397

1.0 INTRODUCTION

In its letter dated September 2, 1992, the Washington Public Power Supply System (WPPSS or the licensee) proposed that Appendix A of Facility Operating License NPF-21 be amended to revise the WPPSS Nuclear Project No. 2 Technical Specifications (TS). The proposed change would revise Figure 3.1.5-2, "Sodium Pentaborate Tank, Volume Vs. Concentration Requirements," to reflect the actual low-volume-alarm and low-limit values for the standby liquid control (SLC) tank.

2.0 EVALUATION

The SLC system is designed to provide shutdown capability without control rod movement. The SLC system consists of the sodium pentaborate solution storage tank, two pumps, and piping and valves to transfer borated water from the tank to the reactor pressure vessel. Figure 3.1.5-2 provides the limits of solution and volume necessary to ensure that the SLC system is capable of fulfilling the system design function. The current figure indicates a low-level alarm at 4587 gallons, which is also the low limit for the tank volume. The licensee has determined that an alarm at the low limit is not a prudent design, as receiving an alarm at that level would not allow for corrective actions before violating the TS. The level at which the alarm is actually set for is 4682 gallons. Therefore, the licensee proposes to revise the figure to indicate a low-level alarm at 4682 gallons.

Section 50.62 of Title 10 of the Code of Federal Regulations specifies that for anticipated transients without scram mitigation, the SLC system shall have the capability in flowrate, B¹⁰ enrichment, and boron concentration such that, when accounting for reactor pressure vessel volume, an equivalent injection rate of 86 gallons per minute of 13 weight sodium pentaborate decahydrate solution at the natural B¹⁰ enrichment can be attained. Operation within the limits of Figure 3.1.5-2 ensures compliance with these requirements. The revised low-level alarm provides adequate margin to take corrective action before the low-level limit of 4587 gallons is exceeded.

This change does not affect the operation of the SLC system, but simply revises the TS to be consistent with the current operating practice and design basis. This change is conservative in that the low-level alarm point has been increased. Therefore, the change is acceptable.

3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Washington State official was notified of the proposed issuance of the amendment. The State official had no comments.

4.0 ENVIRONMENTAL CONSIDERATION

The amendment changes a requirement with respect to the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The NRC staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that the amendment involves no significant hazards consideration, and there has been no public comment on such finding (59 FR 60388). Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

5.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: D. Skay

Date: May 17, 1995