

May 29, 1987

Docket Nos. 50-315  
and 50-316

Mr. John Dolan, Vice President  
Indiana and Michigan Electric Company  
c/o American Electric Power Service Corporation  
1 Riverside Plaza  
Columbus, Ohio 43216

Dear Mr. Dolan:

The Commission has issued the enclosed Amendment No. 110 to Facility Operating License No. DPR-58 and Amendment No. 93 to Facility Operating License No. DPR-74 for the Donald C. Cook Nuclear Plant, Unit Nos. 1 and 2. The amendments consist of changes to the Technical Specifications in response to your application dated February 25, 1987.

These amendments revise the Technical Specifications to allow the ice condenser lower inlet door surveillance requirements to also be done in Modes 3 and 4.

A copy of the Safety Evaluation is also enclosed. The notice of issuance will be included in the Commission's next bi-weekly Federal Register notice.

Sincerely,

*Dominic C. Di Lanni*  
David L. Wigginton, Project Manager  
Project Directorate III-3  
Division of Reactor Projects

Enclosures:

- 1. Amendment No.110 to DPR-58
- 2. Amendment No. 93 to DPR-74
- 3. Safety Evaluation

cc w/enclosures:  
See next page

Office: LA/PDIII-3  
Surname: PKneitzer  
Date: 05/14/87

*PSB*  
SCraig  
05/28/87

OGG  
Dr. Keenan  
05/27/87

*DW*  
PD/PDIII-3  
DWigginton  
05/14/87

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Mr. John Dolan  
Indiana and Michigan Electric Company

Donald C. Cook Nuclear Plant

cc:

Mr. M. P. Alexich  
Vice President  
Nuclear Operations  
American Electric Power Service  
Corporation  
1 Riverside Plaza  
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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

INDIANA AND MICHIGAN ELECTRIC COMPANY

DOCKET NO. 50-315

DONALD C. COOK NUCLEAR PLANT, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 110  
License No. DPR-58

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Indiana and Michigan Electric Company (the licensee) dated February 25, 1987 complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public;  
and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

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2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-58 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 110, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. The Technical Specification is effective within 60 days of the date of issuance.
4. This license amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Dominic C. DiIanni, Acting Project Director  
Project Directorate III-3  
Division of Reactor Projects

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: May 29, 1987



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

INDIANA AND MICHIGAN ELECTRIC COMPANY

DOCKET NO. 50-316

DONALD C. COOK NUCLEAR PLANT, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 93  
License No. DPR-74

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Indiana and Michigan Electric Company (the licensee) dated February 25, 1987 complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public;  
and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-74 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 93 , are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. The Technical Specification is effective within 60 days of the date of issuance.
4. This license amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Dominic C. DiIanni, Acting Project Director  
Project Directorate III-3  
Division of Reactor Projects

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: May 29, 1987

ATTACHMENT TO LICENSE AMENDMENTS

AMENDMENT NO.110 FACILITY OPERATING LICENSE NO. DPR-58

AMENDMENT NO 93 FACILITY OPERATING LICENSE NO. DPR-74

DOCKET NOS.50-315 AND 50-316

Revise Appendix A Technical Specifications by removing the pages identified below and inserting the enclosed pages. The revised pages are identified by amendment number and contain marginal lines indicating the area of change.

REMOVE

INSERT

Unit 1

3/4 6-30

3/4 6-30

Unit 2

3/4 6-39

3/4 6-39

CONTAINMENT SYSTEMS

ICE CONDENSER DOORS

LIMITING CONDITION FOR OPERATION

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3.6.5.3 The ice condenser inlet doors, intermediate deck doors, and top deck doors shall be closed and OPERABLE.

APPLICABILITY: MODES 1, 2, 3 and 4.

ACTION:

With one or more ice condenser doors open or otherwise inoperable, POWER OPERATION may continue for up to 14 days provided the ice bed temperature is monitored at least once per 4 hours and the maximum ice bed temperature is maintained  $\leq 27^{\circ}\text{F}$ ; otherwise, restore the doors to their closed positions or OPERABLE status (as applicable) within 48 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

SURVEILLANCE REQUIREMENTS

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4.6.5.3.1 Inlet Doors - Ice condenser inlet doors shall be:

- a. Continuously monitored and determined closed by the inlet door position monitoring system, and
- b. Demonstrated OPERABLE during shutdown at least once per 9 months by:
  1. Verifying that the torque required to initially open each door is  $\leq 675$  inch pounds.
  2. Verifying that opening of each door is not impaired by ice, frost or debris.
  3. Testing a sample of at least 50% of the doors and verifying that the torque required to open each door is less than 195 inch-pounds when the door is 40 degrees open. This torque is defined as the "door opening torque" and is equal to the nominal door torque plus a frictional

## CONTAINMENT SYSTEMS

### ICE CONDENSER DOORS

#### LIMITING CONDITION FOR OPERATION

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APPLICABILITY: MODES 1, 2, 3 and 4.

#### ACTION:

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#### SURVEILLANCE REQUIREMENTS

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  1. Verifying that the torque required to initially open each door is  $\leq 675$  inch pounds.
  2. Verifying that opening of each door is not impaired by ice, frost or debris.
  3. Testing a sample of at least 50% of the doors and verifying that the torque required to open each door is less than 195 inch-pounds when the door is 40 degrees open. This torque is defined as the "door opening torque" and is equal to the nominal door torque plus a frictional torque component. The doors selected for determination of the "door opening torque" shall be selected to ensure that all doors are tested at least once during two test intervals.



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 110 TO FACILITY OPERATING LICENSE NO. DPR-58  
AND AMENDMENT NO. 93 TO FACILITY OPERATING LICENSE NO. DPR-74

INDIANA AND MICHIGAN ELECTRIC COMPANY

DONALD C. COOK NUCLEAR PLANT, UNIT NOS. 1 AND 2

DOCKET NOS. 50-315 AND 50-316

INTRODUCTION

By letter dated February 25, 1987, the Indiana and Michigan Electric Company (the licensee), submitted a proposed change to the Technical Specifications for the Donald C. Cook Nuclear Plant, Unit Nos. 1 and 2. The proposed change would delete reference to shutdown modes for testing the ice condenser lower inlet doors and would, in effect, add Modes 3 and 4 (hot standby and hot shutdown, respectively) to the surveillance requirements allowable test modes. The request relates to License Amendments 83 and 64 for Units 1 and 2 which were issued on April 1, 1985 and June 18, 1984 respectively.

EVALUATION

The Westinghouse Standard Technical Specifications and the original standard technical specifications for the Donald C. Cook Nuclear Plant, Unit Nos. 1 and 2, contained a surveillance requirement to test the ice condenser doors periodically "during shutdown." There was no definition at this technical specification of what constitutes shutdown and by practice, the licensee performed the surveillance during Modes 5 and 6 (cold shutdown and refueling). In their support of the application for license amendments which resulted in Amendments 83 and 64, the licensee requested a more precise definition of this shutdown requirement to be narrowly defined as Modes 5 and 6. This was not an NRC requirement, but was found acceptable on behalf of the licensee's request.

The licensee now finds the imposition of Modes 5 and 6 to be too restrictive and proposes to remove reference to the modes. This would allow the surveillances to be done in Modes 3, 4, 5, or 6, consistent with the Standard Technical Specifications and original standard Cook technical specifications. The difference between Modes 3 and 4 and Modes 5 and 6 is the radiation levels at the inlet doors; the greater radiation occurring most often in Modes 3 and 4. The licensee has demonstrated, however, an acceptable concern for occupational doses and continues to implement the concept of As-Low-As-Is-Reasonably-Achievable (ALARA) to keep occupational doses low. On this basis and in keeping with the provisions

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also considered in the Standard Technical Specifications, the staff finds the proposed changes acceptable.

#### ENVIRONMENTAL CONSIDERATION

These amendments involve a change in the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 or a change in surveillance requirements. The staff has determined that the amendments involve no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously published a proposed finding that these amendments involve no significant hazards consideration and there has been no public comment on such finding. Accordingly, these amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR §51.22(c)(9). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of these amendments.

#### CONCLUSION

The staff has concluded, based on the considerations discussed above, that (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such activities will be conducted in compliance with the Commission's regulations, and the issuance of the amendments will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: D. Wigginton

Date: May 29, 1987

Distribution Copies:

Docket Files

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PDIII-3 r/f

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