

May 28, 2004

Mr. Mano K. Nazar  
American Electric Power  
Senior Vice President and Chief Nuclear Officer  
Indiana Michigan Power Company  
Nuclear Generation Group  
500 Circle Drive  
Buchanan, MI 49107

SUBJECT: DONALD C. COOK NUCLEAR PLANT, UNITS 1 AND 2 - FINAL ACCIDENT  
SEQUENCE PRECURSOR ANALYSIS OF AUGUST 2001 OPERATIONAL  
CONDITION

Dear Mr. Nazar:

Enclosed for your information is the final Accident Sequence Precursor (ASP) analysis of an operational conditions which were discovered at the Donald C. Cook Nuclear Plant (D. C. Cook), Units 1 and 2, in August 2001. These conditions were documented in the U. S. Nuclear Regulatory Commission (NRC) Inspection Reports No. 50-315/316/01-17, dated March 21, 2002. We prepared the final analysis based on our review and evaluation of comments from the licensee and the NRC staff on the preliminary analysis of this event. The analysis was clarified as a result of comments. There were also minor changes to the quantitative result, however, the conclusions remain unchanged. Our responses to your specific comments are included in Appendix B to the enclosed report. Our review of your comments employed the criteria contained in the material which accompanied the preliminary analysis. The results of the final ASP analysis indicate that this condition is a precursor [i.e., the importance or change in core damage probability (CCDP)  $>1E-6$ ].

Please contact me at 301-415-1345 if you have any questions regarding the enclosure. We recognize and appreciate the effort expended by you and your staff in reviewing comments on the preliminary analysis.

Due to the potential sensitivity of the information described in the enclosed ASP analysis, the staff has not made this enclosure publicly available.

Sincerely,

*/RA/*

John F. Stang, Senior Project Manager, Section 1  
Project Directorate III  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket Nos. 50-315 and 50-316

Enclosure: ASP Final Analysis (Sensitive - Not for Public Disclosure)

cc w/o encl: See next page

May 28, 2004

Mr. Mano K. Nazar  
American Electric Power  
Senior Vice President and Chief Nuclear Officer  
Indiana Michigan Power Company  
Nuclear Generation Group  
500 Circle Drive  
Buchanan, MI 49107

SUBJECT: DONALD C. COOK NUCLEAR PLANT, UNITS 1 AND 2 - FINAL ACCIDENT  
SEQUENCE PRECURSOR ANALYSIS OF AUGUST 2001 OPERATIONAL  
CONDITION

Dear Mr. Nazar:

Enclosed for your information is the final Accident Sequence Precursor (ASP) analysis of an operational conditions which were discovered at the Donald C. Cook Nuclear Plant (D. C. Cook), Units 1 and 2, in August 2001. These conditions were documented in the U. S. Nuclear Regulatory Commission (NRC) Inspection Reports No. 50-315/316/01-17, dated March 21, 2002. We prepared the final analysis based on our review and evaluation of comments from the licensee and the NRC staff on the preliminary analysis of this event. The analysis was clarified as a result of comments. There were also minor changes to the quantitative result, however, the conclusions remain unchanged. Our responses to your specific comments are included in Appendix B to the enclosed report. Our review of your comments employed the criteria contained in the material which accompanied the preliminary analysis. The results of the final ASP analysis indicate that this condition is a precursor [i.e., the importance or change in core damage probability (CCDP) >1E-6].

Please contact me at 301-415-1345 if you have any questions regarding the enclosure. We recognize and appreciate the effort expended by you and your staff in reviewing comments on the preliminary analysis.

Due to the potential sensitivity of the information described in the enclosed ASP analysis, the staff has not made this enclosure publicly available.

Sincerely,

*/RA/*

John F. Stang, Senior Project Manager, Section 1  
Project Directorate III  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket Nos. 50-315 and 50-316

Enclosure: ASP Final Analysis (Sensitive - Not for Public Disclosure)

cc w/o encl: See next page

**DISTRIBUTION:**

PUBLIC Letter  
LRaghavan  
ACRS

PDIII-1 Reading  
JStang

THarris  
MHarper, RES

EDuncan, RGN III  
OGC

OFFICE	PDIII-1/PM	PDIII-1/LA	PDIII-1/SC
NAME	JStang	THarris	LRaghavan
DATE	04/8/04	04/8/04	04/28/04

ADAMS Accession Nos. ML040820654 (Letter)  
ML040910515 (Final Precursor Analysis)  
ML040820666 (Package)

OFFICIAL RECORD COPY

Donald C. Cook Nuclear Plant, Units 1 and 2

cc:

Regional Administrator, Region III  
U.S. Nuclear Regulatory Commission  
801 Warrenville Road  
Lisle, IL 60532-4351

Attorney General  
Department of Attorney General  
525 West Ottawa Street  
Lansing, MI 48913

Township Supervisor  
Lake Township Hall  
P.O. Box 818  
Bridgman, MI 49106

U.S. Nuclear Regulatory Commission  
Resident Inspector's Office  
7700 Red Arrow Highway  
Stevensville, MI 49127

David W. Jenkins, Esquire  
Indiana Michigan Power Company  
One Cook Place  
Bridgman, MI 49106

Mayor, City of Bridgman  
P.O. Box 366  
Bridgman, MI 49106

Special Assistant to the Governor  
Room 1 - State Capitol  
Lansing, MI 48909

Mr. John A. Zwolinski  
Director, Design Engineering and  
Regulatory Affairs  
Indiana Michigan Power Company  
Nuclear Generation Group 500 Circle Drive  
Buchanan, MI 49107

Michigan Department of Environmental  
Quality  
Waste and Hazardous Materials Div.  
Hazardous Waste & Radiological  
Protection Section  
Nuclear Facilities Unit  
Constitution Hall, Lower-Level North  
525 West Allegan Street  
P. O. Box 30241  
Lansing, MI 48909-7741

David A. Lochbaum  
Nuclear Safety Engineer  
Union of Concerned Scientists  
1707 H Street NW, Suite 600  
Washington, DC 20036

Michael J. Finissi, Plant Manager  
Indiana Michigan Power Company  
Nuclear Generation Group  
One Cook Place  
Bridgman, MI 49106

Mr. Joseph N. Jensen, Site Vice President  
Indiana Michigan Power Company  
Nuclear Generation Group  
One Cook Place  
Bridgman, MI 49106