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 FACIL: 50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana & 05000316  
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 DENTON, H.R.      Office of Nuclear Reactor Regulation, Director

SUBJECT: Submits addl info re Cycle 4 reload & uprate. Info  
 incorporates conclusion concerning effects of uprating on  
 various plant safety sys, components & structures.

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January 12, 1983

AEP:NRC:0637I

Donald C. Cook Nuclear Plant, Unit No. 2  
Docket No. 50-316  
License No. DPR-74  
UNIT 2 CYCLE 4 ADDITIONAL RELOAD AND UPRATE INFORMATION

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

Dear Mr. Denton:

This letter provides additional information in support of our application for the Cycle 4 reload power and uprate of Unit No. 2 of the Donald C. Cook Nuclear Plant. This letter incorporates into the docket certain information transmitted to the NRC by Exxon Nuclear Company (ENC) and provides you with the conclusions of our review regarding the effects of uprating on the various plant safety systems, components, and structures of Unit No. 2.

At the request of certain members of your Staff, ENC has recently submitted information pertaining to the Cycle 4 reload of Unit No. 2. This information is contained in Mr. G. F. Owsley's December 20, 1982 letters to your Messrs. R. Licciardo and Sheh-Liang Wu regarding reactivity parameters and the mechanical integrity of the ENC 17 x 17 fuel, respectively, Mr. J. C. Chandler's January 4, 1983 letter to Mr. D. A. Eisenhut regarding responses to NRC Staff concerns raised during the December 2, 1982 meeting with AEPSC and Mr. G. Cooke's January 10, 1983 letter to Mr. D. Wigginton regarding the total reactor coolant flowrate used by ENC in their Plant Transient Safety Analyses. In addition, ENC has recently transmitted to the NRC twenty-five (25) copies of Revision 1 to ENC Report No. XN-NF-82-37 entitled "D. C. Cook Unit 2, Cycle 4 Safety Analysis Report". It is requested that the information contained in these four letters as well as the revision to the referenced report be incorporated into Docket No. 50-316 for Unit No. 2 of the Donald C. Cook Nuclear Plant.

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As indicated in our letters No. AEP:NRC:0637A dated April 7, 1982, and AEP:NRC:0637B dated July 8, 1982, AEPSC has been conducting a review to determine the effects of uprating on the various plant safety systems, components, and structures of Unit No. 2. We have recently completed our review and have concluded that the planned uprating has a negligible effect on all those systems, components and structure needed for the continued safe and reliable operation of Unit No. 2 of the Donald C. Cook Nuclear Plant.

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

Very truly yours,



R. S. Hunter  
Vice President

/os

cc: John E. Dolan - Columbus  
M. P. Alexich  
R. W. Jurgensen  
W. G. Smith, Jr. - Bridgman  
R. C. Callen  
G. Charnoff  
NRC Resident Inspector at Cook Plant - Bridgman

10-10-10

1. The first part of the report is a general description of the project and its objectives. It includes a brief history of the project and a statement of the problem to be solved.

2. The second part of the report is a detailed description of the methodology used in the study. It includes a description of the data collection methods and the statistical analysis techniques used.

3. The third part of the report is a discussion of the results of the study. It includes a summary of the findings and a comparison of the results with previous studies.

4. The fourth part of the report is a conclusion and a list of references. It includes a summary of the main findings and a list of the sources used in the study.