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

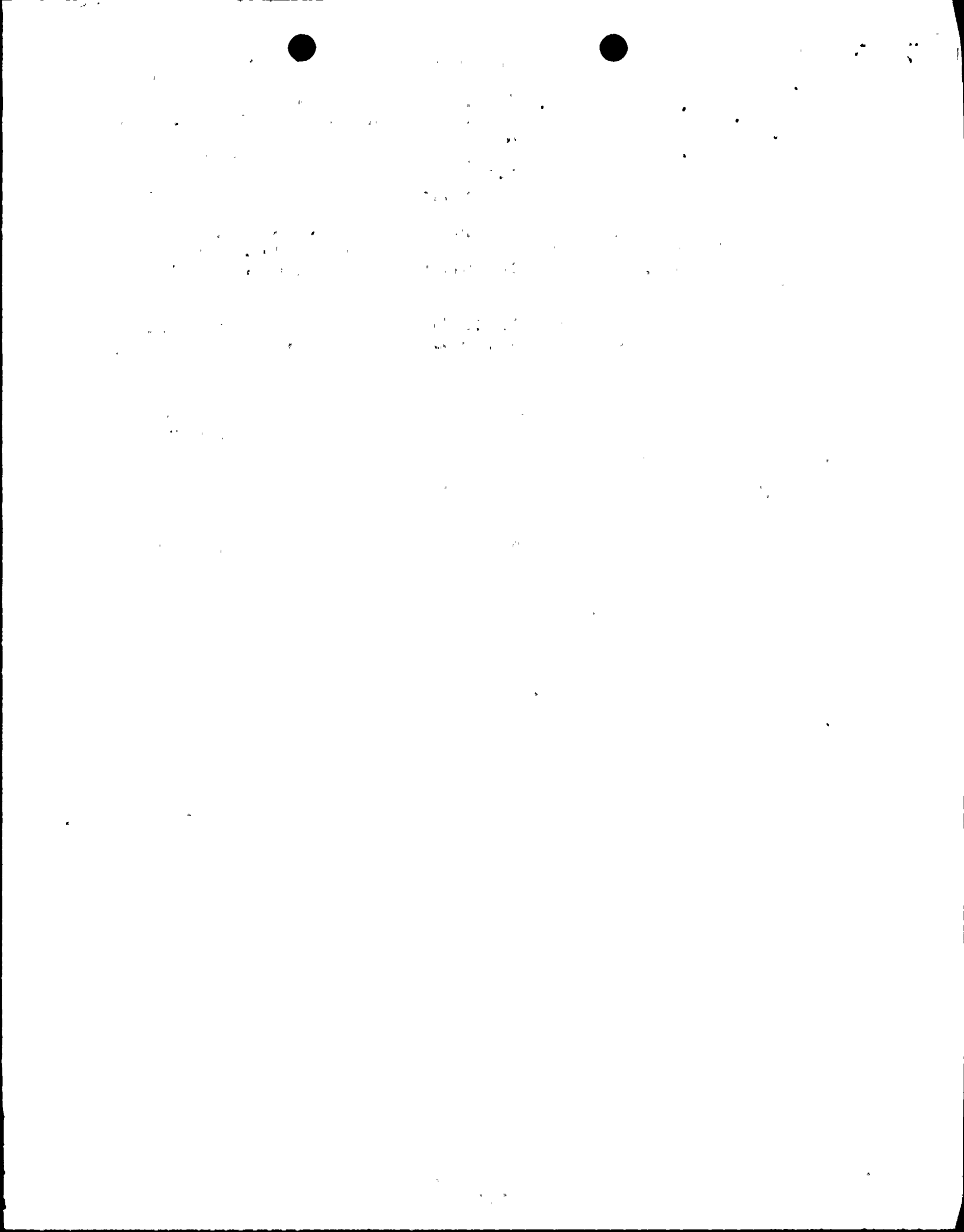
SUBJECT: Forwards proprietary responses to NRC Questions 4 & 5 re  
 Rev 1 to XN-NF-85-64(P) "Plant Transient Analysis for DC  
 Cook Unit 2 w/10% Steam Generator Tube Plugging Response  
 withheld (ref 10CFR2.790).

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**EXXON NUCLEAR COMPANY, INC.**

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April 17, 1986

GNW:055:86

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

Dear Mr. Denton:

SUBJECT: Transmittal of Responses to NRC Questions

- Ref.: (1) XN-NF-85-64(P), Rev. 1, "Plant Transient Analysis for D.C. Cook Unit 2 with 10% Steam Generator Tube Plugging," Exxon Nuclear Company, March 1986
- (2) Letter, R.A. Copeland (ENC) to H.R. Denton (NRC), dated November 15, 1985; RAC:070:85

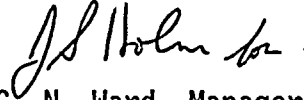
Enclosed are five copies of responses to Numbers 4 and 5 of the NRC questions transmitted April 3, 1986 to American Electric Power Service Corporation (AEPSC) concerning the Reference 1 topical report. This topical report provides support for Cycle 6 operation of the D.C. Cook Unit 2 nuclear power plant. These questions were previously discussed in an April 10, 1986 telephone conversation with AEPSC, NRC and ENC personnel. NRC personnel indicated that the verbal responses to the remaining April 3 questions were acceptable.

At the request of AEPSC, these responses are being transmitted directly to the NRC by Exxon Nuclear. Information contained in the responses is proprietary to Exxon Nuclear Company. The Affidavit provided with the Reference 2 letter provides the necessary information to allow the withholding of the responses from public disclosure as required by 10 CFR 2.790(b).

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PDR ADDCK 05000316  
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If you have any questions regarding this transmittal, please contact Mr. James B. Feinstein of AEPSC at (614) 233-2040.

Sincerely,



G. N. Ward, Manager  
Reload Licensing

gf

Enclosure

cc: Mr. D. L. Wigginton (NRC)(w/enc.)  
Mr. W. Jensen (NRC)(w/enc.)  
Mr. M. P. Alexich (AEPSC)