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 AUTH. NAME AUTHOR AFFILIATION  
 SORESEN, G. C. Washington Public Power Supply System.  
 RECIP. NAME RECIPIENT AFFILIATION  
 Document Control Branch (Document Control Desk)

SUBJECT: Application for amend to License NPF-21, <sup>see Rpt's</sup> changing Tech Specs  
 to allow use of Advanced Nuclear Fuels Corp, Inc reload fuel  
 in Cycle 3.

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## WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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

March 27, 1987  
G02-87-105

Docket No. 50-397

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

Gentlemen:

Subject: NUCLEAR PLANT NO. 2  
OPERATING LICENSE NPF-21, REQUEST FOR AMENDMENT TO TECHNICAL  
SPECIFICATIONS - RELOAD LICENSE AMENDMENT (CYCLE 3)

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 use of Advanced Nuclear Fuels Corporation, Inc. (ANF) reload fuel in Cycle 3 of WNP-2. ANF was formerly known as Exxon Nuclear Company who was the designer and fabricator of the reload fuel utilized during Cycle 2 of WNP-2. Changes to the following Tech. Specs. are being requested.

- |           |   |
|-----------|---|
| 2.0       | Safety Limits and Limiting Safety System Settings<br>(Introduction) |
| 2.1.2     | Thermal Power, High Pressure and High Flow                          |
| 3/4.1.3.4 | Four Control Rod Group Scram Insertion Times                        |
| 3/4.2.1   | Average Planar Linear Heat Generation Rate                          |
| 3/4.2.3   | Minimum Critical Power Ratio  |
| 3/4.2.4   | Linear Heat Generation Rate   |
| 3/4.3.10  | Neutron Flux Monitoring Instrumentation                             |
| B 3/4.1.3 | Control Rods  |
| B 3/4.2.1 | Average Planar Linear Heat Generation Rate                          |
| B 3/4.2.3 | Minimum Critical Power Ratio  |
| B 3/4.7.9 | Main Turbine Bypass Systems   |

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U. S. Nuclear Regulatory Commission

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REQUEST FOR AMENDMENT TO TECHNICAL SPECIFICATIONS -  
RELOAD LICENSE AMENDMENT (CYCLE 3)

The following attachments to this letter are a Reload Summary Report, marked up Tech. Specs. and the plant specific documents generated by ANF, all of which provide the basis for the proposed no significant hazards determination.

- I. Technical Specification Changes
- II. WNP-2 Cycle 3 Reload Summary Report (WPPSS-EANF-109). (Includes the Startup Physics Program).
- III. WNP-2 Cycle 3 Reload Analysis (XN-NF-87-25).
- IV. WNP-2 Cycle 3 Plant Transient Analysis (XN-NF-87-24).

The Supply System has reviewed this change per 10 CFR 50.92 and determined that it does not:

- 1) Involve a significant increase in the probability or consequences of an accident previously evaluated because the transient analyses have been re-analyzed for the reload core. The proposed changes to the Tech. Specs. reflect new operating limits associated with the reload core, are based on the reload core physics and are within the previous acceptance criteria.
- 2) Create the possibility of a new or different kind of accident from any accident previously evaluated because the operational limitations applied to Cycle 3 are identical to Cycle 2. The values were derived from NRC qualified 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 for all accidents or operational occurrences analyzed for Cycle 3 operation is either identical to or more conservative than that used for Cycle 2.

This change has been reviewed and approved by the WNP-2 Plant Operations Committee and the Supply System Corporate Nuclear Safety Review Board. In accordance with 10 CFR 50.91, the State of Washington has been provided a copy of this letter.

The Supply Sytem has evaluated this request in accordance with the criteria contained in 10 CFR 170.21 and has included a warrant of one hundred fifty dollars (\$150.00) as initial payment for this application for Amendment under Facility Category A (Power Reactors).

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REQUEST FOR AMENDMENT TO TECHNICAL SPECIFICATIONS -  
RELOAD LICENSE AMENDMENT (CYCLE 3)

WNP-2 is scheduled to begin the spring outage on April 13, 1987. The plant is currently scheduled to resume commercial operation on June 15, 1987.

Should you have any questions in this matter, please get in touch with Mr. P. L. Powell, Manager, WNP-2 Licensing.

Very truly yours,



G. C. Sorensen, Manager  
Regulatory Programs

WCW:dm

Attachments (As stated)

cc: JO Bradfute - NRC  
C Eschels - EFSEC  
JB Martin - NRC RV  
E Revell - BPA  
NS Reynolds - BLCP&R  
NRC Site Inspector

STATE OF WASHINGTON )  
 )  
County of Benton )



Subject: Tech. Spec. Amendment  
Reload License (Cycle 3)

I, G. C. Sorensen, being duly sworn, subscribe to and say that I am the Manager, Regulatory Programs 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.

  
\_\_\_\_\_  
G. C. Sorensen, Manager  
Regulatory Programs

On this day personally appeared before me G. C. Sorensen to me known to be the individual who executed the foregoing instrument and acknowledge that he signed the same as his free act and deed for the uses and purposes therein mentioned.

GIVEN under my hand and seal this 27<sup>th</sup> day of March, 1987.

  
  
\_\_\_\_\_  
Notary Public in and for the  
State of Washington

Residing at Berkeley, WA.  
Dec 89