June 3, 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. 46 TO FACILITY OPERATING LICENSE NPF-21
WPPSS NUCLEAR PROJECT NO. 2 (TAC 64838)

The U.S. Nuclear Regulatory Commission has issued the enclosed Amendment No. 46 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 10, 1987, as supplemented by letter dated March 31, 1987.

This amendment revises License Condition 2.C.(16), Attachment 2, item 3.(b) to extend the deadline until the third refueling outage for implementing the requirements of Regulatory Guide 1.97, Revision 2, for flux monitoring.

A copy of the related safety evaluation supporting Amendment No. 46 to Facility Operating License No. NPF-21 is enclosed.

Sincerely,

Original signed by

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

Enclosures:

1. Amendment No. 46 to Facility Operating License No. NPF-21

2. Safety Evaluation

cc w/enclosures:
See next page

*See previous concurrence

DRSP/PDV	*DRSP/PDV	*OGC	DRSP/PDV	ICSB
JLee	RSamworth:cd		GWKnighton	JJoyce
5/28/87	5/15/87	5/18/87	6/3/87	6/3/87

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PDR ADOCK 05000397
P PDR

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
1200 Seventeenth Street, N.W.
Washington, D.C. 20036

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

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

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

Mr. W. G. Conn
Burns and Roe, Incorporated
c/o Washington Public Power Supply
System
P. O. Box 968, MD 994E
Richland, Washington 99352

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

Regional Administrator, Region V (4)
U.S. Nuclear Regulatory Commission
1450 Maria Lane, Suite 210
Walnut Creek, California 94596

Chairman
Benton County Board of Commissioners
Prosser, Washington 99350

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. 46
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 March 10, 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, Facility Operating License No. NPF-21 Attachment 2, Paragraph 3.(b) is hereby amended to read as follows:

   Attachment 2, Paragraph 3.(b)

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

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

Date of Issuance: June 3, 1987

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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 46 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 letter dated March 10, 1987, the licensee requested an amendment to a license condition of the WNP-2 license. This license condition requires that the licensee shall implement requirements of Regulatory Guide 1.97, Revision 2, for flux monitoring prior to startup following the second refueling outage. In the application letter and in a supplemental letter dated March 31, 1987, the licensee details technical problems with the available monitor designs that require resolution before a commitment to one design can be made. The licensee requests that the deadline be extended to the end of the third refueling outage. It is noted that Amendment No. 23, issued May 5, 1986, to this Facility Operating License extended this deadline to the end of the second refueling outage.

2.0 EVALUATION

The licensee states that he has been unsuccessful in attempting to environmentally qualify a neutron flux monitoring system. On three separate occasions during recent qualification testing, the test assemblies experienced immediate failures. These failures are under investigation by the monitoring system vendor. It is deemed unlikely that the difficulty can be found, corrected, and the system subjected to a successful qualification test prior to restart following the second refueling outage. Thus the licensee would be unable to meet the requirement of the existing license condition.

Because Category 1 neutron flux monitoring systems that potentially meet all of the criteria of Regulatory Guide 1.97 have only recently become available to the industry, and because 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 qualification of the system now being tested, the staff finds that the licensee's request for extension to the third refueling outage is acceptable.

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In reaching this finding, the staff observed that developments by the supplier of the neutron flux monitoring system currently being tested by the licensee as well as developments by other suppliers (notably, General Electric) should make unecessary any further deferral of compliance with this license condition.

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 and changes in surveillance requirements. 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 11378) on April 8, 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 (3) 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: R. Samworth

Dated: June 3, 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. to Facility Operating License NPF-21 - WPPSS Nuclear Project No. 2 (TAC 64838)

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Sincerely,

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

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

cc w/enclosures: See next page

DSRP/PD5	DSRP/PD5	OGC	DSRP/PD5
RSamworth	JLee		GWKnighton
5/15/87	5/ /87	5/18/87	6/3/87

Document Name:
WNP-2 NEUTRON FLUX MONITOR

Requestor's ID:
DAWSON

Author's Name:
Samworth

Document Comments:

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

ROM: R. SAMWORTH
P05
NRR

DOCUMENT DATE: DATE RECEIVED 05/18/87 TASK BASIS NO: 873257

PENDING BEFORE:
FACILITY: (05000397) WASHINGTON NUCLEAR 2

LASS: AMDT

REFERRED TO: RECEIVED:

SCINTO
RUTBERG/HODGDON 05/18/87

ESCRIPTION:

AMDT TO TECH SPECS LICENSE CHANGE TO EXTEND DEADLINE UNTIL 3RD REFUELING OUTAGE FOR IMPLEMENTATION OF REQUIREMENTS OF REG GUIDE 1.97, REV 2 FOR FLUX MONITORING....

A4 5/17

Text revised 5/27/87. RBA.

EMARKS:

FOR LEGAL REVIEW

Bob Samworth:

O.K. except for place marked in Safety Evaluation where it speaks of "replacement." It does not seem to me that anything is being replaced. I suggested language that says what I think the sentence intends

APH

5/18/87

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