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 SORESEN, G.C. Washington Public Power Supply System  
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SUBJECT: Application for amend to License NPF-21, changing Tech Specs  
 re single loop operation.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

P.O. Box 968 • 3000 George Washington Way • Richland, Washington 99352

March 7, 1988  
G02-88-053  
Docket No. 50-397

U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, DC 20555

Gentlemen:

Subject: NUCLEAR PLANT NO. 2  
OPERATING LICENSE NPF-21  
REQUEST FOR AMENDMENT TO TECHNICAL SPECIFICATIONS  
SINGLE-LOOP OPERATION

In accordance with the Code of Federal Regulations, Title 10; Parts 50.90 and 2.101, the Supply System hereby requests an amendment to the WNP-2 Technical Specifications (Tech. Specs.). This amendment is being submitted to allow the operation of WNP-2 up to a power level of 75% power, with one recirculation loop operating to the design burnup of the reload fuel of 35,000 MWD/MT bundle average. Changes to the following Tech. Specs. are being requested.

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- 2.2.1 Reactor Protection System Instrumentation Setpoints
- 3/4.2.1 Average Planar Linear Heat Generation Rate
- 3/4.2.2 APRM Setpoints
- 3/4.2.3 Minimum Critical Power Ratio
- 3/4.2.6 Power/Flow Instability (New)
- 3/4.2.7 Neutron Flux Noise Monitoring (New)
- 3/4.3.6 Control Rod Block Instrumentation
- 3/4.3.10 Neutron Flux Monitoring Instrumentation (Delete)
- 3/4.4.1 Recirculation System
- B 3/4.2.1 Average Planar Linear Heat Generation Rate
- B 3/4.2.6 Power/Flow Instability (New)
- B 3/4.2.7 Neutron Flux Noise Monitoring (New)
- B 3/4.3.10 Neutron Flux Monitoring Instrumentation (Delete)
- B 3/4.4.4.1 Recirculation System

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**REQUEST FOR AMENDMENT TO TECHNICAL SPECIFICATIONS  
SINGLE-LOOP OPERATION**

The attachments to this letter include a summary of the Single-Loop Operation analyses, marked up Tech. Specs. and plant specific analysis documents and references, all of which provide the basis for the proposed no significant hazards determination.

- I. Technical Specification Changes (including justification)
- II. Single-Loop Operation Analysis (Summary)
- III. WNP-2 LOCA Analysis for Single-Loop Operation (ANF-87-118)
- IV. WNP-2 Transient Analysis for Single-Loop Operation (ANF-87-119),  
as appended by letter ANF WP-88-0020, dated February 22, 1988.

The requested amendment has been evaluated in accordance with 10CFR50.59 and determined that there are no unreviewed safety questions.

The Supply System has reviewed this change per 10CFR50.92 and determined that it does not:

- 1) Involve a significant increase in the probability or consequences of an accident previously evaluated because an analysis has been performed for the proposed method of operation, and the analysis demonstrates no significant change in previously evaluated accidents.
- 2) Create the possibility of a new or different kind of accident from any previously evaluated because the operational limitations applied to the nuclear plant have not changed. The values were derived from NRC qualified computer codes and by applying the most limiting transients throughout the cycle. These limitations are sufficient to ensure the plant is operated within previously accepted conditions.
- 3) Create a significant reduction in the margin of safety because the margin to safety is either identical or more conservative than that now used for the plant.

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REQUEST FOR AMENDMENT TO TECHNICAL SPECIFICATIONS  
SINGLE-LOOP OPERATION

As discussed above, the Supply System considers that this change does not involve a significant hazards consideration, nor is there a potential for significant change in the types or significant increase in the amount of any effluents that may be released offsite, nor does it involve a significant increase in individual or cumulative occupational radiation exposure. Accordingly, the proposed change meets the eligibility criteria for categorical exclusion set forth in 10CFR51.22(c)(9) and therefore, per 10CFR 51.22(b), an environmental assessment of the change is not required.

This Technical Specification change has been reviewed and approved by the WNP-2 Plant Operations Committee (POC) and the Supply System Corporate Nuclear Safety Review Board (CNSRB).

In accordance with 10CFR170.21, an application fee of One hundred fifty dollars (\$150.00) accompanies this request. In accordance with 10CFR50.91, the State of Washington has been provided a copy of this letter.

Should you have any questions, please contact Manager, WNP-2 Licensing.

Very truly yours,

*for* 

G. C. Sorensen, Manager  
Regulatory Programs

PLP/bk  
Attachments

cc: C Eschels - EFSEC  
JB Martin - NRC RV  
NS Reynolds - BCP&R  
RB Samworth - NRC  
DL Williams - BPA/399  
NRC Site Inspector - 901A

STATE OF WASHINGTON )  
COUNTY OF BENTON )

Subject: Amend to TS - Single-Loop Operation

I, R. B. GLASSCOCK, being duly sworn, subscribe to and say that I am the Director, Licensing and Assurance, for the WASHINGTON PUBLIC POWER SUPPLY SYSTEM, the applicant herein; that I have full authority to execute this oath; that I have reviewed the foregoing; and that to the best of my knowledge, information and belief the statements made in it are true.

DATE march 4, 1988

R B Glasscock  
R. B. GLASSCOCK, Director  
Licensing and Assurance

On this day personally appeared before me R. B. GLASSCOCK to me known to be the individual who executed the foregoing instrument and acknowledged that he signed the same as his free act and deed for the uses and purposes herein mentioned.

GIVEN under my hand and seal this 4th day of March, 1988.

Bernice Kasko  
Notary Public in and for the  
State of Washington

Residing at Kennelworth

