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

SUBJECT: Forwards nonproprietary & proprietary Rev 1 to, "DC Cook Unit 2 Cycle 5 5% Steam Generator Tube Plugging Limiting Break LOCA/ECCS Analysis." Proprietary rept withheld (ref 10CFR2.790).

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**EXXON NUCLEAR COMPANY, Inc.**

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May 22, 1984  
JCC:082:84

Donald C. Cook Nuclear Plant Unit No. 2  
Docket No. 50-316  
License No. DPR-74  
REVISED LOCA ECCS ANALYSIS FOR  
UNIT 2 CYCLE 5 OPERATION

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

Reference: Letter, J.C. Chandler (ENC) to H.R. Denton (NRC), "Supporting Documentation for Unit 2 Technical Specification Changes for Cycle 5 Reload", dated March 2, 1984; JCC:040:84.

Dear Mr. Denton:

Enclosed for your use are forty copies of Revision 1 to XN-NF-84-21(P), "Donald C. Cook Unit 2 Cycle 5 5% Steam Generator Tube Plugging Limiting Break LOCA ECCS Analysis." At the request of American Electric Power Service Company (AEPSC), this information is being transmitted directly by Exxon Nuclear. This information has been reviewed and approved by AEPSC.

Exxon Nuclear Company considers information contained in the enclosed report to be proprietary. In accordance with the Commission's Regulation 10 CFR 2.790(b), the Affidavit enclosed with the reference letter covering the initial submission of XN-NF-84-21(P) provides the necessary information to support the withholding of this document from public disclosure. Forty copies of the non-proprietary version of this report are also enclosed for your use.

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

Sincerely,

*J.C. Chandler*

J.C. Chandler, Lead Engineer  
Reload Fuel Licensing

cc: Mr. D.L. Wigginton (NRC)  
Mr. M.P. Alexich (AEPSC)

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