

August 23, 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. M88270)

Dear Mr. Parrish:

The Commission has issued the enclosed Amendment No. 140 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 the required signal-to-noise ratio for the source range monitors, as recommended by General Electric.

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. 140 to NPF-21
2. Safety Evaluation

cc w/encls: See next page

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DOCUMENT NAME: WNP88270.AMD

OFC	LA:PDIV-2	PDIV-2	PDIV-2	HICB	OGC
NAME	EPeyton	KThomas:pk	JClifford	JWermiel	R Bachman
DATE	7/6/95	7/24/95	8/2/95	7/24/95	7/27/95

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cc w/encls:

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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. 140
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. 140 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 as of its date 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: August 23, 1995

ATTACHMENT TO LICENSE AMENDMENT

AMENDMENT NO. 140 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.

REMOVE

3/4 3-76

INSERT

3/4 3-76

INSTRUMENTATION

SOURCE RANGE MONITORS

LIMITING CONDITION FOR OPERATION

3.3.7.6 At least the following source range monitor channels shall be OPERABLE:

- a. In OPERATIONAL CONDITION 2*, three.
- b. In OPERATIONAL CONDITONS 3 and 4, two.

APPLICABILITY: OPERATIONAL CONDITIONS 2*, 3, and 4.

ACTION:

- a. In OPERATIONAL CONDITION 2* with one of the above required source range monitor channels inoperable, restore at least 3 source range monitor channels to OPERABLE status within 4 hours or be in at least HOT SHUTDOWN within the next 12 hours.
- b. In OPERATIONAL CONDITION 3 or 4 with one or more of the above required source range monitor channels inoperable, verify all insertable control rods to be inserted in the core and lock the reactor mode switch in the Shutdown position within 1 hour.

SURVEILLANCE REQUIREMENTS

4.3.7.6 Each of the above required source range monitor channels shall be demonstrated OPERABLE by:

- a. Performance of a:
 1. CHANNEL CHECK at least once per:
 - a) 12 hours in CONDITION 2*, and
 - b) 24 hours in CONDITION 3 or 4.
 2. CHANNEL CALIBRATION** at least once per 18 months.
- b. Performance of a CHANNEL FUNCTIONAL TEST:
 1. Within 24 hours prior to moving the reactor mode switch from the Shutdown position, if not performed within the previous 7 days, and
 2. At least once per 31 days.
- c. Verifying, prior to withdrawal of control rods, that the SRM count rate is at least 0.7 cps# with the detector fully inserted.

* With IRM's on range 2 or below.

**Neutron detectors may be excluded from CHANNEL CALIBRATION.

Provided signal-to-noise ratio is ≥ 20 . Otherwise, ≥ 3 cps, provided signal-to-noise ratio ≥ 2 .



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 140 TO FACILITY OPERATING LICENSE NO. NPF-21
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NUCLEAR PROJECT NO. 2
DOCKET NO. 50-397

1.0 INTRODUCTION

By letter dated September 2, 1992, Washington Public Power Supply System (WPPSS) submitted a request for changes to the Technical Specifications (TS) for Nuclear Project No. 2 (WNP-2). The proposed changes would make the surveillance criteria for the source range monitors (SRMs) consistent with an April 10, 1992, TS amendment.

2.0 EVALUATION

By letter dated January 21, 1992 (G02-92-016), WPPSS submitted a request to revise TS 3/4.9.2, "Refueling Operations - Instrumentation," and the associated Bases of the TS regarding the requirements of the SRMs during core offloads. The request included a revision to the SRM count rates and associated signal-to-noise ratios to more conservative values, as recommended by General Electric (GE) in Service Information Letter (SIL) No. 478. By letter dated April 10, 1992, Amendment No. 102 to TS 3/4.9.2 was issued, approving the request and reflecting the recommendations in the SIL.

By letter dated September 2, 1992 (G02-92-208), WPPSS submitted a request to revise the WNP-2 TS to make the SRM surveillance criteria in TS 3/4.3.7.6, "Instrumentation - Source Range Monitors," consistent with the changes made to TS 3/4.9.2 by Amendment No. 102 (and therefore, consistent with SIL No. 478). As in the January 21, 1992 request, the request reflects the recommendations in the SIL, which states that a signal-to-noise ratio of at least 20:1 is required to maintain the design basis level of uncertainty with a 0.7 count per second minimum count rate. This higher signal-to-noise ratio is required so that the SRM can effectively distinguish between actual counts and noise at lower count rates. The SIL also noted that a minimum SRM count rate of three counts per second was acceptable with a signal-to-noise ratio of 2:1. With this ratio, GE stated that there is a 95-percent confidence level that the indicated signal is correct. As found in the evaluation for Amendment No. 102, the proposed changes to the SRM count rate and associated signal-to-noise ratios are acceptable.

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3.0 STATE CONCLUSION

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

4.0 ENVIRONMENTAL CONSIDERATION

The amendment changes surveillance requirements. 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 (60 FR 37101). 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: K. Thomas

Date: August 23, 1995