EXON NUCLEAR COMPANY, Inc.

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February 10, 1982 JCC:012:82

Mr. James R. Miller, Chief Standardization & Special Projects Branch Division of Licensing Office of Nuclear Reactor Regulation U. S. Nuclear Regulatory Commission Washington, D. C. 20555

SUBJECT: Additional Information Regarding the XCOBRA Computer Code Used in BWR Thermal Hydraulic Analyses

Dear Mr. Miller:

In response to an informal request for information received from the NRC staff, enclosed is a description of the XCOBRA computer program used by ENC in performing BWR thermal hydraulic analyses. The XCOBRA computer program is also described in XN-NF-80-19(P), Volume 3, Revision 1.

References to the XCOBRA code user's manual, XN-NF-CC-43, in other ENC topical reports should instead reference the THERMEX topical report (XN-NF-80-19(P), Volume 3, Revision 1). It should also be noted that XCOBRA-IIIC as reported in ENC topical reports XN-75-21 and XN-75-48 is not applicable to BWR analyses.

Exxon Nuclear Company considers the information contained in the subject report to be proprietary. In accordance with the Commission's Regulation 10 CFR 2.790(b), the enclosed Affidavit executed by our Mr. James N. Morgan provides the necessary information to support the withholding of the subject document from public disclosure.

Sincerely.

J. C. Chandler Reload Fuel Licensing

JCC:gf Enclosures As noted

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CC: Mr. J. S. Berggren Mr. J. J. Holonich

AN AFFILIATE OF EXXON CORPORATION

AFFIDAVIT

STATE OF Washington) SS. COUNTY OF Benton)

I, James N. Morgan, being duly sworn, hereby say and depose:

 I am Manager, Licensing and Safety Engineering, for Exxon Nuclear Company, Inc. ("ENC"), and as such I am authorized to execute this Affidavit.

2. I am familiar with ENC's detailed document control system and policies which govern the protection and control of information.

3. I am familiar with the document entitled "XCOBRA Code Description" referred to as "Document." Information contained in this Document has been classified by ENC as proprietary in accordance with the control system and policies established by ENC for the control and protection of information.

4. The Document contains information of a proprietary and confidential nature and is of the type customarily held in confidence by ENC and not made available to the public. Based on my experience, I am aware that other companies regard information of the kind contained in the Document as being proprietary and confidential.

5. The Document has been made available to the United States Nuclear Regulatory Commission in confidence, with the request that the information contained in the Document not be disclosed or divulged. 6. The Document contains information which is vital to a competitive advantage of ENC and would be helpful to competitors of ENC when competing with ENC.

7. The information contained in the Document is considered to be proprietary by ENC because it reveals certain distinguishing aspects of BWR thermal hydraulic design analysis methodology which secure competitive economic advantage to ENC for fuel design optimization and improved mar?etability, and includes information utilized by ENC in its business which affords ENC an opportunity to obtain a competitive advantage over its competitors who do not or may not know or use the information contained in the Document.

8. The disclosure of the proprietary information contained in the Document to a competitor would permit the competitor to reduce its expenditure of money and manpower and to improve its competitive position by giving it extremely valuable insights into ENC's thermal hydraulic design analysis methodology and would result in substantial harm to the competitive position of ENC.

9. The Document contains proprietary information which is held in confidence by ENC and is not available in public sources.

10. In accordance with ENC's policies governing the protection and control of information, proprietary information contained in the Document has been made available, on a limited basis, to others outside ENC only as required and under suitable agreement providing for non-disclosure and limited use of the information.

11. ENC policy requires that proprietary information be kept in a secured file or area and distributed on a need-to-know basis.

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12. This Document provides information which reveals ENC's thermal hydraulic design analysis methodology developed by ENC over the past several years. ENC has invested hundreds of thousands of dollars and many man-years of effort in developing the methods and calculating the results revealed in the Document. Assuming a competitor had available the same background data and incentives as ENC, the competitor might, at a minimum, develop the information for the same expenditure of manpower and money as ENC.

13. Based on my experience in the industry, I do not believe that the background data and incentives of ENC's competitors are sufficiently similar to the corresponding background data and incentives of ENC to reasonably expect such competitors would be in a position to duplicate ENC's proprietary information contained in the Document.

THAT the statements made hereinabove are, to the best of my knowledge, information, and belief, truthful and complete.

FURTHER AFFIANT SAYETH NOT.

James In Margan

SWORN TO AND SUBSCRIBED before me this 11 day of <u>Advance</u>, 1982.

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