

October 24, 1990

Docket Nos. 50-315  
and 50-316

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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: AMENDMENT NOS.150 AND 136 TO FACILITY OPERATING LICENSE NOS. DPR-58  
AND DPR-74: (TAC NOS. 73274/73275)

The Commission has issued the enclosed Amendment No.150 to Facility Operating License No. DPR-58 and Amendment No.136 to Facility Operating License No. DPR-74 for the Donald C. Cook Nuclear Plant, Units Nos. 1 and 2. The amendments consist of changes to the Technical Specifications in response to your application dated June 25, 1990 (AEP:NRC:1039B) as modified August 14, 1990 (AEP:NRC:1039C).

These amendments allow the use posted, roped-off areas with flashing lights in lieu of locked doors for control of entry into high radiation areas under certain conditions.

A copy of our related Safety Evaluation is also enclosed. Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,

/s/

Timothy G. Colburn, Senior Project Manager  
Project Directorate III-1  
Division of Reactor Projects - III,  
IV, V & Special Projects  
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No.150 to DPR-58
2. Amendment No.136 to DPR-74
3. Safety Evaluation

cc w/enclosures:

See next page

LA/PD31:DRSP  
SMeador  
9/28/90 *ADM*

*Rec*  
PM/PD31:DRSP  
TColburn  
9/27/90

*TBC for*  
D/PD31:DRSP  
RPIerson  
9/27/90

*PRAB*  
LCuningham  
10/11/90

*OGC*  
*CPW*  
10/9/90

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555

October 24, 1990

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and 50-316

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Indiana Michigan Power Company  
c/o American Electric Power Service Corporation  
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A copy of our related Safety Evaluation is also enclosed. Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,

A handwritten signature in cursive script that reads "Timothy G. Colburn".

Timothy G. Colburn, Senior Project Manager  
Project Directorate III-1  
Division of Reactor Projects - III,  
IV, V & Special Projects  
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 150 to DPR-58
2. Amendment No. 136 to DPR-74
3. Safety Evaluation

cc w/enclosures:  
See next page

Mr. Milton Alexich  
Indiana Michigan Power Company

Donald C. Cook Nuclear Plant

cc:

Regional Administrator, Region III  
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Service Corporation  
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Township Supervisor  
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Bridgman, Michigan 49106

Al Blind, Plant Manager  
Donald C. Cook Nuclear Plant  
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Bridgman, Michigan 49106

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

Gerald Charnoff, Esquire  
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Washington, DC 20037

Mayor, City of Bridgman  
Post Office Box 366  
Bridgman, 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 COMMISSION  
WASHINGTON, D. C. 20555

INDIANA MICHIGAN POWER COMPANY

DOCKET NO. 50-315

DONALD C. COOK NUCLEAR PLANT, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 150  
License No. DPR-58

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Indiana Michigan Power Company (the licensee) dated June 25, 1990 as amended August 14, 1990, 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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P PNU

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:

Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No.150 , are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Handwritten signature of Robert C. Pierson in cursive, followed by the initials "RP" in a large, bold font.

Robert C. Pierson, Director  
Project Directorate III-1  
Division of Reactor Projects - III,  
IV, V & Special Projects  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: October 24, 1990



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

INDIANA MICHIGAN POWER COMPANY

DOCKET NO. 50-316

DONALD C. COOK NUCLEAR PLANT, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 136  
License No. DPR-74

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Indiana Michigan Power Company (the licensee) dated June 25, 1990 as amended August 14, 1990, 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:

Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 136, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

*Dominic C. W. Jammi*  
Robert Pierson, Director  
Project Directorate III-1  
Division of Reactor Projects - III,  
IV, V & Special Projects  
Office of Nuclear Reactor Regulation

*RP*

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: October 24, 1990

ATTACHMENT TO LICENSE AMENDMENTS

AMENDMENT NO. 150 TO FACILITY OPERATING LICENSE NO. DPR-58

AMENDMENT NO. 136 TO FACILITY OPERATING LICENSE NO. DPR-74

DOCKETS NOS. 50-315 AND 50-316

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

REMOVE

INSERT

Unit 1 6-21

6-21

Unit 2 6-21

6-21

## 6.11 RADIATION PROTECTION PROGRAM

Procedures for personnel radiation protection shall be prepared consistent with the requirements of 10 CFR Part 20 and shall be approved, maintained and adhered to for all operations involving personnel radiation exposure.

## 6.12 HIGH RADIATION AREA

6.12.1 In lieu of the "control device" or "alarm signal" required by paragraph 20.203(c)(2) of 10 CFR 20, each high radiation area in which the intensity of radiation is 1000 mrem/hr or less shall be barricaded and conspicuously posted as a high radiation area and entrance thereto shall be controlled by requiring issuance of a Radiation Work Permit\*. Any individual or group of individuals permitted to enter such areas shall be provided with or accompanied by one or more of the following:

- a. A radiation monitoring device which continuously indicates the radiation dose rate in the area.
- b. A radiation monitoring device which continuously integrates the radiation dose rate in the area and alarms when a preset integrated dose is received. Entry into such areas with this monitoring device may be made after the dose rate level in the area has been established and personnel have been made aware of it.
- c. An individual qualified in radiation protection procedures who is equipped with a radiation dose rate monitoring device. This individual shall be responsible for providing positive control over the activities within the area and shall perform periodic radiation surveillance at the frequency specified by the facility Health Physicist in the Radiation Work Permit.

6.12.2 The requirements of 6.12.1 shall also apply to each high radiation area in which the intensity of radiation is greater than 1000 mrem/hr. When possible, locked doors shall be provided to prevent unauthorized entry into such areas, and the keys shall be maintained under the administrative control of the Shift Supervisor on duty and/or the Plant Health Physicist (Plant Radiation Protection Supervisor). Doors shall remain locked except during periods of access by personnel under an approved RWP which shall specify the dose rate levels in the immediate work areas. In the event that it is not possible or practicable to provide locked doors due to area size or configuration, the area shall be roped off, conspicuously posted and a flashing light shall be activated as a warning device.

\*Health Physics (Radiation Protection) personnel shall be exempt from the RWP issuance requirement during the performance of their assigned radiation protection duties, provided they comply with approved radiation protection procedures for entry into high radiation areas.

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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 150 TO FACILITY OPERATING LICENSE NO. DPR-58  
AND AMENDMENT NO. 136 TO FACILITY OPERATING LICENSE NO. DPR-74  
INDIANA MICHIGAN POWER COMPANY  
DONALD C. COOK NUCLEAR PLANT, UNITS NOS. 1 AND 2  
DOCKETS NOS. 50-315 AND 50-316

1.0 INTRODUCTION

By letter dated June 25, 1990, as amended August 14, 1990, the Indiana Michigan Power Company, requested an amendment to the Technical Specification 6.12.2 for the Donald C. Cook Nuclear Plant, Unit Nos. 1 and 2 to provide an alternative method of control of access to high radiation areas in which the dose rate is greater than 1,000 mrem/hr.

2.0 EVALUATION

Technical Specification (TS) 6.12.2 for Donald C. Cook Nuclear Plant, Unit Nos. 1 and 2 currently requires that locked doors be provided to prevent unauthorized entry into high radiation areas in which the dose rate is greater than 1,000 mrem/hr. These doors are to remain locked except during periods of access by personnel under an approved radiation work permit which shall specify the dose rate levels in the immediate work areas. Because there are some areas where it is not practicable to provide a locked door, the licensee is requesting approval of an alternative method of controlling access to the high radiation area. That alternative method is to substitute posted, roped-off areas and flashing lights for locked doors in situations in which it is not possible or practicable to provide locked doors because of area size or configuration.

The licensee in proposing the TS changes has followed staff guidance contained in NRC Information Notice 88-79, "Misuse of Flashing Lights for High Radiation Area Controls." They have also committed to only apply this flexibility for areas where a locked door is not a viable solution for controlling access to high radiation areas.

The staff has evaluated the licensee's proposed alternative and has determined that this requested alternative is consistent with the provisions of 10 CFR 20.203(c)(5) and of the current standard technical specifications; therefore, the proposed change is acceptable.

### 3.0 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. We have 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 issued 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 amendment.

### 4.0 CONCLUSION

We have 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.

Date: October 24, 1990

Principal Contributor: John Buchanan  
Tim Colburn