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 FACIL: 50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana & 05000316
 AUTH. NAME AUTHOR AFFILIATION
 WARD, G. N. Exxon Nuclear Co., Inc. (subs. of Exxon Corp.)
 RECIP. NAME RECIPIENT AFFILIATION
 DENTON, H. R. Office of Nuclear Reactor Regulation, Director (post 851125)

SUBJECT: Forwards Rev 1 to proprietary XN-NF-85-68(P), "DC Cook Unit
 2 Limiting Break LOCA/ECCS Analysis, 10% Steam Generator Tube
 Plugging & K(Z) Curve." Rev reflects changes to reflood
 correlation per NRC concerns.

SEE SUBJECT FILES FOR ENCLOSURE

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April 24, 1986
GNW:057:86

Donald C. Cook Nuclear Plant No. 2
Docket No. 50-316
License No. DPR-74
TRANSMITTAL OF
RESPONSES TO NRC QUESTIONS
IN SUPPORT OF UNIT 2 OPERATION

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

Subject: Transmittal of Donald C. Cook Unit 2 Limiting Break
LOCA/ECCS Analysis, Revision 1.

Reference: Letter from R.A. Copeland to Harold R. Denton dated
October 3, 1985 (RAC:067:85).

Dear Mr. Denton:

Enclosed are five copies of the Exxon Nuclear Company technical report XN-NF-85-68(P), Revision 1, entitled "Donald C. Cook Unit 2 Limiting Break LOCA/ECCS Analysis, 10% Steam Generator Tube Plugging and K(z) Curve," which supports operation of the D.C. Cook Unit 2 Nuclear Plant. At the request of American Electric Power Service Company (AEPSC), this report is being transmitted directly by Exxon Nuclear.

This revision reflects changes which have been made to the reflood correlation used in the analysis. The reflood correlations were developed by Exxon Nuclear based on the Exxon Nuclear Fuel Cooling Test Facility data. The changes in the reflood correlation were made to resolve NRC concerns which arose during the review of these correlations. Verbal approval has been received from the NRC reviewer to use these correlations as modified.

Exxon Nuclear Company considers information contained in the enclosed technical report to be proprietary. The Affidavit provided with the

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H. R. Denton

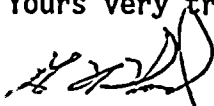
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reference letter provides the necessary information to allow the withholding of the responses from public disclosure as required by 10 CFR 2.790(b).

If you have any questions regarding this transmittal, please contact Mr. James G. Feinstein of AEPSC at (614) 233-2040.

Yours very truly,


G. N. Ward, Manager
Reload Licensing

mln

cc: D. L. Wiggington (NRC) (W/Att)
J. Watt (NRC) (W/Att)
M. P. Alexich (AEPSC)

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