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 RECIP. NAME RECIPIENT AFFILIATION
 DENTON, H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Informs of coding error found in program used for LOCA-ECCS analysis submitted in XN-NF-83-61, "DC Cook Unit 1 LOCA-ECCS Analysis for Extended Exposure." Exxon-reperformed analysis w/coding error corrected.

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March 20, 1985
AEP:NRC:0745T

Donald C. Cook Nuclear Plant Unit No. 1
Docket No. 50-315
License No. DPR-58
REVISION TO ANALYSIS WHICH SUPPORTED A TECHNICAL SPECIFICATION CHANGE

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

Dear Mr. Denton:

Exxon Nuclear Company informed AEP of a coding error in their LOCA-ECCS analysis. This coding error was found in a program used for the LOCA-ECCS analysis of the D. C. Cook Nuclear Plant Unit 1. The analysis in question was submitted to NRC in XN-NF-83-61, "D. C. Cook Unit 1 LOCA-ECCS Analysis for Extended Exposure," for an exposure of 48,000 MWD/MTU. The error was in the TOODEE2 code which is used for the reflood/heatup calculation. The error resulted in an increase in the heat transfer coefficient during reflood, thus underpredicting the peak cladding temperature (PCT).

Exxon has informed us that the analysis has been reperformed for this high burnup case with the coding error corrected. They indicated that the revised PCT is 1785°F, which is an increase of 49°F. This revised PCT still satisfies the requirements of 10CFR50.46. Therefore, we believe that there is no further action required on this matter.

Exxon Nuclear Company has advised us that they will inform you of the coding error formally as required by 10 CFR 21.21. They have further advised us that this coding error does not affect the analyses performed for D. C. Cook Nuclear Plant Unit 2.

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
Vice President

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JLB:wj

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1. The first part of the report is a summary of the work done during the year.

2. The second part is a detailed account of the work done during the year, and is divided into two main sections: (a) the work done during the first half of the year, and (b) the work done during the second half of the year.

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Mr. Harold R. Denton, Director

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March 20, 1985

cc: John E. Dolan
W. G. Smith, Jr. - Bridgman
George Bruchmann
R. C. Callen
R. Charnoff
NRC Resident Inspector - Bridgman
G. F. Owsley, ENC - Richland, WA

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