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

June 10, 1988

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. 60 TO FACILITY OPERATING LICENSE NO. NPF-21 - WPPSS NUCLEAR PROJECT NO. 2 (TAC NO. 66889)

The U.S. Nuclear Regulatory Commission has issued the enclosed amendment 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 23, 1987 (G02-87-293) as supplemented by letter dated January 15, 1988 (G02-88-018).

This amendment revises License Condition 2.c.(16), Atachment 2, Item 3.(b) to extend to the fourth refueling outage the deadline for implementing the requirements of Regulatory Guide 1.97, Revision 2, for Flux Monitoring.

Because of our concern that the installation of a qualified monitor be completed at the earliest possible date, we expect you to continue your efforts to ensure that your contractor (GAMMA-METRICS) diligently pursues qualification. In order to ensure that progress is made in this regard, periodic reports are necessary. Accordingly, you are hereby required to report to us on July 29, 1988 of actions WPPSS has taken toward that objective in the period between November 1987 and June 30, 1988, and to report to us quarterly thereafter until the installation of fully qualified neutron flux monitoring instrumentation is complete. Pursuant to Section 182a of the Atomic Energy Act, as amended, these reports are required to be submitted in writing and signed under oath or affirmation.

8806230086 880610
PDR ADOCK 05000397
P PDR

A copy of the related safety evaluation supporting this amendment is enclosed. The enclosed Notice of Issuance will be forwarded to the Office of the Federal Register for publication. Also enclosed for your information is a copy of an Environmental Assessment related to this action which has been published in the Federal Register.

Sincerely,

Robert B. Samworth

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

Enclosures:
1. Amendment No. 60 to Facility Operating License No. NPF-21
2. Safety Evaluation
3. Notice
4. Environmental Assessment

cc w/enclosures:
See next page

A copy of the related safety evaluation supporting this amendment is enclosed. The enclosed Notice of Issuance will be forwarded to the Office of the Federal Register for publication. Also enclosed for your information is a copy of an Environmental Assessment related to this action which has been published in the Federal Register.

Sincerely,

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

Enclosures:
1. Amendment No. 60 to Facility Operating License No. NPF-21
2. Safety Evaluation
3. Notice
4. Environmental Assessment

cc w/enclosures:
See next page

DISTRIBUTION

| | |
|---|---|
| Docket File | Wanda Jones |
| NRC LPDRs | EButcher |
| GMHolahan | ACRS (10) |
| RSamworth | GPA/PA |
| JBradfute | ARM/LFMB |
| DHagan | REGION V (4) |
| EJordan | PDV Plant File |
| JPartlow | TBarnhart (4) |
| JLee | |

*See previous concurrence

| OFC | :DRSP/PDV/LA | :DRSP/PDV/PM | :*OGC | :DRSP/D:PDV | : | : | : |
|---|---|---|---|---|---|---|---|
| NAME | :JLee | :RSamworth:cw | :RBachmann | :GWKnighton | : | : | : |
| DATE | :06/10/88 | :06/10/88 | :06/7/88 | :06/10/88 | : | : | : |

OFFICIAL RECORD COPY

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

WPPSS Nuclear Project No. 2
(WNP-2)

cc:
Nicholas S. Reynolds, Esq.
Bishop, Cook, Purcell
& Reynolds
1400 L Street NW
Washington, D.C. 20005-3502

Regional Administrator, Region V
U.S. Nuclear Regulatory Commission
1450 Maria Lane, Suite 210
Walnut Creek, California 94596

Mr. G. E. Doupe, Esquire
Washington Public Power Supply System
P. O. Box 968
3000 George Washington Way
Richland, Washington 99532

Chairman
Benton County Board of Commissioners
Prosser, Washington 99350

Mr. Curtis Eschels, Chairman
Energy Facility Site Evaluation Council
Mail Stop PY-11
Olympia, Washington 98504

Mr. P. L. Powell, Licensing Manager
Washington Public Power Supply System
P. O. Box 968, MD 956B
Richland, Washington 99352

Mr. A. Lee Oxsen
Assistant Managing Director for Operations
Washington Public Power Supply System
P. O. Box 968, MD 1023
Richland, WA 99352

Mr. R. B. Glasscock, Director
Licensing and Assurance
Washington Public Power Supply System
P. O. Box 968, MD 280
Richland, Washington 99352

Mr. C. M. Powers
WNP-2 Plant Manager
Washington Public Power Supply System
P. O. Box MD 927M
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

Amendment No. 60
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 December 23, 1987 as supplemented by letter dated January 15, 1988 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.

8806230094 880610
PDR ADOCK 05000397
P PDR

8806230094
LPP

2. Accordingly, Paragraph 3.(b) of Attachment 2 to Facility Operating License No. NPF-21 (as referenced in License Condition 2.C(16)) is hereby amended to read as follow:

   (b) The licensee shall implement (installation or upgrade) requirements of Regulatory Guide 1.97, Revision 2, for flux monitoring prior to startup following the fourth refueling outage.

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

FOR THE NUCLEAR REGULATORY COMMISSION

Charles M. Trammell

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

Date of Issuance: June 10, 1988

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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 60 TO FACILITY OPERATING LICENSE NO. NPF-21

WASHINGTON PUBLIC POWER SUPPLEY SUPPLY SYSTEM

WPPSS NUCLEAR PROJECT NO. 2

DOCKET NO. 50-397

## 1.0 INTRODUCTION

By letter dated December 23, 1987, Washington Public Power Supply System (WPPSS) submitted a request to extend the implementation date for neutron flux monitoring instrumentation, contained in Operating License Condition 2.C.(16). Operating License Condition 2.C.(16) requires that the licensee shall implement the recommendations of Regulatory Guide (R.G.) 1.97, Revision 2, for neutron flux monitoring prior to startup following the third refueling outage. R.G. 1.97 recommends Category 1 neutron flux monitoring instrumentation to monitor reactivity control. The licensee requested that the deadline for implementation be extended to the end of the fourth refueling outage.

## 2.0 EVALUATION

The licensee stated that it has installed a neutron flux monitoring system, but has been unsuccessful in qualifying the equipment environmentally. The licensee detailed the technical problems encountered with the environmental qualification attempt. The licensee's neutron flux monitoring instrumentation may require design modifications to become fully qualified. These modifications and subsequent testing make it highly improbable that the equipment will be qualified in sufficient time to meet the present license condition.

The licensee has committed to implement a system that complies with the Category 1 criteria of R.G. 1.97. The licensee has made a good faith effort to install qualified neutron flux monitoring instrumentation. Category 1 neutron flux monitoring systems that meet all the Category 1 criteria of R.G. 1.97 have only recently become available to the industry. Because of the above, we find the licensee's request for an extension to be reasonable. We also find the existing neutron flux monitoring instrumentation is acceptable for interim use, because the existing instrumentation consists of four redundant safety-related channels. Additionally, there are unrelated systems in place to provide operators with sufficient data to assess reactor conditions (e.g., control rod position monitors, reactor vessel level and pressure monitors) in the unlikely event of an accident condition prior to replacement.

8806230099 880610
PDR ADOCK 05000397
P PDR

8806100099
2pp

The staff understands that the supplier of the neutron flux monitoring instrumentation (GAMMA-METRICS) that the licensee has installed expects to show the equipment to be fully qualified by the end of the fourth quarter of Fiscal Year 1988. It is the staff's position that the licensee shall provide the staff with quarterly updates on the progress of the neutron flux monitoring instrumentation environmental qualification effort.

Based on the above evaluation, the staff concludes that the existing neutron flux monitoring instrumentation is acceptable for interim use. It is the staff's position that the licensee shall install neutron flux monitoring instrumentation that fully conforms to the recommendations of R.G. 1.97, Revision 2, by startup following the fourth refueling outage. The quarterly updates of the neutron flux monitoring instrumentation environmental qualification effort will provide an opportunity for the staff to monitor the progress in obtaining the qualification.

## 3.0 ENVIRONMENTAL CONSIDERATION

Pursuant to 10 CFR 51.32, an environmental assessment has been published (53 FR 21743) in the Federal Register on June 9, 1988. Accordingly, the Commission has determined that the issuance of this amendment will not have a significant effect on the quality of the human environment.

## 4.0 CONTACT WITH STATE OFFICIAL

The State of Washington advised by letter dated February 25, 1988 that they did not have any comment.

## 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 (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: B. Marcus

Dated: June 10, 1988

UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

DOCKET NO. 50-307

NOTICE OF ISSUANCE OF AMENDMENT TO

FACILITY OPERATING LICENSE

The U.S. Nuclear Regulatory Commission (Commission) has issued Amendment No. 60 to Facility Operating License No. NPF-21, issued to Washington Public Power Supply System (the licensee), which revised the Technical Specifications for operation of the Nuclear Project No. 2, located in Benton County, Washington.

The amendment was effective as of the date of issuance.

The amendment modified the license to allow an additional year of operation without the neutron flux monitoring instrumentation fully meeting the environmental qualification requirements of Regulatory Guide 1.97.

The application for the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter 1, which are set forth in the license amendment.

Notice of Consideration of Issuance of Amendment and Opportunity for Hearing in connection with this action was published in the FEDERAL REGISTER on April 5, 1988 (53 FR 11154). No request for a hearing or petition for leave to intervene was filed following this notice.

The Commission has prepared an Environmental Assessment related to the action and has determined that an environmental impact statement will not be prepared and that issuance of this amendment will not have a significant

8806230102 880610
PDR ADOCK 05000397
P PDR

8806100102
2pp

effect on the quality of the human environment.

For further details with respect to the action see (1) the application for amendment dated December 23, 1987, as supplemented January 15, 1988, (2) Amendment No. 60 to License No. NPF-21, (3) the Commission's related Safety Evaluation and (4) the Commission's Environmental Assessment. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street N.W., Washington, D.C. 20555, and at the Richland City Library, Swift and Northgate Streets, Richland, Washington 99352. A copy of items (2), (3) and (4) may be obtained upon request addressed to the U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, attention: Director, Division of Reactor Projects III, IV, V and Special Projects.

Dated at Rockville, Maryland this 10th day of June, 1988.

FOR THE NUCLEAR REGULATORY COMMISSION

Robert B. Samworth

Robert B. Samworth, Senior Project Manager
Project Directorate V
Division of Reactor Projects - III,
IV, V and Special Projects
Office o Nuclear Reactor Regulation

UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

DOCKET NO. 50-397

ENVIRONMENTAL ASSESSMENT AND FINDING OF

NO SIGNIFICANT IMPACT

The U. S. Nuclear Regulatory Commission (the Commission) is considering issuance of an amendment to Facility Operating License No. NPF-21 issued to Washington Nuclear Project No. 2 (WNP-2), located in Benton County, Washington.

ENVIRONMENTAL ASSESSMENT

Identification of Proposed Action:

The proposed amendment would revise License Condition 2.c(16), Attachment 2, Item 3(b) to read "The licensee shall implement (installation or upgrade) requirements of R.G.1.97, Rev. 2 for flux monitoring prior to startup following the fourth refueling outage." The license currently requires this implementation following the third outage. The licensee has installed flux monitoring instrumentation. However, the installation is not yet environmentally qualified according to Regulatory Guide 1.97.

The proposed action is in accordance with the licensee's application for amendment dated December 23, 1987, as supplemented by letter dated January 15, 1988.

The Need for the Proposed Action:

The proposed change to the Technical Specifications will make it possible to continue operation of the facility while efforts continue to meet the requirements of R.G.1.97.

8806080349XA
SPP

Environmental Impacts of the Proposed Action:

The Commission has completed its evaluation of the proposed revision to the Operating License. The proposed revision will allow the facility to operate even though the flux monitoring installation does not yet meet the environmental qualification requirements of R. G. 1.97. The revisions have been found to be acceptable because this is a relatively new system and no licensee is meeting the qualification requirements applicable at WNP-2. Furthermore, the licensee has demonstrated a good faith effort toward achieving compliance with the license condition. The proposed changes do not increase the probability or consequences of an accident because there is existing qualified instrumentation to provide operators with sufficient data to assess reactor conditions (e.g., control rod position monitors, and reactor vessel level and pressure monitors) in the unlikely event of an accident condition prior to implementation. No changes are proposed in the types of any effluents that may be released offsite, and there is no significant increase in the allowable individual or cumulative occupational radiation exposure. Accordingly, the Commission concludes that this proposed action would result in no significant radiological environmental impact.

With regard to potential non-radiological impacts, the proposed amendment to the license involves qualification of monitoring instrumentation located within the restricted area as defined in 10 CFR Part 20. It does not affect non-radiological plant effluents and has no other environmental impact. Therefore, the Commission concludes that there is no significant non-radiological environmental impact associated with the proposed amendment.

The Notice of Consideration of Issuance of Amendment and Opportunity for Hearing in connection with this action was published in the Federal Register

April 5, 1988 (53 FR 11154). No request for hearing or petition for leave to intervene was filed following this notice.

Alternative to the Proposed Action:

Since the Commission concluded that there is no signficant environmental effect that would result from the proposed action, alternatives with equal or greater environmental impacts need not be evaluated.

The principal alternative would be to deny the requested amendment. Denial of the request would not reduce environmental impacts of plant operation.

Alternative Use of Resources:

This action does not involve the use of any resources not previously considered in the Final Environmental Statement Related to the Operation of WPPSS Nuclear Project No. 2, dated December, 1981.

Agencies and Person Consulted:

The NRC staff reviewed the licensee's request and did not consult other agencies or persons.

FINDING OF NO SIGNIFICANT IMPACT

The Commission has determined not to prepare an environmental impact statement for the proposed license amendment.

Based upon the foregoing environmental assessment, the Commission conclude that the proposed action will not have a significant effect on the quality of the human environment.

For further details with respect to this action, see the application for amendment dated December 23, 1987 and supplement dated January 15, 1988 which

are available for public inspection at the Commissions's Public Document Room, 1717 H Street, N.W., Washington, D.C. and at the Richland City Library, Swift and Northgate Streets, Richland, Washington 99352.

Dated at Rockville, Maryland, this 31st day of May, 1988.

FOR THE NUCLEAR REGULATORY COMMISSION

George W. Knighton, Director
Project Directorate V
Division of Reactor Projects - III,
IV, V and Special Projects
Office of Nuclear Reactor Regulation