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SORENSEN, G. C. Washington Public Power Supply System
RECIP. NAME RECIPIENT AFFILIATION
ADENSAM, E. G. BWR Project Directorate 3

SUBJECT: Advises that Exxon Nuclear completed reanalysis of facility transients using XCOBRA-T model. Results of previously reported analyses performed using COTRANSA hot channel method encl.

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October 30, 1986
G02-86-981

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, CONFIRMATION OF TECHNICAL SPECIFICATION MCPR OPERATING LIMITS FOR CYCLE 2

References:
1) Letter, G02-86-604, G. C. Sorensen (SS) to E. G. Adensam (NRC), "Supplemental MCPR Analyses for WNP-2 Cycle 2", dated June 27, 1986
2) Letter, G02-86-477, G. C. Sorensen (SS) to E. G. Adensam (NRC), "Request for Amendment to Technical Specifications - Reload License Amendment (Cycle 2), Supplemental Information", dated May 22, 1986
3) Letter, G02-86-367, G. C. Sorensen (SS) to E. G. Adensam (NRC), "Request for Amendment to Technical Specifications - Reload License Amendment (Cycle 2) - Supplement", dated April 24, 1986
4) 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

In Reference 1) the Supply System advised the Staff that Exxon Nuclear Company, Inc. (ENC) had committed to perform additional analyses with delta CPR methodology acceptable to the NRC prior to a Cycle 2 exposure of 3605 MWD/MTU. The purpose of this letter is to advise the Staff that ENC has completed their re-analysis of the WNP-2 Cycle 2 transients using the XCOBRA-T model.

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The results as shown in the attached table confirm the results of the previously reported analyses performed using the COTRANSA hot channel method (References 2, 3, and 4). The current cycle is presently at an exposure of approximately 2,500 MWD/MTU, well in advance of the 3,605 MWD/MTU specified. The re-analysis verifies that the WNP-2 Technical Specifications remain appropriate and acceptable throughout Cycle 2.

The Supply System understands that the Exxon Nuclear Company has submitted the XCOBRA-T model to the Staff, and that it is presently under their review. The use of the XCOBRA-T model has previously been reviewed and found acceptable by the NRC on a case by case basis without generic approval of the model being required prior to its use.

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

Very truly yours,

GC Sorensen

G. C. Sorensen, Manager
Regulatory Programs

HLA/tmh
Attachment

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

TABLE

TRANSIENT ANALYSIS CASES RECALCULATED WITH XCOBRA-T FOR WNP-2 CYCLE 2 OPERATIONS

Case	Description	% Power/%Flow	Tech Spec MCPR Limit GE Fuel	Tech Spec MCPR Limit ENC Fuel	Status
1	LRNB:RPT Operable and Normal Scram	104/106	1.29	1.28	Confirmed
2	LRNB:RPT Operable and Tech Spec Scram	104/106	1.35	1.34	Confirmed
3	LRNB:RPT Inoperable and Normal Scram	104/106	1.37	1.36	Confirmed
4	LRNB:RPT Operable and Normal Scram	104/100	1.28	1.27	Confirmed
5	LRNB:RPT Operable and Tech Spec Scram	104/100	1.33	1.32	Confirmed
6	LRNB:RPT Inoperable and Normal Scram	104/100	1.37	1.36	Confirmed
7	FWCF;RPT Operable and Normal Scram	47/100	Nonlimiting		Confirmed

LRNB: Load rejection with no bypass.
RPT: Recirculation pump trip.
FWCF: Feedwater controller failure.