

MAY 28 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. 9 TO FACILITY OPERATING LICENSE  
NPF-21, WPPSS NUCLEAR PROJECT NO. 2

The U. S. Nuclear Regulatory Commission has issued the enclosed Amendment No. 9 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 December 20, 1984, as supplemented by your letter of January 31, 1985.

This action amends the WNP-2 Technical Specifications, Primary Containment Air Locks, Limiting Conditions for Operation, 3.6.1.3 and the associated Surveillance Requirements, 4.6.1.3 to permit repair and/or maintenance of the interlock mechanism for the primary containment air locks during plant operation.

A copy of the related safety evaluation supporting Amendment No. 9 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. 9 to Facility Operating License NPF-21
- 2. Safety Evaluation

cc w/enclosures:  
See next page

*BRADFUTE*  
DL:LB#2  
JBradfute  
05/13/85

*[Signature]*  
DL:LB#2  
Elyson  
05/13/85

*[Signature]*  
OELD  
W. Paton  
05/13/85

*WB*  
DL:LB#2  
WButler  
05/14/85

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ADT/BL  
TMNovak  
05/14/85

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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 Technical Specifications

Date of Issuance: **MAY 28 1985**

DL:LB#2  
EHyton  
05/15/85

*BRADUTE*  
DL:LB#2  
JBradfute  
05/13/85

OELD  
*W. Paton*  
05/17/85

*WB*  
DL:LB#2  
WButler  
05/14/85

*ADAL*  
ADAL/DL  
TNovak  
05/17/85



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

MAY 28 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:

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A copy of the related safety evaluation supporting Amendment No. 9 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. 9 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



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. 9

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 December 20, 1984 and supplemented on January 31, 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 attachments to this amendment and paragraph 2.C.(2) of Facility Operating License is hereby amended to read as follows:

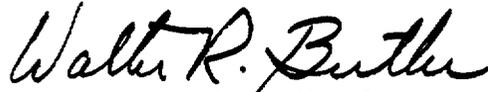
(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 9, 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 Technical Specifications

Date of Issuance: **MAY 28 1985**

ATTACHMENT TO LICENSE AMENDMENT NO. 9  
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 6-5  
3/4 6-6

INSERT

3/4 6-5  
3/4 6-6

## CONTAINMENT SYSTEMS

### PRIMARY CONTAINMENT AIR LOCKS

#### LIMITING CONDITION FOR OPERATION

---

3.6.1.3 Each primary containment air lock shall be OPERABLE with:

- a. The interlock operable and engaged such that both doors cannot be opened simultaneously, and
- b. Both doors closed except when the air lock is being used for normal transit entry and exit through the containment, and
- c. An overall air lock leakage rate of less than or equal to  $0.05 L_a$  at  $P_a$ , 34.7 psig.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2\* and 3.

#### ACTION:

- a. With the interlock mechanism inoperable:
  1. Maintain at least one operable air lock door closed and either return the interlock to service within 24 hours or lock at least one operable air lock door closed.
  2. Operation may then continue until the interlock is returned to service provided that one of the air lock doors is verified locked closed prior to each closing of the shield door and at least once per shift while the shield door is open.
  3. Personnel passage through the air lock is permitted provided an individual is dedicated to assure that one operable air lock door remains locked at all times so that both air lock doors cannot be opened simultaneously.
  4. The provisions of Specification 3.0.4 are not applicable.
- b. With one primary containment air lock door inoperable:
  1. Maintain at least the OPERABLE air lock door closed and either restore the inoperable air lock door to OPERABLE status within 24 hours or lock the OPERABLE air lock door closed.
  2. Operation may then continue until performance of the next required overall air lock leakage test provided that the OPERABLE air lock door is verified to be locked closed immediately prior to each closing of the shield door and at least once per shift while the shield door is open.

\*See Special Test Exception 3.10.1.

## CONTAINMENT SYSTEMS

### LIMITING CONDITION FOR OPERATION (Continued)

#### ACTION: (Continued)

3. Otherwise, be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
  4. The provisions of Specification 3.0.4 are not applicable.
- c. With the primary containment air lock inoperable, except as a result of an inoperable air lock door or an inoperable interlock mechanism, maintain at least one air lock door closed; restore the inoperable air lock 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

- 4.6.1.3 Each primary containment air lock shall be demonstrated OPERABLE:
- a. By verifying interlock operation (i.e., that only one door in each air lock can be opened at a time)
    1. Prior to using the air lock in Operating Conditions 1, 2 and 3 but not required more than once per six months,
    2. Following maintenance that could effect the interlock mechanism.
  - b. Within 72 hours following each closing, except when the air lock is being used for multiple entries, then at least once per 72 hours, by verifying seal leakage rate less than or equal to  $0.025 L_a$  when the gap between the door seals is pressurized to 10 psig.
  - c. By conducting an overall air lock leakage test at  $P_a$ , 34.7 psig and by verifying that the overall air lock leakage rate is within its limit:
    1. At least once per 6 months<sup>#</sup>, and
    2. Prior to establishing PRIMARY CONTAINMENT INTEGRITY when maintenance had been performed on the air lock that could affect the air lock sealing capability\*.

<sup>#</sup>The provisions of Specification 4.0.2 are not applicable.

\*Exception to Appendix J of 10 CFR 50.



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

SAFETY EVALUATION

AMENDMENT NO. 9 TO NPF-21

WPPSS NUCLEAR PROJECT NO. 2

DOCKET NO. 50-397

INTRODUCTION

By letter dated December 20, 1984 as supplemented by letter dated January 31, 1985, the licensee requested an amendment to the Technical Specifications Sections 3.6.1.3 and 4.6.1.3 of the WNP-2 license NPF-21.

EVALUATION

Currently the WNP-2 Technical Specification requires at least one containment air lock door to be closed at all times during plant operation and locked closed within 24 hours if the other door becomes inoperable. The Specification is silent with respect to the interlock mechanism that assures that only one air lock door can be open at any one time.

The proposed amendment would revise the WNP-2 Technical Specifications to permit repair and/or maintenance of the interlock mechanism for the primary containment air locks during plant operations. The amendment is intended to assure containment integrity in the event the containment air lock itself is operable--but the airlock door interlock mechanism is inoperable--by substituting administrative controls to ensure that at least one door is closed at all times while the mechanical interlock mechanism is undergoing repair or maintenance. The purpose of this amendment is to amplify and clarify the Technical Specifications in this regard.

Based on staff review of the proposed changes, we find that there exists reasonable assurance that containment integrity will not be violated whenever the interlock mechanism or one air lock door becomes inoperable provided proposed administrative controls are instigated. The proposed administrative controls include:

1. assignment of a dedicated individual to assure that both air lock doors cannot be opened simultaneously whenever the air lock is used and the interlock mechanism is inoperable; and
2. locking closed one of the air lock doors that remains operable if the interlock mechanism or air lock door cannot be returned to service within 24 hours; and
3. verifying that an operable air lock door is locked closed prior to each closing of the shield door and at least once per shift while the shield door is open.

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It should be noted that, outside the containment, the air lock is completely enclosed in a shield cubicle that has a door (shield door) with two locks on it. Opening of the shield door is alarmed in both the control room and the central alarm station.

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 this determination and the proposed changes to the Technical Specifications and conclude that they meet the provisions 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: **MAY 28 1985**

Issuance of Amendment No. 9 to Facility Operating License No. NPF-21  
WPPSS Nuclear Project No. 2

DISTRIBUTION

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