

*Docket*

October 31, 1988

Docket No. 50-316

Mr. Milton P. Alexich  
Vice President  
Indiana Michigan Power Company  
c/o American Electric Power Service Corporation  
1 Riverside Plaza  
Columbus, Ohio 43216

Dear Mr. Alexich:

SUBJECT: DONALD C. COOK NUCLEAR PLANT, UNIT NO. 2, RESOLUTION OF NUREG-0737  
ITEM II.K.3.31, PLANT-SPECIFIC ANALYSIS TO DEMONSTRATE COMPLIANCE  
WITH 10 CFR 50.46 (TAC NO. 48159)

NRC Generic Letter 83-35, dated November 2, 1983, stated that resolution of NUREG-0737 Item II.K.3.31, "Plant-Specific Analysis to Demonstrate Compliance with 10 CFR 50.46" may be accomplished by a generic analysis. By letters dated July 30, 1986, and April 23, 1987, Indiana Michigan Power Company referenced WCAP-11145, "Westinghouse Small Break LOCA Evaluation Model Generic Study with the NOTRUMP Code" as applicable to D. C. Cook Unit 2. The topical report demonstrates that the small break LOCA calculations in the D. C. Cook Unit 2 updated FSAR are conservative in comparison to the NOTRUMP evaluation model calculations.

The NRC staff review of WCAP-11145 has been completed, and it has been accepted as a licensing basis for small break LOCA analysis. As you have referenced WCAP-11145 for D. C. Cook Unit 2, we conclude, as shown in the enclosed Safety Evaluation, that D. C. Cook Unit 2 meets the requirements of both II.K.3.31 and 10 CFR 50.46. This action completes review of TAC No. 48159.

Sincerely,

*151*  
Wayne Scott, Project Manager  
Project Directorate III-1  
Division of Reactor Projects - III, IV, V  
& Special Projects

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PDR ADOCK 05000316  
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Enclosure:  
Safety Evaluation

cc w/enclosure:  
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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

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Sincerely,

A handwritten signature in cursive script that reads "Wayne Scott".

Wayne Scott, Project Manager  
Project Directorate III-1  
Division of Reactor Projects - III, IV, V  
& Special Projects

Enclosure:  
Safety Evaluation

cc w/enclosure:  
See next page

Mr. Milton Alexich  
Indiana Michigan Power Company

Donald C. Cook Nuclear Plant

cc:

Regional Administrator, Region III  
U.S. Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

Mr. S. Brewer  
American Electric Power  
Service Corporation  
1 Riverside Plaza  
Columbus, Ohio 43216

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

Township Supervisor  
Lake Township Hall  
Post Office Box 818  
Bridgeman, Michigan 49106

W. G. Smith, Jr., Plant Manager  
Donald C. Cook Nuclear Plant  
Post Office Box 458  
Bridgman, Michigan 49106

U.S. Nuclear Regulatory Commission  
Resident Inspectors Office  
7700 Red Arrow Highway  
Stevensville, Michigan 49127

Gerald Charnoff, Esquire  
Shaw, Pittman, Potts and Trowbridge  
2300 N Street, N.W.  
Washington, DC 20037

Mayor, City of Bridgeman  
Post Office Box 366  
Bridgeman, Michigan 49106

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

Nuclear Facilities and Environmental  
Monitoring Section Office  
Division of Radiological Health  
Department of Public Health  
3500 N. Logan Street  
Post Office Box 30035  
Lansing, Michigan 48909