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 FACIL: 50-397 WPPSS Nuclear Project, Unit 2, Washington Public Powe 05000397
 AUTH. NAME AUTHOR AFFILIATION
 SORENSEN, G. C. Washington Public Power Supply System
 RECIP. NAME RECIPIENT AFFILIATION
 Document Control Branch (Document Control Desk)

SUBJECT: Application to amend License NPF-21, revising Tech Spec Table
 3.3.7.1-1, "Radiation Monitoring Instrumentation" re new
 fuel vault criticality monitor alarm setpoint value. Fee
 paid.

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Washington Public Power Supply System

3000 George Washington Way P.O. Box 968 Richland, Washington 99352-0968 (509)372-5000

March 10, 1987
G02-87-079

Docket No. 50-397

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

Gentlemen:

Subject: NUCLEAR PLANT NO. 2
REQUEST FOR AMENDMENT TO TECHNICAL SPECIFICATIONS
TABLE 3.3.7.1-1 RADIATION MONITORING
INSTRUMENTATION

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 (see attached). Specifically, the Supply System is requesting revision of the new fuel vault criticality monitor alarm setpoint value in Table 3.3.7.1-1 be changed from $\leq 10R/h(a)$ to a revised value of $\leq 5R/h(a)$.

As discussed in the WNP-2 Final Safety Analysis Report Section 12.3.4.5 the criticality monitor alarm setpoints are calculated using the criteria from 10 CFR 70.24.a.1 which requires detecting a dose rate of 20 rads per minute of combined neutron and gamma radiation at 2 meters. The current alarm setpoint value of $< 10R/h(a)$ was determined by calculations using criteria from ANSI 16.2 1969, Appendix "Example of Criticality Accident Alarm System". This change request reflects utilization of the revised criteria presented in ANSI/ANS 8.3 1979, "Criticality Accident Alarm System", Appendix B. The calculated dose rate using the methodology as defined in the revised Bases is 5.05 R/hr. The allowable value for the alarm setpoint was therefore established at 5R/hr. This setpoint will meet or exceed the criteria set forth in 10 CFR 70.24(a).

The Supply System has reviewed this request per 10 CFR 50.59 and 50.92 and has determined that it does not represent an unreviewed safety question or significant hazard and does not:

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REQUEST FOR AMENDMENT TO TS, RADIATION MONITORING INSTRUMENTATION

- 1) Involve a significant increase in the probability or consequences of an accident previously evaluated because the new calculational method is considered to more accurately predict the combined gamma and neutron dose rate that the criticality monitors would sense in the dry storage area for new fuel.
- 2) Create the possibility of a new or different kind of accident than previously evaluated because no new systems or procedures are introduced by this request.
- 3) Involve a significant reduction in a margin of safety because the calculated alarm setpoints are based on the currently accepted criteria in ANSI/ANS 8.3 1979 which calculates a trip setpoint value that is more conservative than the previously accepted method.

Additionally, this technical specification 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 170.21, an application fee of One hundred fifty dollars (\$150.00) accompanies this request. In accordance with 10 CFR 50.91, the State of Washington has been provided a copy of this letter.

Should you require any further information or assistance to aid in evaluating this request, please contact Mr. P.L. Powell, Manager, WNP-2 Licensing.

Very truly yours,



G. C. Sorensen, Manager
Regulatory Programs

SIS/bk
Attachment

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: Rad. Monitoring
Instrumentation

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
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 9th day of March, 1987.

S.R. Michaels
Notary Public in and for the
State of Washington

Residing at Richland, WA.
Dec '89



