

June 2, 1987

Docket No. 50-397

Mr. G. C. Sorensen, Manager
Regulatory Programs
Washington Public Power Supply System
P.O. Box 968
3000 George Washington Way
Richland, Washington 99352

Dear Mr. Sorensen:

Subject: Issuance of Amendment No. 44 to Facility Operating
License NPF-21 - WPPSS Nuclear Project No. 2 (TAC 63935)

The U.S. Nuclear Regulatory Commission has issued the enclosed Amendment No. 44 to Facility Operating License NPF-21 to the Washington Public Power Supply System for WPPSS Nuclear Project No. 2, located in Benton County near Richland, Washington. This amendment is in response to your letters dated November 18, 1986 and January 7, February 25, and April 15, 1987.

This amendment revises Table 3.6.3-1, Primary Containment Isolation Valves, to include a new valve, TIP-V-15, reflecting reclassification of the Traversing Incore Probe (TIP) system nitrogen purge line and modification of the TIP system nitrogen purge line to meet GDC 54 and 56 of Appendix A to 10 CFR 50. You should make a corresponding change to Table 6.2-16 of the FSAR.

A copy of the related safety evaluation supporting Amendment No. 44 to Facility Operating License No. NPF-21 is enclosed.

Sincerely,

Original signed by

Robert B. Samworth, Senior Project Manager
Project Directorate V
Division of Reactor Projects - III/IV/V
& Special Projects

Enclosures:

1. Amendment No. 44 to Facility
Operating License No. NPF-21
2. Safety Evaluation

cc w/enclosures:

See next page

DRSP/PDV
RSamworth:cd
6/1/87

DRSP/PDV
JLee
6/1/87

OGC-Bethesda
See Previous Conc.
6/19/87

DRSP/PDV
GWKington
6/2/87

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public will not be endangered by operation in the proposed manner, and
(2) such activities will be conducted in compliance with the
Commission's regulations and the issuance of this amendment will not be
inimical to the common defense and security or to the health and safety
of the public.

Principal Contributor: S. Kim, NRR

Dated:

RS

DRSP/PD5

RSamworth

5/15/87

JL
DRSP/PD5

JLee

5/ /87

APH

DRSP/D:PD5

GWKnighton

5/ /87

Mr. G. C. Sorensen, Manager
Washington Public Power Supply System

WPPSS Nuclear Project No. 2
(WNP-2)

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

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

DOCKET NO. 50-397

WPPSS NUCLEAR PROJECT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 44
License No. NPF-21

1. The Nuclear Regulatory Commission (the Commission or the NRC) has found that:
 - A. The application for amendment filed by the Washington Public Power Supply System (the Supply System, also the licensee), dated November 18, 1986 as clarified by letters dated January 7, February 25, and April 15, 1987 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 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 set forth in 10 CFR Chapter I;
 - 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.

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2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the enclosure to this license amendment and paragraph 2.C.(2) of the 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. 44, 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 the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION


George W. Knighton, Director
Project Directorate V
Division of Reactor Projects - III/IV/V
& Special Projects

Enclosure: Changes to the Technical Specifications

Date of Issuance: June 2, 1987

June 2, 1987

ENCLOSURE TO LICENSE AMENDMENT NO. 44

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 6-22

INSERT

3/4 6-22

TABLE 3.6.3-1 (Continued)
PRIMARY CONTAINMENT ISOLATION VALVES

<u>VALVE FUNCTION AND NUMBER</u>	<u>VALVE GROUP(a)</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>
a. <u>Automatic Isolation Valves (Continued)</u>		
Equipment Drain (Radioactive)	4	15
EDR-V-19 EDR-V-20		
Floor Drain (Radioactive)	4	15
FDR-V-3 FDR-V-4		
Fuel Pool Cooling/Suppression Pool Cleanup	4	35
FPC-V-149 FPC-V-153(f) FPC-V-154(f) FPC-V-156		
Reactor Recirculation Hydraulic Control(e)	4	15
HY-V-17A,B HY-V-18A,B HY-V-19A,B HY-V-20A,B HY-V-33A,B HY-V-34A,B HY-V-35A,B HY-V-36A,B		
Traversing Incore Probe	4	5
TIP-V-1,2,3,4,5 TIP-V-15		



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING AMENDMENT NO. 44 TO FACILITY OPERATING LICENSE NO. NPF-21
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
WPPSS NUCLEAR PROJECT NO. 2
DOCKET NO. 50-397

1.0 INTRODUCTION

By letters dated November 18, 1986 and January 7, February 25, and April 15, 1987, the Washington Public Power Supply System proposed certain changes to Section 3.6.3.1 of the Technical Specifications for WNP-2. The request deals with a configuration change to the Traversing Incore Probe (TIP) system nitrogen purge line. The proposed change adds an automatic solenoid isolation valve (TIP-V-6) to the line outside containment so as to provide the system with a reliable containment isolation capability in case of an accident. The existing check valve (TIP-V-6) will be moved inside containment.

2.0 EVALUATION

The TIP purge system supplies nitrogen to the TIP index mechanisms to minimize corrosion. There are a total of five index mechanisms serving approximately 40 LPRMs. Operation of the drive mechanism causes the fission chamber to be inserted or retracted from the reactor core within individual TIP guide tubes. Each TIP unit uses an indexing device to route the TIP detector to the desired LPRM assembly. Each of the LPRM assemblies in turn houses a TIP guide tube. The output signal from a TIP channel may be used to plot an axial flux profile. The purge line serves all five indexing devices.

In accordance with the regulations, specifically GDC 54 and 56 of Appendix A to 10 CFR Part 50, a piping system penetrating a primary reactor containment is required to be provided with containment isolation capabilities having redundancy, reliability, and performance capabilities. Also, the system should be able to be leak tested. The licensee misclassified the TIP nitrogen purge line as an instrument line, not subject to the cited criteria. Only one check valve was provided, on the line outside of containment.

As an interim measure the licensee is relying on an alternate arrangement for index mechanism nitrogen purging (Licensee Event Report Number 85-42, July 11, 1985) from a nitrogen supply within the drywell. Containment isolation is provided by use of a blank flange on the penetrating line. This would satisfy GDC 56.

The licensee has proposed permanently correcting the deficiency by providing two valves on the nitrogen purge line. The proposed amendment adds the new valve to the list of primary containment valves in Table 3.6.3-1 of the Technical Specifications.

The original check valve, identified as TIP-V-6, originally located outside of containment, is to be moved inside. In its place outside containment a one-inch solenoid automatic globe valve, identified as TIP-V-15, is to be installed, thus providing the required isolation redundancy. The trip for TIP-V-15 responds to high drywell pressure or reactor vessel low-low water level signal as reflected in Table 6.2-16 of the FSAR. It fails in the closed position and will close automatically upon loss of power. The system is also provided with a test connection.

The licensee's February 25, 1987 letter stated that, in accordance with Appendix J, the two valves will be Type-C-tested with air, and penetration 27F will be Type-B tested. The staff, therefore, concludes that the proposed changes to the TIP system nitrogen purge line as described above conforms with GDC 54 and 56, and the system will perform its containment isolation function satisfactorily in case of an accident.

3.0 ENVIRONMENTAL CONSIDERATION

This amendment involves a change in the installation and use of a facility component located within the restricted area as defined in 10 CFR Part 20. The staff has determined that this 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 this amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, this 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 this amendment.

4.0 CONTACT WITH STATE OFFICIAL

The Commission made a proposed determination that the amendment involves no significant hazards consideration which was published in the Federal Register (52 FR 7702) on March 12, 1987, and consulted with the state of Washington. No public comments were received, and the state of Washington did not have any comments.

5.0 CONCLUSION

We have 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, and
(2) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: S. Kim, NRR

Dated: June 2, 1987

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