

Docket No. 50-397

JUN 12 1985

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. 10 to Facility Operating License  
NPF-21, WPPSS Nuclear Project No. 2

The U.S. Nuclear Regulatory Commission has issued the enclosed Amendment No. 10 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 letter dated March 14, 1985.

This action amends the WNP-2 Technical Specifications, Reactor Coolant System Surveillance Requirements, 4.4.3.2.2 to provide relief, for one time only, of leak testing three of the eighteen Reactor Coolant System Pressure Isolation Valves.

A copy of the related safety evaluation supporting Amendment No. 10 to Facility Operating License No. NPF-21 is enclosed.

Sincerely,

Original signed by:

Walter R. Butler, Chief  
Licensing Branch No. 2  
Division of Licensing

Enclosures:

1. Amendment No. 10 to Facility Operating License NPF-21
2. Safety Evaluation

cc w/enclosures:  
See next page

*BRAD*  
LB#2/DL/PM  
JBradfute:lb  
05/29/85

LB#2/DL/LA  
EK/ston  
05/24/85

OELD  
WPaton  
05/17/85  
6/6/85

*WDPaton WB*  
LB#2/DL/BC  
WButler  
06/6/85

MEB/ENG/BCD  
FCherny  
06/4/85

*CSB*  
JKudrnick  
06/5/85

*AD*  
TMovak  
06/11/85

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P PDR

3. This amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by:

Walter R. Butler, Chief  
Licensing Branch No. 2  
Division of Licensing

Enclosure:  
Changes to the Technical  
Specifications

Date of Issuance: JUN 12 1985

*JBR*  
LB#2/DL  
JBradfute  
06/29/85

*EH*  
LB#2/DL  
EHinton  
06/24/85

*WB*  
LB#2/DL  
WButler  
06/16/85

*W.D. Patton*  
OELD  
WPatton  
06/16/85

*TM*  
AD/D/DL  
TMNovak  
06/11/85



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

JUN 12 1985

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A copy of the related safety evaluation supporting Amendment No. 10 to Facility Operating License No. NPF-21 is enclosed.

Sincerely,

A handwritten signature in cursive script that reads "Walter R. Butler".

Walter R. Butler, Chief  
Licensing Branch No. 2  
Division of Licensing

Enclosures:

1. Amendment No. 10 to Facility Operating License NPF-21
2. Safety Evaluation

cc w/enclosures:  
See next page

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

WPPSS Nuclear Project No. 2  
(WNP-2)

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Richland, Washington 99352

Issuance of Amendment No. 10 to Facility Operating License No. NPF-21  
WPPSS Nuclear Project No. 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

License No. NPF-21

Amendment No. 10

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 March 14, 1985, 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 as amended, 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 regulation set forth in 10 CFR Chapter I;
  - D. The issuance of this amendment will not be inimical to the common defense and security or 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, Facility Operating License No. NPF-21 is amended to revise the Technical Specifications as indicated in the attachment to this amendment and paragraph 2.C.(2) of the Facility Operating License 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. 10, 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.

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3. This amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Walter R. Butler, Chief  
Licensing Branch No. 2  
Division of Licensing

Enclosure:  
Changes to the Technical  
Specifications

Date of Issuance: **JUN 12 1965**

ATTACHMENT TO LICENSE AMENDMENT NO. 10  
FACILITY OPERATING LICENSE NO. NPF-21  
DOCKET NO. 50-397

Replace the following page of the Appendix "A" Technical Specifications with enclosed pages. The revised pages are identified by Amendment number and contain vertical lines indicating the area of change.

REMOVE

3/4 4-11

INSERT

3/4 4-11

TABLE 3.4.3.2-1

REACTOR COOLANT SYSTEM PRESSURE ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>SYSTEM</u>
HPCS-V-4	HPCS
HPCS-V-5	HPCS
LPCS-V-5	LPCS
LPCS-V-6	LPCS
*RCIC-V-66	RCIC
*RCIC-V-13	RCIC
RHR-V-8	RHR
RHR-V-9/209	RHR
*RHR-V-23	RHR
RHR-V-41A, B, C	RHR
RHR-V-42A, B, C	RHR
RHR-V-50A/123A, 50B/123B	RHR
RHR-V-53A, B	RHR

TABLE 3.4.3.2-2

REACTOR COOLANT SYSTEM INTERFACE VALVES  
LEAKAGE PRESSURE MONITORS

<u>INSTRUMENT NUMBER</u>	<u>FUNCTION</u>	<u>ALARM SETPOINT (psig)</u>
HPCS-PIS-3 (E22-N003)	HPCS Pump Suction Pressure High	≤ 80
LPCS-PIS-5 (E21-N005)	LPCS Pump Discharge Pressure High	≤ 442
RCIC-PS-21 (E51-N021)	RCIC Pump Suction Pressure High	≤ 91
RHR-PIS-22A, B, C (E12-N022)	RHR Pump Discharge Pressure to RPV High	≤ 475
RHR-PS-18 (E12-N018)	RHR Pump Shutdown Cooling Suction Pressure High	≤ 168

\*The 18 month leakage test for these valves is deferred until the first refueling outage.



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

SAFETY EVALUATION

AMENDMENT NO. 10 TO NPF-21

WPPSS NUCLEAR PROJECT NO.2

DOCKET NO. 50-397

Introduction

By letter dated March 14, 1985, the licensee requested an amendment to the Technical Specifications of the WNP-2 license NPF-21.

Evaluation

The proposed amendment would provide relief, for one time only, from the WNP-2 Technical Specifications Surveillance Requirement 4.4.3.2.2, of leak testing three of the eighteen Reactor Coolant System Pressure Isolation Valves. These valves are designated RCIC-V-66, RCIC-V-13 and RHR-V-23 and are identified in Table 3.4.3.2-1 of the Technical Specifications.

Leak testing of these three valves will require either removal of the containment head or personnel access into the more hazardous areas of the containment. The licensee proposes to delay the leak testing of these three valves until the first scheduled refueling outage. The valves will be readily accessible at that time because the shield plug and containment head must be removed for refueling.

In the Pacific Northwest, surplus power from hydroelectric generation results from snow-melt runoff in the spring. To maximize regional resources, the Bonneville Power Administration has directed that the Supply System is to be on a 12 month scheduled outage cycle that will coincide with this regional surplus power. The Power Ascension Test Program conducted between licensing (December 20, 1983) and commercial operation (December 13, 1984) required only limited power generation and concomitant minimal fuel burn up during that period. As a result, refueling is unwarranted at this time but a maintenance outage is scheduled for spring 1985. The first refueling outage is planned for spring 1986.

Thus, the spring 1985 maintenance outage will not require containment head removal. Since head removal will not be accomplished, the ability of personnel to perform these valve leak tests is impaired. Access to these valves under the required test condition (950 + 10 psig) exposes personnel to extreme hazards in the upper elevations of the containment and in confined spaces with high pressure test equipment.

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The system design relies on these valves for protection of low pressure piping. Extreme pressurization of this low pressure piping can occur upon failure of these valves which is unlikely. Leakage testing provides an early indication of valve degradation. The system design is such that any leakage due to degradation that may develop can be readily detected by existing instrumentation because:

- °High pressure interface valve leakage pressure monitors (Quality Class I) are available with an alarm in the Control Room. These monitors are under required surveillance by the Technical Specifications.
- °Position indication on each interface valve is available in the Control Room.
- °Leakage would be diverted to the suppression pool by relief valves provided for over-pressure protection and narrow range suppression pool level indication is available that is sufficiently sensitive to detect significant leakage past both valves in either of these Reactor Coolant System high pressure/low pressure interfaces.

It should be noted that the operability of these valves is tested at cold shutdown per ASME requirements. To date, no evidence of leakage has been apparent and the valves have not required maintenance since they were last leak tested. Had the valves required maintenance, leak testing would have been accomplished at that time as required by the Technical Specifications.

The licensee has determined that these changes have little safety significance and that the proposed amendment will not alter any of the accident analyses. The staff has reviewed these determinations and the associated changes and conclude that they meet the requirements of the Standard Review Plan, NUREG-0800 and are, therefore, acceptable.

#### Environmental Consideration

This amendment involves a change to the requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The staff has determined that the amendment involves no significant change in the types or significant increase in the amounts 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 Section 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.

#### 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.

Dated: **JUN 12 1985**