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 FACIL: 50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana & 05000316
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 ALEXICH, M.P. Indiana & Michigan Electric Co.
 RECIP. NAME RECIPIENT AFFILIATION
 DENTON, H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Informs that on 850122, Exxon Nuclear Co recommended addl
 (restrictions on Cycle 5 operation, based on LOCA/ECCS
 analysis. New administrative K(Z) curve in effect. Discussion
 re new info planned for 850207 meeting.

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February 11, 1985
AEP:NRC:0860X

Donald C. Cook Nuclear Plant Unit No. 2
Docket No. 50-316
License No. DPR-74
Unit 2 LOCA/ECCS Analysis

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Denton:

An application for amendment to the Donald C. Cook Nuclear Plant Unit 2 Technical Specification which would permit a higher limit for Enthalpy Rise Hot Channel Factor, F_{AH} , was submitted in letter AEP:NRC:0860J dated August 28, 1984. During the course of the review of the submittal, the NRC staff asked us to consider a range of axial power distribution shapes that are expected over the life of the core. As indicated in our letter AEP:NRC:0860V dated December 7, 1984, we imposed a new administrative K(Z) curve to assure margin to 10 CFR 50.46 limits. This administrative K(Z) curve was based on preliminary calculations performed by Exxon Nuclear Company (ENC).

On January 22, 1985, ENC recommended additional restrictions on Cycle 5 operation based on analyses performed up to that time. The recommendation restricted the maximum allowed Axial Flux Difference (ΔI) at full power to below -2.5% up to a Cycle 5 exposure of 9000 MWD/MTU (expected to be reached by March 25, 1985). This recommendation was imposed as an administrative limit on ΔI to maintain the ΔI below -2.5% until further analyses are performed.


We plan to discuss this with the NRC staff at our upcoming February 7, 1985 meeting along with the analyses ENC has performed and LOCA model changes ENC is planning to implement.

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PDR

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This document has been prepared following Corporate procedures which incorporate a reasonable set of controls to insure its accuracy and completeness prior to signature by the undersigned.

Very truly yours,


M. P. Alexich ^{gm}
Vice President 2/1/85

/wj

Attachment

cc: John E. Dolan
W. G. Smith, Jr. - Bridgman
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