



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

NOV 1 1985

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. 17 TO FACILITY OPERATING LICENSE  
NPF-21, WPPSS NUCLEAR PROJECT NO. 2

The U. S. Nuclear Regulatory Commission has issued the enclosed Amendment No. 17 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 September 26, 1985. The amendment was authorized on an emergency basis by telephone on September 26, 1985 and confirmed by our letter also dated September 26, 1985.

This action amends the WNP-2 Technical Specifications changing the Surveillance Requirement 4.6.1.8.2 to permit greater leakage through the drywell and suppression chamber purge supply and exhaust isolation valves provided that the valves are secured closed and the total leakage from all valves and penetrations subject to Type B and C testing is less than the maximum specified by the Limiting Condition for Operation, Section 3.6.1.2.b.

A copy of the related safety evaluation supporting Amendment No. 17 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. 17 to Facility  
Operating License NPF-21
2. Safety Evaluation

cc w/enclosures:  
See next page

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NOV 1 1985

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A copy of the related safety evaluation supporting Amendment No. 17 to Facility Operating License No. NPF-21 is enclosed.

Sincerely,

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

Enclosures:

1. Amendment No. 17 to Facility Operating License NPF-21
2. Safety Evaluation

cc w/enclosures:  
See next page

*BRAD*  
DL:LB#2  
JBradfute/dh  
10/21/85

DL:LB#2  
Elynton  
10/21/85

OELD  
AHodgdon  
10/21/85

DL:LB#2  
WButler  
10/29/85

AD/L/DL  
TMNovak  
10/31/85

*WPPSS*  
*W But*  
*WB*

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

WPPSS Nuclear Project No. 2  
(WNP-2)

cc:

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Washington Public Power Supply System  
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Richland, Washington 99352

Issuance of Amendment No. 17 to Facility Operating License No. NPF-21  
WPPSS Nuclear Project No. 2

DISTRIBUTION

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TBarnhart (4)

MVirgilio



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. 17

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 September 26, 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 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 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 Facility Operating License NPF-21 is hereby amended to read as follows:

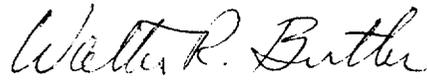
(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 17, 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 September 26, 1985.

FOR THE NUCLEAR REGULATORY COMMISSION



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

Enclosure:  
Changes to Technical Specifications

Date of Issuance: **NOV 1 1985**

3. This amendment is effective as of September 26, 1985.

FOR THE NUCLEAR REGULATORY COMMISSION

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

Enclosure:  
Changes to Technical Specifications

Date of Issuance:

\*Previously concurred:

DL:LB#2

DL:LB#2

OELD

*WB*  
DL:LB#2

*(S) WB*  
AD/L/DL

*RS*  
DS1/RS

\*EHylton

\*JBradfute:dh

\*AHodgdon

WButler

TNovak

RHouston

10/21/85

10/17/85

10/25/85

10/29/85

10/31/85

10/30/85

ATTACHMENT TO LICENSE AMENDMENT NO. 17  
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 a vertical line indicating the areas of change.

REMOVE

3/4 6-11

INSERT

3/4 6-11

## CONTAINMENT SYSTEMS

### DRYWELL AND SUPPRESSION CHAMBER PURGE SYSTEM

#### LIMITING CONDITION FOR OPERATION

---

3.6.1.8 The drywell and suppression chamber purge system may be in operation with the drywell and/or suppression chamber purge supply and exhaust butterfly isolation valves open for inerting, deinerting, or pressure control, provided that each butterfly valve is blocked so as not to open more than 70°. PURGING through the Standby Gas Treatment System shall be restricted to less than or equal to 90 hours per 365 days.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

#### ACTION:

- a. With a drywell and/or suppression chamber purge supply and/or exhaust butterfly isolation valve open for other than inerting, deinerting, or pressure control, or not blocked to less than or equal to 70° open, close the butterfly valve(s) within 1 hour or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
- b. With a drywell and suppression chamber purge supply and/or exhaust isolation valve(s) with resilient material seals having a measured leakage rate exceeding the limit of Surveillance Requirement 4.6.1.8.2, restore the inoperable valve(s) to OPERABLE status within 24 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

#### SURVEILLANCE REQUIREMENTS

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4.6.1.8.1 When being opened, the drywell and suppression chamber purge supply and exhaust butterfly isolation valves shall be verified to be blocked so as to open to less than or equal to 70° open, unless so verified within the previous 31 days.

4.6.1.8.2 At least once per 6 months, on a STAGGERED TEST BASIS, each 24- and 30-inch drywell and suppression chamber purge supply and exhaust isolation valve with resilient material shall be demonstrated OPERABLE by verifying that the measured leakage is:

- a. Less than or equal to  $0.05 L_a$  per valve test or,
- b. Greater than 4.6.1.8.2.a. provided that: 1) the valves are secured closed and maintenance performed at the next plant cold shutdown to reduce the leakage to within 4.6.1.8.2.a; 2) the leakage added to the previously determined total for all valves and penetrations subject to Type B and C tests per LCO 3/4.6.1.2 shall be less than  $0.6 L_a$ ,
- c. In the event the valves are to be operated, and 4.6.1.8.2.a. has been exceeded, a leakage test must be performed within 24 hours following operation, to ensure compliance with  $0.6 L_a$ .



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

SAFETY EVALUATION

AMENDMENT NO. 17 TO NPF-21

WPPSS NUCLEAR PROJECT NO. 2

DOCKET NO. 50-397

INTRODUCTION

In its letter dated September 26, 1985, the Washington Public Power Supply System proposed certain changes to Appendix A of License No. NPF-21, the Technical Specifications for WNP-2. These changes relate to the allowable leakage rate through the drywell and suppression chamber purge supply and exhaust isolation valves.

EVALUATION

LCO Action Statement 3.6.1.8.b requires the plant to initiate shutdown within 24 hours when the drywell and suppression chamber purge supply and/or exhaust isolation valves with resilient seals have a measured leakage rate exceeding 0.05 La per valve.

The associated surveillance requirements include testing these valves every six months to detect significant degradation of the resilient material seals and to allow for repair before gross leakage develops. This testing frequency gives confidence that should a LOCA occur, leakage through these valves when combined with the sum of leakages of all Type B and C valve tests would not exceed the cumulative total of 0.6 La.

The licensee proposed to delete the Technical Specification provisions that requires initiation of a shutdown if the leakage from a valve with a resilient material seal exceeds 0.05 La provided that this valve is secured in the closed position and the total leakage of all Type B and C valves, including the affected valve, is less than 0.6 La. The licensee further agreed that should a need exist to use a valve with resilient material seal whose leakage exceeds 0.05 La, a leakage test will be performed within 24 hours after such use to assure that the 0.6 La acceptance criteria is met.

The staff has completed its review of the licensee's submittal and concludes that the total containment system integrity requirement and that compliance with the requirement of Appendix J are met in the proposed Technical Specification. We note further that the frequent testing to determine the condition of the resilient material seal is maintained. Based on the foregoing consideration, the staff finds this Technical Specification change to be acceptable.

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### FINAL NO SIGNIFICANT HAZARDS CONSIDERATION DETERMINATION

A proposed amendment to an operating license for a facility involves no significant hazards consideration if operation of the facility in accordance with the proposed amendment would not (1) involve a significant increase in the probability or consequences of an accident previously evaluated; (2) create the possibility of a new or different kind of accident from an accident previously evaluated; or (3) involve a significant reduction in a margin of safety.

We having evaluated the licensee's request for the proposed Technical Specifications for compliance with the above cited standards and conclude that the change will not:

- 1) Involve a significant increase in the probability or consequences of an accident previously evaluated because the basis for the surveillance requirement is maintained.
- 2) Create the possibility of a new or different kind of accident than previously evaluated, because no new leakage paths are being created. In fact, a more conservative approach is being proposed in that the valves are to be secured in the closed position when multiple valve tests exceed 0.05 La, or tested following each actuation to ensure compliance with the cumulative limit of .6 La
- 3) involve a significant reduction in a margin of safety because no change is being sought in Appendix J requirements pertaining to total containment integrity with respect to Type B and C testing.

Based on the above considerations the staff concludes that the proposed amendment meets the Commission's standards in 10 CFR 50.92(c). Therefore, the staff has made a final determination that the application involves no significant hazards consideration.

### BASIS FOR EMERGENCY SITUATION

Even though the allowable leakage limit of 0.60 La had not been exceeded, WNP-2 would have been required to shut down unless this request for amendment had been authorized on an emergency basis. The Supply System had no previous indication of excessive leakage from any previously performed tests conducted per LCO 3.6.1.8 and, therefore, no reason to believe that an individual valve would exceed the Technical Specification requirement of 0.05 La. The Supply System, therefore, could not reasonably have submitted its request for waiver and this request for amendment earlier. Thus the emergency basis was necessary to avoid shutdown under the Limiting Condition for Operation of Section 3.6.1.8.b.

### 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 determined that this amendment involves no significant hazards consideration. 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: NOV 1 1985