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 SORESENSEN, G.C. Washington Public Power Supply System
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SUBJECT: Application for amend to License NPF-21, amending Tech Spec
 3.8.2.1 DC sources.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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

April 5, 1990
G02-90-070

Docket No. 50-397

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

Gentlemen:

Subject: NUCLEAR PLANT NO. 2, OPERATING LICENSE NPF-21
REQUEST FOR AMENDMENT TO TECHNICAL SPECIFICATION
3.8.2.1 DC SOURCES, BATTERY LOAD PROFILE-REVISED

Reference: Letter, G02-90-036, GC Sorensen (SS) to NRC,
same subject, dated March 2, 1990

In accordance with the Code of Federal Regulations, Title 10, Parts 50.90 and 2.101, the Supply System hereby submits a request for amendment to the WNP-2 Technical Specifications. Specifically, the Supply System is requesting that the battery load profile for the B1-HPCS battery in Surveillance Requirement 4.8.2.1.d.2 be revised as attached to reflect the plan to add an additional load to this battery during our spring 1990 refueling outage.

An a-c driven soak back pump for the High Pressure Core Spray (HPCS) diesel is to be installed in parallel with the existing d-c driven pump. The a-c pump will be used during normal operation and the existing pump will be available as a backup. The soak back pump continuously circulates warm lube oil through the turbocharger bearings to minimize wear on engine starts. It also removes heat from the turbocharger following engine shutdown. The reason for the addition of the a-c driven pump is that the present d-c driven pumps were not designed for continuous operation and have, therefore, been a continuing maintenance problem.

With this change, the d-c motor represents a load to the battery that will be applied at the time of loss of a-c power. Previously the pump was included in the load profile as a continuous 4.4 amp load. The d-c pump motor in-rush current is 19.6 amps which results in a 15.2 amp addition to the load profile for 0-13 seconds (the continuous 4.4 amp load is subtracted from the 19.6 in-rush load).

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REQUEST FOR AMEND TO TS 3.8.2.1 DC SOURCES, BATTERY LOAD PROFILE

A battery load calculation has been performed confirming that the battery can accommodate this increased load and meet the operability considerations of the Surveillance Requirements in Section 4.8.2.1 of the WNP-2 Technical Specifications. However, the battery load profile specified in surveillance 4.8.2.1.d.2 for the B1-HPCS battery must be changed such that the surveillance will continue to verify operability of the battery for the increased 0-13 second load.

The Supply System has reviewed the revision per 10CFR 50.92 and provides the following in support of a finding for no significant hazards consideration. This change does not:

- 1) Involve a significant increase in the probability or consequences of an accident previously evaluated because calculations have been performed demonstrating that the battery can accommodate the increased load and meet all requirements for operability. Hence, the operation of the battery under normal and upset conditions is not degraded and this change does not impact the probability or consequences of an accident previously evaluated.
- 2) Create the possibility of a new or different kind of accident from any previously evaluated because the battery is not being changed, nor are any changes being made to the way it is being utilized or asked to perform. The additional load being added has been evaluated, by calculation, as not resulting in any changes to the battery capability and confirmed the battery as still capable of fulfilling the licensing bases requirements. Hence no new or different kind of accident is credible due to this change.
- 3) Involve a significant reduction in a margin of safety because as discussed above calculations have been performed to confirm that the battery will remain operable and meet the Surveillance Requirements of Technical Specification 4.8.2.1. Hence, the battery will continue to fulfill its safety requirements. In meeting the requirements of the Technical Specification Surveillance Requirements in Section 4.8.2.1 the required margin of safety is assured.

As discussed above, the Supply System considers that this change does not involve a significant hazards consideration. Further, the change has no 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 10CFR 51.22(c)(9) and therefore, per 10CFR 51.22(b), an environmental assessment of the change is not required.

It should be noted that the reference requested a change to the load profiles for the other batteries included in this technical specification section. The attached marked-up copy of the Technical Specifications indicates what was previously requested by the reference and what is requested by this submittal.

REQUEST FOR AMEND TO TS 3.8.2.1 DC SOURCES, BATTERY LOAD PROFILE

In the reference we explained that the technical specification change request of that reference was required to support battery load profile testing to be conducted in the spring refueling outage (now scheduled to begin April 20). It would be desirable to have this change for the B1-HPCS battery load profile also included in your reply prior to the outage. However this is not absolutely necessary as we can install and then tag out the a-c pump until the amendment is provided. Therefore we request that this second submittal not result in a delay in responding to the reference that would extend into the outage.

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

Very truly yours,



G. C. Sorensen, Manager
Regulatory Programs

AGH/bk

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

STATE OF WASHINGTON)
)
COUNTY OF BENTON)

Request for Amend. to TS 3.8.2.1 DC
Subject: Sources, Battery Load Profile

I, A. G. HOSLER, being duly sworn, subscribe to and say that I am the Manager, WNP-2 Licensing, 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 April 5, 1990

Alan Hosler
A. G. HOSLER, Manager
WNP-2 Licensing

On this day personally appeared before me A. G. HOSLER 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 5th day of April, 1990.

Bernice Kook
Notary Public in and for the
State of Washington

Residing at Kennewick, Wa

