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SUBJECT: Forwards proprietary "seismic Evaluation of Exxon Nuclear 17X17 Assemblies in Westinghouse PWRs," re safety evaluation & EIA concerning Amend 48 to License DPR-74. Rept withheld (ref 10CFR2.790).

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FORWARD: Proprietary "seismic Evaluation of Lxxon Nuclear
 15X17 Assembly in Westinghouse Plant," re safety evaluation
 & LIA concerning same as to license DPR-10, kept withheld
 (see 100105, 7001)

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November 11, 1983

AEP:NRC:0637R

Donald C. Cook Nuclear Plant Unit 2
Docket No. 50-316
License No. DPR. 74
SEISMIC EVALUATION OF THE STRUCTURAL
ADEQUACY OF THE FUEL ASSEMBLIES

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

Dear Mr. Denton:

This letter transmits the attached information concerning the Safety Evaluation And Environmental Impact Appraisal, Related to Amendment 48 to Facility Operating License No. 74, Section B, paragraph 2.10. Paragraph 2.10 of the Appraisal indicates that the licensee must submit an analysis of the seismic effect of the Exxon fuel on the structural adequacy of the D. C. Cook Nuclear Plant Unit 2 fuel assemblies.

During a telephone conference on April 25, 1983 between Messrs. D. Wigginton, R. Meyer, S. L. Wu of your staff; Mr. G. Owsley of Exxon Nuclear Co.; and Messrs. T. R. Satyan-Sharma and H. Sobel of our staff, the participants agreed that a comparative seismic analysis would satisfy the above Appraisal condition. The analysis would compare the strength of critical Exxon assembly components with loads calculated by Westinghouse.

Attachment 1 to this letter provides the details of the comparative seismic analysis, which was primarily provided to us by Exxon Nuclear Company. Attachment 1 also contains certain information which was provided to us by Westinghouse Electric Corporation. The details to the Westinghouse mathematical model for the analysis are shown in Figure 2-4 of the Westinghouse Report (W-CAP) 8236, dated December, 1973. The details of the Exxon mathematical model for the analysis are shown in Figure 4-1 of the Exxon Report XN-NF-76-47(P) (A), dated January, 1982. Based on the comparative analysis and the Guide Tube Stress analysis detailed in Attachment No. 1, we believe that the Exxon fuel is similar in strength to the Westinghouse fuel and is capable of withstanding the design basis seismic events. We believe this comparative analysis of the Exxon fuel satisfies the NRC staff's concern noted in the above Appraisal.

Attachment 1 to this submittal contains information proprietary to both Westinghouse Electric Corporation and Exxon Nuclear Company. Therefore, this submittal is supported by an Application For

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1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

[illegible]

1. The first step in the process of the investigation is the identification of the problem. This is done by the investigator, who is usually a member of the research team. The investigator will identify the problem by looking at the data and trying to find out what is going on.

2. The second step is to define the problem. This is done by the investigator, who will define the problem in terms of the research question. The research question is a statement that describes the problem and what the investigator wants to find out.

3. The third step is to design the study. This is done by the investigator, who will design the study in terms of the research question. The study design is a plan that describes how the investigator will collect and analyze the data.

4. The fourth step is to collect the data. This is done by the investigator, who will collect the data in terms of the research question. The data collection is the process of gathering information about the problem.

5. The fifth step is to analyze the data. This is done by the investigator, who will analyze the data in terms of the research question. The data analysis is the process of looking at the data and trying to find out what it means.

6. The sixth step is to interpret the results. This is done by the investigator, who will interpret the results in terms of the research question. The interpretation is the process of looking at the results and trying to find out what they mean.

7. The seventh step is to write the report. This is done by the investigator, who will write the report in terms of the research question. The report is a document that describes the results of the investigation.

8. The eighth step is to present the results. This is done by the investigator, who will present the results in terms of the research question. The presentation is the process of showing the results to the research team.

9. The ninth step is to discuss the results. This is done by the investigator, who will discuss the results in terms of the research question. The discussion is the process of talking about the results and trying to find out what they mean.


10. The tenth step is to conclude the investigation. This is done by the investigator, who will conclude the investigation in terms of the research question. The conclusion is the final step in the process of the investigation.

[illegible]

Withholding (CAW-83-87) from Westinghouse dated October 11, 1983, which authorizes the attached Affidavit (AW-78-23); and an Affidavit from Exxon dated October 11, 1983. The affidavits set forth the basis on which the information may be withheld from public disclosure by the Commission and addresses, with specificity, the considerations listed in Paragraph (b) (4) of 10 CFR 2.790 of the Commission's regulations. Accordingly, it is requested that the information which is proprietary to Westinghouse and Exxon be withheld in accordance with 10 CFR 2.790 of the Commission's regulations. Correspondence with respect to the proprietary aspects of the Westinghouse Application For Withholding or the supporting affidavit should refer to CAW-83-87 and should be addressed to R. A. Wieseemann, Manager Regulatory and Legislative Affairs, Westinghouse Electric Corporation, P.O. Box 355, Pittsburgh, PA 15230. The Affidavits are provided as Attachments 2 and 3 for Westinghouse and Exxon, respectively.

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

MPA/pb

cc: John E. Dolan
W. G. Smith, Jr. - Bridgman
R. C. Callen
G. Charnoff
E. R. Swanson, NRC Resident Inspector - Bridgman

1. The purpose of this document is to provide information regarding the activities of the [redacted] in the [redacted] area. This information is being provided for your information and is not to be distributed outside of your office.

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