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SUBJECT: Responds to Exxon Nuclear Corp 860617 notification that NRC considered updated hot channel delta CPR methodology in COTRANSA model to be unreviewed. Addl calculation performed. No further action necessary.

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Subject: Respond to Exxon Mobil Corp BAC&V notification that WRC contacted updated but channel delta QPR methodology in COYRAMA model to be unreviewed. Add calculation performed. No further action necessary.

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DATE 08-01-2001 BY 60322 UCBAW/sab

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Washington Public Power Supply System

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8607080058 860627
PDR ADOCK 05000397
P PDR

G02-86-0604
June 27, 1986

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
SUPPLEMENTAL MCPR ANALYSES
FOR WNP-2 CYCLE 2

On June 17, 1986, Exxon Nuclear Corporation (ENC) informed the Supply System that the NRC considered a portion of the plant transient analysis methodology utilized in the WNP-2 cycle 2 license submittal to be unreviewed. ENC stated that during a recent review of the Dresden 3 reload submittal, the NRC became aware of the incorporation of an updated ENC hot channel delta CPR methodology in the COTRANSA model. This change was also included in several other previously approved reload license applications, including the WNP-2 cycle 2 reload application, but had not been identified as a change by the NRC and thus had not been reviewed by the NRC. The NRC notified ENC that they considered this methodology to be unreviewed and directed them to contact the affected utilities.

The Supply System then contacted M. W. Hodges and J. O. Bradfute of the NRC for confirmation and to ascertain what actions the NRC expected the Supply System to take in response. They indicated that no specific action was required by the NRC but directed the Supply System to work with ENC to determine an appropriate course of action. They also stated that the amount of information they had been given to date on the hot channel methodology was inadequate to complete a review and that they were waiting for more information from ENC. The Supply System communicated the need expressed by the NRC regarding additional information on the hot channel methodology to ENC and requested that they provide additional information. ENC responded that they would do so.

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In recognition of the need for assurance that existing operating limits are consistent with analysis results based upon reviewed methods and to support continued operation of WNP-2, ENC performed an additional calculation for WNP-2 using the critical power methodology described in XN-NF-79-71(P), Rev. 2 at the following conditions:

System Transient Event	Limiting: LRWB
Scram Time Characteristics	TS Values
Power	104.2%
RPT	Inoperable
Cycle Exposure	EOC - 2500 MWD/MTU (3605 MWD/MTU)

These represent the most conservative operating conditions allowed by our present MCPR TS. This analysis resulted in a delta CPR of 0.14, which is still well below the delta CPR imposed by CRWE (0.21 for ENC fuel, 0.22 for GE fuel). ENC has reviewed other WNP2 transient analyses and determined that none would be more limiting than the CRWE when using XN-NF-79-71(P), Rev. 2 delta CPR methodology. Thus, the CRWE is the limiting event for exposures up to EOC minus 2500 MWD/MTU, or a cycle exposure of 3605 MWD/MTU. Since the validity of the CRWE analysis remain intact (it does not utilize the hot channel methodology), the current WNP-2 TS MCPR limits conservatively bound the LRWB results calculated from previously approved methodology out to a cycle 2 exposure of 3605 MWD/MTU. Thus, for operation in cycle 2 out to 3605 MWD/MTU, no further action is considered necessary. ENC has committed to perform additional analyses with delta CPR methodology acceptable to the NRC prior to a cycle 2 exposure of 3605 MWD/MTU.

Should you have any additional questions regarding this matter, please contact Mr. P. L. Powell, Manager, WNP-2 Licensing.

Very truly yours,



G. C. Sorensen, Manager
Regulatory Programs

MCH/tmh

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

