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       50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana &      05000316  
 AUTH. NAME                      AUTHOR AFFILIATION  
 ALEXICH, M.P.                    Indiana Michigan Power Co. (formerly Indiana & Michigan Ele  
 RECIP. NAME                      RECIPIENT AFFILIATION  
 MURLEY, T.E.                      Document Control Branch (Document Control Desk)

SUBJECT: Forwards proprietary WCAP-12850 & nonproprietary WCAP-12851,  
 "Structural Evaluation of DC Cook Nuclear Plant Units 1 & 2  
 Pressurizer Surge Lines, Considering Effects of Thermal  
 Stratification," per 910130 response to NRC Bulletin 88-011.

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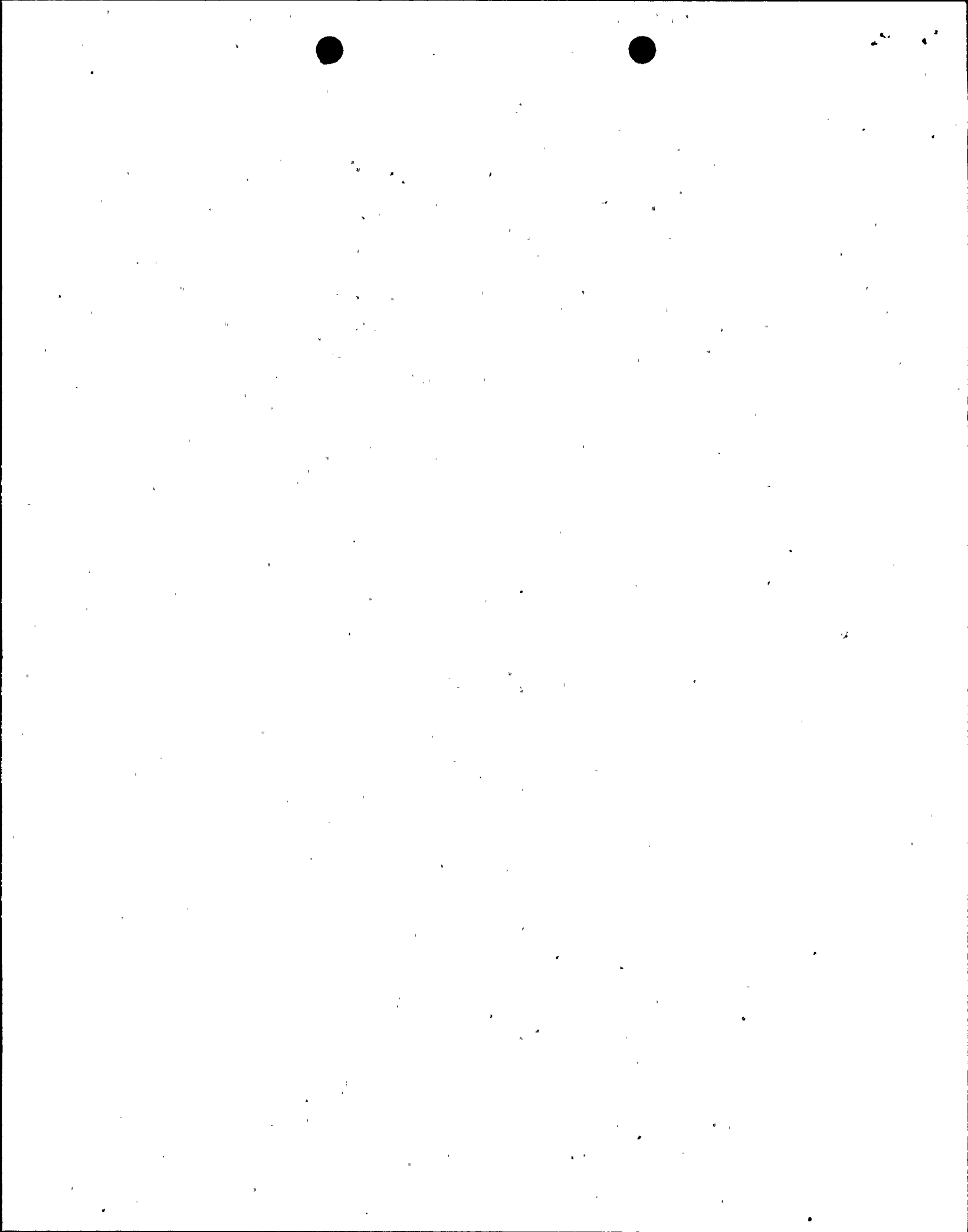
NOTES: *WCAP-12850 P & WCAP-12851 NP sent to Subject Files*

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AEP:NRC:1086B  
Bulletin No. 88-11

Donald C. Cook Nuclear Plant Units 1 and 2  
Docket Nos. 50-315 and 50-316  
License Nos. DPR-58 and DPR-74  
PRESSURIZER SURGE LINE THERMAL STRATIFICATION  
PLANT-SPECIFIC ANALYSIS

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

Attn: T. E. Murley

March 19, 1991

Dear Dr. Murley:

References

- 1) WCAP-12850, "Structural Evaluation of Donald C. Cook Nuclear Plant Units 1 and 2 Pressurizer Surge Lines, Considering the Effects of Thermal Stratification," (proprietary version) dated January 1991
- 2) WCAP-12851, "Structural Evaluation of Donald C. Cook Nuclear Plant Units 1 and 2 Pressurizer Surge Lines, Considering the Effects of Thermal Stratification," (non-proprietary version) dated January 1991

On December 20, 1988, the NRC issued Bulletin No. 88-11, "Pressurizer Surge Line Thermal Stratification." In the bulletin, the NRC requests all addressees to establish and implement a program to confirm pressurizer surge line integrity in view of the occurrence of thermal stratification, and requires them to inform the staff of the actions taken to resolve this issue.

In our letter, AEP:NRC:1086C, dated January 30, 1991, we indicated that we would provide a plant-specific analysis of the pressurizer surge line. This submittal transmits the plant-specific analysis of the pressurizer surge line for Donald C. Cook Nuclear Plant Units 1 and 2.

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PDR ADCK 05000315  
Q PDR

TEBO 1/3 Prop  
3 Non Prop

Change: PDR 4: 1 INP  
NSIC 1 1 INP

To satisfy the requirements and schedules of Bulletin No. 88-11, Cook Nuclear Plant participated in a program for partial resolution of this issue through the Westinghouse Owners Group (WOG). The results of the WOG generic, detailed analysis were submitted to the NRC by Westinghouse in WCAP-12639, dated June 1990. Upon completion of the WOG generic, detailed analysis, we contracted Westinghouse to perform a plant-specific analysis of the Cook Nuclear Plant Units 1 and 2 pressurizer surge lines as required by NRC Bulletin No. 88-11. The results of this plant-specific analysis performed by Westinghouse, as documented in References 1 and 2 (enclosed), have demonstrated that Cook Nuclear Plant Units 1 and 2 will meet the stress limits and cumulative usage factor requirements of the ASME Code for the duration of licensed operation (32 effective full power years). Three copies of References 1 and 2 are enclosed for your review and approval.

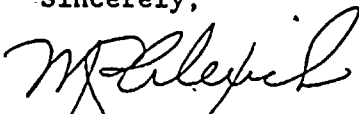
As WCAP-12850 contains information proprietary to Westinghouse Electric Corporation, it is supported by an affidavit signed by Westinghouse, the owner of the information. The enclosed Westinghouse authorization letter, CAW-91-132, contains the affidavit along with the Proprietary Information Notice and the Copyright Notice. The affidavit sets forth the basis on which the information may be withheld from public disclosure by the Commission and addresses with specificity the considerations listed in 10 CFR Section 2.790 paragraph (b)(4) of the Commission's regulations.

Accordingly, it is respectfully requested that the information which is proprietary to Westinghouse be withheld from public disclosure in accordance with 10 CFR Section 2.790 of the Commission's regulations.

Correspondence with respect to the copyrighted or proprietary aspects of the items listed above or the supporting Westinghouse affidavit should reference CAW-91-132 and be addressed to R. P. DiPiazza, Manager of Operating Plant Licensing Support, Westinghouse Electric Corporation, P.O. Box 355, Pittsburgh, PA 15230-0355.

This letter is being submitted under oath pursuant to the provisions of Section 182a, Atomic Energy Act of 1954, as amended.

Sincerely,



M. P. Alexich  
Vice President

ldp

Enclosures

Dr. T. E. Murley

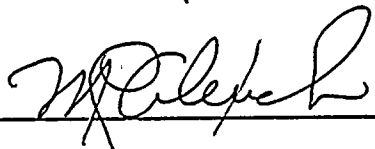
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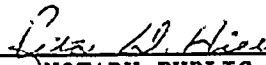
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A. A. Blind - Bridgman - w/o  
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NRC Resident Inspector - Bridgman  
NFEM Section Chief - w/o

STATE OF OHIO)  
COUNTY OF FRANKLIN)

Milton P. Alexich, being duly sworn, deposes and says that he is the Vice President of licensee Indiana Michigan Power Company, that he has read the foregoing Response to Bulletin No. 88-11: Pressurizer Surge Line Thermal Stratification Plant-Specific Analysis and knows the contents thereof; and that said contents are true to the best of his knowledge and belief.

  
\_\_\_\_\_

Subscribed and sworn to before me this 17<sup>th</sup>  
day of March, 1991.

  
\_\_\_\_\_  
NOTARY PUBLIC

RITA D. HILL  
NOTARY PUBLIC, STATE OF OHIO  
MY COMMISSION EXPIRES 6-23-94

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