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FACIL: 50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana & 05000316
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WARD, G. N. Advanced Nuclear Fuels Corp. (formerly Exxon Nuclear Co., I
RECIP. NAME RECIPIENT AFFILIATION
Document Control Branch (Document Control Desk)

SUBJECT: Forwards proprietary XN-NF-87-31(P), "Steamline Break Analysis for DC Cook Unit 2," addressing assymetric thermal hydraulic & neutronic core characteristics resulting from event. Rept withheld (ref 10CFR2.790).
SEE SUBJECT FILES FOR RPT.

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FUEL ENGINEERING &
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May 29, 1987
GNW:047:87

Donald C. Cook Nuclear Plant No. 2
Docket No. 50-316
License No. DPR-74
TRANSMITTAL OF
STEAMLINE BREAK ANALYSIS FOR D.C. COOK UNIT 2

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Dear Sir:

Subject: Transmittal of Donald C. Cook Unit 2 Steamline Break Analysis, XN-NF-87-31(P)

Reference: XN-NF-84-93(P), "Steamline Break Methodology for PWRs," Exxon Nuclear Co., Richland, Washington, November 1984.

Enclosed are ten copies each of the Advanced Nuclear Fuels Corporation (ANF) technical report XN-NF-87-31(P) entitled "Steamline Break Analysis for D.C. Cook Unit 2," which supports operation of the D.C. Cook Unit 2 Nuclear Plant. At the request of American Electric Power Service Company (AEPSC), this report is being transmitted directly by ANF.

This report provides an analysis of the steamline break event for D.C. Cook Unit 2. The analysis addresses the asymmetric thermal hydraulic and neutronic core characteristics resulting from this accident and is based on the methodology outlined in the Reference. The USNRC Safety Evaluation Report related to the D.C. Cook Unit 2 Amendment No. 82 to the Facility Operating License No. DPR-74 calls for an analysis of the steamline break event.

ANF considers information contained in the enclosed technical report to be proprietary. The Affidavit enclosed provides the necessary information to allow the withholding of the proprietary version from public disclosure as required by 10 CFR 2.790(b).





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

Yours very truly,

G. N. Ward, Manager
Reload Licensing

GNW:llh

Enclosures

cc: Mr. Tom Georgantis (AEPSC)
Mr. D. L. Wiggington (NRC) (w/Enclosures)

# A F F I D A V I T

STATE OF WASHINGTON )
) ss.
COUNTY OF BENTON )

I, H. E. Williamson being duly sworn, hereby say and depose:

1. I am Manager, Licensing and Safety Engineering, for Advanced Nuclear Fuels Corporation ("ANF"), and as such I am authorized to execute this Affidavit.

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

3. I am familiar with the document XN-NF-87-31(P) entitled "Steamline Break Analysis for D.C. Cook Unit 2" referred to as "Document." Information contained in this Document has been classified by ANF as proprietary in accordance with the control system and policies established by ANF 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 ANF 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 proprietary and confidential.

5. The Document has been made available to the U.S. Nuclear Regulatory Commission in confidence, with the request that the information contained in the Document will not be disclosed or divulged.

6. The Document contains information which is vital to a competitive advantage of ANF and would be helpful to competitors of ANF when competing with ANF.

7. The information contained in the Document is considered to be proprietary by ANF because it reveals certain distinguishing aspects of PWR steamline break methodology which secure competitive advantage to ANF for fuel design optimization and marketability, and includes information utilized by ANF in its business which affords ANF 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 PWR steamline break methodology and would result in substantial harm to the competitive position of ANF.

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

10. In accordance with ANF'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 ANF only as required and under suitable agreement providing for non-disclosure and limited use of the information.

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

12. This Document provides information which reveals PWR steamline break methodology developed by ANF over the past several years. ANF has invested many thousands of dollars and many man-months of effort in developing the PWR steamline break methodology revealed in the Document. Assuming a competitor had available the same background data and incentives as ANF, the competitor might, at a minimum, develop the information for the same expenditure of manpower and money as ANF.

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

FURTHER AFFIANT SAYETH NOT.

R. E. Williamson

SWORN TO AND SUBSCRIBED
before me this 29th day of
May, 1987.

Gloria R. Fitzgerald
NOTARY PUBLIC