

February 10, 1989

Docket No. 50-316

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

Dear Mr. Alexich:

SUBJECT: ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT -
DONALD C. COOK NUCLEAR PLANT, UNIT 2 (TAC NO. 65677)

Enclosed is a copy of an "Environmental Assessment and Finding of No Significant Impact" for your information. This assessment relates to your application dated August 15, 1988, for an amendment to change the D. C. Cook Unit 2 Technical Specifications to revise the moderator temperature coefficient, shutdown margin, and engineered safeguards actuation requirements to reflect the steamline break analysis performed by Advanced Nuclear Fuels Corporation.

This assessment has been forwarded to the Office of the Federal Register for publication.

Sincerely,

~~original signed by~~

John F. Stang, Project Manager
Project Directorate III-1
Division of Reactor Projects - III, IV, V
& Special Projects

Enclosure:
As stated

cc w/enclosure:
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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555
February 10, 1989

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Sincerely,

A handwritten signature in dark ink, appearing to read "John F. Stang", is written over the typed name.

John F. Stang, Project Manager
Project Directorate III-1
Division of Reactor Projects - III, IV, V
& Special Projects

Enclosure:
As stated

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

UNITED STATES NUCLEAR REGULATORY COMMISSIONINDIANA MICHIGAN POWER COMPANYDONALD C. COOK NUCLEAR PLANT, UNIT NO. 2DOCKET NO. 50-316ENVIRONMENTAL ASSESSMENT AND FINDING OFNO SIGNIFICANT IMPACT

The U. S. Nuclear Regulatory Commission (the Commission) is considering issuance of an amendment to Facility Operating License No. DPR-74 issued to Indiana Michigan Power Company (the licensee) for operation of the Donald C. Cook Nuclear Plant, Unit 2, located at the licensee's site in Berrien County, Michigan.

ENVIRONMENTAL ASSESSMENTIdentification of Proposed Action:

The proposed amendment would revise the provisions in the Technical Specifications (TSs) relating to moderator temperature coefficient, shutdown margin and engineered safeguards actuation requirements to reflect the steamline break analysis performed by Advanced Nuclear Fuels Corporation for D. C. Cook Unit 2.

The proposed action is in accordance with the licensee's application dated August 15, 1988.

The Need for the Proposed Action:

The proposed amendment would revise the moderator temperature coefficient, shutdown margin and engineered safeguards actuation requirements to reflect the steamline break analysis performed by Advance Nuclear Fuels Corporation the D. C. Cook Unit 2. The analysis was performed for the Cycle 6 reload and is bounding for the current Cycle 7 reload. The proposed amendment is needed to change the Technical Specifications to reflect the characteristics of the new fuel for

Cycle 7.

Environmental Impacts of the Proposed Action:

The Commission has completed its evaluation of the proposed amendment. The safety considerations associated with the steamline break analysis and the proposed amendment have been evaluated by the Commission's staff. The staff has concluded that such changes would not adversely affect plant safety. The proposed changes have no adverse effect on the probability or consequences of any accident. No changes are being made in the types or amounts of any radiological effluents that may be released offsite. There is no significant increase in the allowable individual or cumulative occupational radiation exposure. Accordingly, the Commission concludes that this proposed action would result in no significant radiological impact.

With regard to potential nonradiological impacts, the proposed amendment involves systems located within the restricted area, as defined in 10 CFR Part 20. It does not affect nonradiological plant effluents and has no other environmental impact. Therefore, the Commission concludes that there are no significant nonradiological environmental impacts associated with the proposed amendment.

The Notice of Consideration of Issuance of Amendment and Opportunity for Hearing in connection with this action was published in the FEDERAL REGISTER on November 25, 1988 (53 FR 47782). No request for hearing or petition for leave to intervene was filed following this notice.

Alternatives to the Proposed Action:

Since the Commission has concluded that there are no significant environmental effects that would result from the proposed action, any alternative with equal or greater environmental impacts need not be evaluated.

The principal alternative would be to deny the requested amendment. This would not reduce environmental impacts of plant operation and would result in reduced operational flexibility.

Alternative Use of Resources:

This action does not involve the use of any resources not previously considered in the Final Environmental Statement related to the operation of the Donald C. Cook Nuclear Plant, Units 1 and 2, dated August 1973.

Agencies and Persons Consulted:

The Commission's staff reviewed the licensee's request and did not consult other agencies or persons.

FINDING OF NO SIGNIFICANT IMPACT

The Commission has determined not to prepare an environmental impact statement for the proposed license amendment.

Based upon the foregoing environmental assessment, we conclude that the proposed action will not have a significant effect on the quality of the human environment.

For further details with respect to this action, see the application for amendment dated August 15, 1988, which is available for public inspection at the Commission's Public Document Room, 2120 L Street, NW., Washington, DC, and at the Maude Preston Palenske Memorial Library, 500 Market Street, St. Joseph, Michigan 49085

Dated at Rockville, Maryland this 110th day of February , 1989.

FOR THE NUCLEAR REGULATORY COMMISSION

Theodore R. Quay

Theodore R. Quay, Acting Director
Project Directorate III-1
Division of Reactor Projects - III, IV, V
and Special Projects