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 ADENSAM, E. G. BWR Project Directorate 3

SUBJECT: Supplemental application for amend to License NPF-21
 changing Tech Specs re establishment of MAPLHOR limits
 during single loop operation. Two sets of curves for each
 fuel type in both operating conditions proposed.

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408407: Supplemental application for amendment to License 408407-01 changing both Space re establishment of MAXIMUM limits during single loop operation. Two sets of curves for each fuel type in both operating conditions proposed.

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Washington Public Power Supply System

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May 22, 1986
G02-86-477

Docket No. 50-397

Director of Nuclear Reactor Regulation
Attn: E. G. Adensam, Project Director
BWR Project Directorate No. 3
Division of BWR Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Ms. Adensam:

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

Reference: Letter, G02-86-173, G. C. Sorensen (SS) to E. G.
Adensam (NRC), "Request for Amendment to Technical
Specifications - Reload License Amendment (Cycle 2)",
dated February 26, 1986

The reference letter requested certain changes to the WNP-2 Technical Specifications. In submitting changes to Section 3/4.2.1, Average Planar Linear Heat Generation Rate, the Supply System incorrectly applied direction given by Exxon Nuclear Company (ENC) for establishing MAPLHGR limits while in single loop operation. Exxon has evaluated the GE limits as being conservative with respect to the Exxon fuel design based on their DBA LOCA analyses and supports application of the adjusted GE MAPLHGR single loop limit. To avoid confusion in interpreting LCO 3/4.2.1, we are proposing the usage of two separate sets of curves for each fuel type in both operating conditions. The two sets will present the two loop operating limits for all fuel types and a separate set for single loop operation. For GE fuel, the new graphs for single loop operation do not represent a change to previous submittals. For the Exxon fuel a conversion factor of .77 is being applied to mathematically apply slightly more conservative nodal MAPLHGR limits than applied to GE fuel. Direct application of the GE 8CR233 fuel single loop APLHGR limit curve in monitoring MAPLHGR for ENC fuel is not possible with existing POWERPLEX software.

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E. G. Adensam

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RELOAD LICENSE AMENDMENT (CYCLE 2), SUPPLEMENTAL INFORMATION

To verify that use of the .77 multiplier applied to the ENC XN-1 fuel would be conservative for Cycle 2 operation when compared to the previously approved .84 multiplier times the GE 8CR233 type fuel MAPLHGR limits applied to the ENC XN-1 fuel, a comparative set of calculations was performed. To account for differences in Bundle Average Exposure versus Average Planar Exposure, a conservative axial peaking factor of 1.5 was divided into Average Planar Exposures to yield the comparative Bundle Average Exposure points. Based on the results of these comparative calculations, the single loop MAPLHGR curve for ENC XN-1 fuel has been truncated at a bundle average exposure of 15,000 MWD/mt.

Although this supplementary information presents more conservative limits than those previously submitted, the Supply System has reviewed this supplementary information 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 analyses previously performed by GE for cycle one supported extended single loop operation and the Exxon evaluation of their DBA-LOCA analyses concluded application of the GE limits for Exxon fuel was conservative.
- 2) Create the possibility of a new or different kind of accident from any accident previously evaluated because the analyses is specifically designed to evaluate the most limiting accident.
- 3) Involve a significant reduction in the margin of safety because the nature of the analyses and evaluation is to ensure conservative limiting conditions for operation are applied. This change moves in a more conservative direction.

Additionally, this supplementary information has been reviewed with respect to 10 CFR 50.59 and does not represent an unreviewed safety question.

Attached are proposed technical specification pages reflecting this supplementary information. Should you have any further questions, please contact Mr. P. L. Powell, Manager, WNP-2 Licensing.

Very truly yours,



G. C. Sorensen, Manager
Regulatory Programs

PLP/MRW/tmh
Attachments

cc: JO Bradfute - NRC
C Eschels - EFSEC
JB Martin - NRC RV

E Revell - BPA
NS Reynolds - BLCP&R
NRC Site Inspector