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 50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana M 05000316  
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 FITZPATRICK, E. Indiana Michigan Power Co. *See Report*  
 RECIP. NAME RECIPIENT AFFILIATION  
 MURLEY, T.E. Document Control Branch (Document Control Desk)

SUBJECT: Forwards "DC Cook Nuclear Plant Individual Plant Units 1 & 2  
 Individual Plant Exam Summary Rept" & "DC Cook Nuclear Plant  
 Units 1 & 2 Individual Plant Exam of External Events Summary  
 Rept," in response to Generic Ltr 88-20.

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AEP:NRC:1082E

Donald C. Cook Nuclear Plant Units 1 and 2  
Docket Nos. 50-315 and 50-316  
License Nos. DPR-58 and DPR-74  
INDIVIDUAL PLANT EXAMINATION SUBMITTAL  
RESPONSE TO GENERIC LETTER 88-20

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

Attn: T. E. Murley  
May 1, 1992

Dear Dr. Murley:

In November 1988, the NRC issued Generic Letter 88-20 to formalize the requirements for conducting an Individual Plant Examination (IPE) for operating licensees. American Electric Power Service Corporation (AEPSC) responded to Generic Letter 88-20 and its Supplement 1 in letter AEP:NRC:1082 dated October 24, 1989. In that submittal, AEPSC committed to perform a Level III probabilistic risk assessment and to include consideration of internal and external events. Subsequently, in June of 1991, Supplement 4 to Generic Letter 88-20 was issued to formally require an Individual Plant Examination of External Events (IPEEE). This letter transmits two reports summarizing the IPE and IPEEE evaluations performed for Donald C. Cook Nuclear Plant Units 1 and 2.

The first attached report summarizes the IPE for internal initiating events. Consistent with the previous commitment, this examination was accomplished with a Level III probabilistic risk assessment and considered Generic Letter 88-20 Supplements 1 and 3. The report format and content are consistent with the requirements of NUREG-1335.

The second attached report summarizes the IPEEE. This examination consisted of a seismic and fire probabilistic risk assessment and an evaluation of "other external events" using the guidance of Generic Letter 88-20 Supplement 4. The report format and content are consistent with the requirements of NUREG-1407.

The analysis of the performance of the hydrogen control system installed at the Cook Nuclear Plant is not included herein. This analysis is to comply with the requirements of 10CFR50.44(c), and is intended to demonstrate the ability of the hydrogen control system

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to mitigate the consequences of the release of hydrogen into the Cook Nuclear Plant containment during postulated degraded core accidents. The MAAP computer code, which is intended to be used in this analysis, has required modifications to properly address unique features of the Cook Nuclear Plant containment. These modifications, in conjunction with the completion activities associated with the two attached reports, resulted in our inability to meet the April 30, 1992 schedule for this analysis despite the dedication of additional resources. The complete 10CFR50.44 analysis will be submitted by July 31, 1992.

This letter is submitted pursuant to 10CFR50.54(f) and, as such, an oath of affirmation is enclosed.

Sincerely,



E. E. Fitzpatrick  
Vice President

tjw

Attachments

cc: D. H. Williams, Jr.  
A. A. Blind - Bridgman  
J. R. Padgett  
G. Charnoff  
NFEM Section Chief  
A. B. Davis - Region III  
NRC Resident Inspector - Bridgman



Dr. T. E. Murley

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bc: S. J. Brewer  
D. H. Malin/K. J. Toth  
M. L. Horvath - Bridgman  
J. B. Kingseed  
D. Modeen, NUMARC - Washington, D. C.  
J. B. Shinnock  
W. G. Smith, Jr.  
J. F. Stang, NRC - Washington, D. C.  
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STATE OF OHIO)  
COUNTY OF FRANKLIN)

Eugene E. Fitzpatrick, 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 Generic Letter No. 88-20 and knows the contents thereof; and that said contents are true to the best of his knowledge and belief.

E E Fitzpatrick

Subscribed and sworn to before me this 1st  
day of May 1992.

Rita D. Hill  
NOTARY PUBLIC

RITA D. HILL  
NOTARY PUBLIC, STATE OF OHIO  
MY COMMISSION EXPIRES 6-28-94

