

November 7, 1975

Indiana and Michigan Electric Company
Indiana and Michigan Power Company
ATTN: Mr. John A. Tillinghast
Vice President
P. O. Box 18
Bowling Green Station
New York, New York 10004

Gentlemen:

In response to your request of September 24, 1975, the Commission has issued Amendment No. 8 to Facility Operating License DPR-58 to change certain of the Technical Specifications, Appendix A of DPR-58. A signed copy of the amendment is enclosed. A copy of a related notice, which has been forwarded to the Office of the Federal Register for filing and publication is also enclosed. This change is effective as of the date of this letter.

Amendment No. 8 to DPR-58 consists of Change No. 8 to the Technical Specifications. The specifications that have been changed are listed in Change No. 8.

Your application requested certain changes to Technical Specifications 4.1.2.5b, 4.1.2.6b, and 4.5.4.1a. The changes to 4.1.2.5b and 4.1.2.6b would have changed the wording to read "Verifying that the sump develops at least 93% of the discharge pressure for the applicable flow rate as determined from the Manufacturer's Pump Performance Curve." The basis for the change was, in each case, that such a specification would adequately demonstrate pump operability. The staff concurs in this judgement.

The staff has been in the process of refining the Westinghouse Standard Technical Specifications. The most recent version of the Standard Technical Specifications requires surveillance testing of the boric acid transfer pumps that will result in the same level of adequacy in demonstrating pump operability as that provided by the existing Technical Specifications and by those you have proposed. We have discussed with your staff the desirability of substituting the present version of the applicable Standard Technical Specifications for those you proposed in your September 24, 1975 letter. Your staff agreed to the substitution.

PIL ep-1

OFFICE >						
SURNAME >						
DATE >						

Indiana and Michigan Electric Company -2-
 Indiana and Michigan Power Company

In addition, minor changes have been made to the applicable Limiting Conditions for Operation to make them consistent with the surveillance requirements and with each other. Your staff has also agreed to these changes.

We have also reviewed your proposed change to surveillance specification 4.5.4.1a and have concluded that the change is unnecessary and does not conform to the revised version of the Standard Technical Specifications.

On the basis of the above, Change No. 8 to the D. C. Cook Unit 1 Technical Specifications consists of revising Specifications 3/4.1.2.1, 3/4.1.2.2, 3/4.1.2.5, and 3/4.1.2.6 to conform with the Standard Technical Specifications being applied to Westinghouse plants currently being licensed.

The staff has concluded that Change No. 8 will not present any danger to the health and safety of the public nor will it result in (i) any significant increase in the probability of an accident or (ii) a significant increase in the consequences of an accident or (iii) a significant decrease in a safety margin.

Sincerely,
 Original signed by
 D. B. Vassallo

Karl Kniel, Chief
 Light Water Reactors Branch 2-2
 Division of Reactor Licensing

Enclosures:

1. Amendment 8 to DPR-58
2. Federal Register Notice

ccs:

Listed on page 3

OFFICE	LWR 2-2	LWR 2-2	OAB	OELD		
SURNAME	RBenedict:ng	KKniel	JMMcGough	G. Lewis		
DATE	11/4/75	11/7/75	11/4/75	11/7/75		

Indiana and Michigan Electric Company
Indiana and Michigan Power Company

- 3 -

ccs: w/enclosure
Mr. Robert Hunter
Vice President
American Electric Power Service Corporation
2 Broadway
New York, New York 10004

Gerald Charnoff, Esquire
Shaw, Pittman, Potts & Trowbridge
910 17th Street, N. W.
Washington, D. C. 20006

Businessmen for the Public Interest
Suite 1001
109 North Dearborn Street
Chicago, Illinois 60602

Mr. D. John Beck
Division of Intergovernmental Relations
Executive Office of the Governor
Lewis Cass Building
Lansing, Michigan 48913

Mr. Oral H. Hurt, Director
Bureau of Engineering
State Board of Health
1330 West Michigan Street
Indianapolis, Indiana 46206

Mr. Gary Williams
Federal Activities Branch
U.S. Environmental Protection Agency
1 N. Wacker Drive
Chicago, Illinois 60606

DISTRIBUTION:

NRC PDR
Local PDR
Docket File
LWR 2-2 File
OELD
I&E (3)
RVollmer
MJinks (2)
RBenedict
MService
ACRS (16)
BScharf (15)
KGoller
JRBuchanan, ORNL
TBAbernathy, DTIE
PCota, EP
MSlater, EP
RSilver, OR

OFFICE ➤						
SURNAME ➤						
DATE ➤						

UNITED STATES

NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555

Docket No. 50-315

November 7, 1975

Indiana and Michigan Electric Company
Indiana and Michigan Power Company
ATTN: Mr. John A. Tillinghast
Vice President
P. O. Box 18
Bowling Green Station
New York, New York 10004

Gentlemen:

In response to your request of September 24, 1975, the Commission has issued Amendment No. 8 to Facility Operating License DPR-58 to change certain of the Technical Specifications, Appendix A of DPR-58. A signed copy of the amendment is enclosed. A copy of a related notice, which has been forwarded to the Office of the Federal Register for filing and publication is also enclosed. This change is effective as of the date of this letter.

Amendment No. 8 to DPR-58 consists of Change No. 8 to the Technical Specifications. The specifications that have been changed are listed in Change No. 8.

Your application requested certain changes to Technical Specifications 4.1.2.5b, 4.1.2.6b, and 4.5.4.1a. The changes to 4.1.2.5b and 4.1.2.6b would have changed the wording to read "Verifying that the sump develops at least 93% of the discharge pressure for the applicable flow rate as determined from the Manufacturer's Pump Performance Curve." The basis for the change was, in each case, that such a specification would adequately demonstrate pump operability. The staff concurs in this judgement.

The staff has been in the process of refining the Westinghouse Standard Technical Specifications. The most recent version of the Standard Technical Specifications requires surveillance testing of the boric acid transfer pumps that will result in the same level of adequacy in demonstrating pump operability as that provided by the existing Technical Specifications and by those you have proposed. We have discussed with your staff the desirability of substituting the present version of the applicable Standard Technical Specifications for those you proposed in your September 24, 1975 letter. Your staff agreed to the substitution.

Indiana and Michigan Electric Company -2-
Indiana and Michigan Power Company

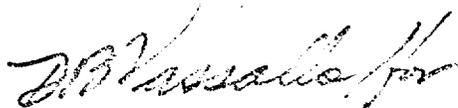
In addition, minor changes have been made to the applicable Limiting Conditions for Operation to make them consistent with the surveillance requirements and with each other. Your staff has also agreed to these changes.

We have also reviewed your proposed change to surveillance specification 4.5.4.1a and have concluded that the change is unnecessary and does not conform to the revised version of the Standard Technical Specifications.

On the basis of the above, Change No. 8 to the D. C. Cook Unit 1 Technical Specifications consists of revising Specifications 3/4.1.2.1, 3/4.1.2.2, 3/4.1.2.5, and 3/4.1.2.6 to conform with the Standard Technical Specifications being applied to Westinghouse plants currently being licensed.

The staff has concluded that Change No. 8 will not present any danger to the health and safety of the public nor will it result in (i) any significant increase in the probability of an accident or (ii) a significant increase in the consequences of an accident or (iii) a significant decrease in a safety margin.

Sincerely,



Karl Kniel, Chief
Light Water Reactors Branch 2-2
Division of Reactor Licensing

Enclosures:

1. Amendment 8 to DPR-58
2. Federal Register Notice

ccs:

Listed on page 3

Indiana and Michigan Electric Company
Indiana and Michigan Power Company

- 3 -

ccs: w/enclosure
Mr. Robert Hunter
Vice President
American Electric Power Service Corporation
2 Broadway
New York, New York 10004

Gerald Charnoff, Esquire
Shaw, Pittman, Potts & Trowbridge
910 17th Street, N. W.
Washington, D. C. 20006

Businessmen for the Public Interest
Suite 1001
109 North Dearborn Street
Chicago, Illinois 60602

Mr. D. John Beck
Division of Intergovernmental Relations
Executive Office of the Governor
Lewis Cass Building
Lansing, Michigan 48913

Mr. Oral H. Hurt, Director
Bureau of Engineering
State Board of Health
1330 West Michigan Street
Indianapolis, Indiana 46206

Mr. Gary Williams
Federal Activities Branch
U.S. Environmental Protection Agency
1 N. Wacker Drive
Chicago, Illinois 60606

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

INDIANA AND MICHIGAN ELECTRIC COMPANY

INDIANA AND MICHIGAN POWER COMPANY

DOCKET NO. 50-315

DONALD C. COOK NUCLEAR PLANT, UNIT 1

FACILITY OPERATING LICENSE

Amendment No. 8
License No. DPR-58

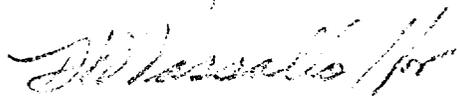
1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Indiana and Michigan Electric Company and Indiana and Michigan Power Company (the licensees) dated September 24, 1975, complies with the standards and requirements of the Atomic Energy Act of 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; and
 - 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.
2. Accordingly, the license is amended by a change to the Technical Specifications as indicated in the attachment to this license amendment and Paragraph 2.C(2) of Facility 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, are hereby incorporated in the license. The licensees shall operate the facility in accordance with the Technical Specifications, as revised by issued changes thereto through Change No. 8."

3. This license amendment is effective as of November 7, 1975.

FOR THE NUCLEAR REGULATORY COMMISSION:



Karl Kniel, Chief
Light Water Reactors Branch 2-2
Division of Reactor Licensing

Attachment:
Change No. 8 to the
Technical Specifications

Date of Issuance: November 7, 1975

CHANGE NO. 8

to

TECHNICAL SPECIFICATIONS

DPR-58

1. Change 3.1.2.1 and 4.1.2.1 to read as follows:

3.1.2.1 As a minimum, one of the following boron injection flow paths shall be OPERABLE:

- a. A flow path from the boric acid tanks via a boric acid transfer pump to a charging pump to the Reactor Coolant System if only the boric acid storage tank in Specification 3.1.2.7a is OPERABLE, or
- b. The flow path from the refueling water storage tank via a charging pump to the Reactor Coolant System if only the refueling water storage tank in Specification 3.1.2.7b is OPERABLE.

APPLICABILITY: MODES 5 and 6

ACTION:

With none of the above flow paths OPERABLE, suspend all operations involving CORE ALTERATIONS or positive reactivity changes until at least one injection path is restored to OPERABLE status.

4.1.2.1 At least one of the above required flow paths shall be demonstrated OPERABLE:

- a. At least once per 7 days by:
 1. Cycling each testable power operated or automatic valve in the flow path through at least one complete cycle of full travel.
 2. Verifying that the temperature of the heat traced portion of the flow path is $\geq 145^{\circ}\text{F}$ when a flow path from the boric acid tanks is used.
- b. At least once per 31 days by verifying that each valve (manual, power operated or automatic) in the flow path that is not locked, sealed, or otherwise secured in position, is in its correct position.

2. Change 3.1.2.2 and 4.1.2.2 to read as follows:

3.1.2.2 Each of the following boron injection flow paths shall be OPERABLE:

- a. The flow path from the boric acid tanks via a boric acid transfer pump and a charging pump to the Reactor Coolant System, and
- b. The flow path from the refueling water storage tank via a charging pump to the Reactor Coolant System.

APPLICABILITY: MODES 1, 2, 3, and 4

ACTION:

- a. With the flow path from the boric acid tanks inoperable, restore the inoperable flow path to OPERABLE status within 48 hours or be in at least HOT STANDBY and borated to a SHUTDOWN MARGIN equivalent to at least 1% $\Delta k/k$ at 200°F within the next 6 hours; restore the flow path to OPERABLE status within the next 7 days or be in COLD SHUTDOWN within the next 30 hours.
- b. With the flow path from the refueling water storage tank inoperable, restore the flow path to OPERABLE status within 1 hour or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN WITHIN the following 30 hours.

4.1.2.2 Each of the above required flow paths shall be demonstrated OPERABLE:

- a. At least once per 7 days by:
 1. Cycling each testable power operated or automatic valve in the flow path through at least one complete cycle of full travel.
 2. Verifying that the temperature of the heat traced portion of the flow path from the boric acid tanks is $\geq 145^\circ\text{F}$.
- b. At least once per 31 days by verifying that each valve (manual, power operated, or automatic) in the flow path that is not locked, sealed, or otherwise secured in position is in its correct position.

- c. At least once per 18 months during shutdown by cycling each power operated (excluding automatic) valve in the flow path that is not testable during plant operation, through at least one complete cycle of full travel.

3. Change 3.1.2.5 and 4.1.2.5 to read as follows:

3.1.2.5 At least one boric acid transfer pump shall be OPERABLE and capable of being powered from an OPERABLE emergency bus if only the flow path through the boric acid transfer pump of Specification 3.1.2.1a is OPERABLE.

APPLICABILITY: MODES 5 and 6

ACTION:

With no boric acid transfer pump OPERABLE as required to complete the flow path of Specification 3.1.2.1a, suspend all operations involving CORE ALTERATIONS or positive reactivity changes until at least one boric acid transfer pump is restored to OPERABLE status.

4.1.2.5 At least the above required boric acid transfer pump shall be demonstrated OPERABLE at least once per 7 days by:

- a. Starting (unless already operating) the pump from the control room,
- b. Verifying, that on recirculation flow, the pump develops a discharge pressure of ≥ 110 psig,
- c. Verifying pump operation for at least 15 minutes, and
- d. Verifying that the pump is aligned to receive electrical power from an OPERABLE emergency bus.

4. Change 3.1.2.6 and 4.1.2.6 to read as follows:

3.1.2.6 At least one boric acid transfer pump in the boron injection flow path required OPERABLE pursuant to Specification 3.1.2.2a shall be OPERABLE and capable of being powered from an OPERABLE emergency bus if the flow path through the boric acid pump in Specification 3.1.2.2a is OPERABLE.

APPLICABILITY: MODES 1, 2, 3, and 4

ACTION:

With no boric acid transfer pump OPERABLE, restore at least one boric acid transfer pump to OPERABLE STATUS within 48 hours or be in at least HOT STANDBY within the next 6 hours and borated to a SHUTDOWN MARGIN equivalent to 1% $\Delta k/k$ at 200°F; restore at least one boric acid transfer pump to OPERABLE status within the next 7 days or be in COLD SHUTDOWN within the next 30 hours.

4.1.2.6 At least the above required boric acid pump shall be demonstrated OPERABLE at least once per 7 days by:

- a. Starting (unless already operating) the pump from the control room,
- b. Verifying, that on recirculation flow, the pump develops a discharge pressure of ≥ 110 psig,
- c. Verifying pump operation for at least 15 minutes, and
- d. Verifying that the pump is aligned to receive electrical power from an OPERABLE emergency bus.

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-315

INDIANA AND MICHIGAN ELECTRIC COMPANY

INDIANA AND MICHIGAN POWER COMPANY

DONALD C. COOK NUCLEAR PLANT UNIT 1

NOTICE OF ISSUANCE OF AMENDMENT TO
FACILITY OPERATING LICENSE

Notice is hereby given that the U.S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 8 to Facility Operating License No. DPR-58 issued to Indiana and Michigan Electric Company and Indiana and Michigan Power Company. The amendment revises the Technical Specifications for operation of the Donald C. Cook Nuclear Plant Unit 1 located in Berrien County, Michigan, and is effective as of November 7, 1975.

The amendment changes certain Technical Specifications to update the surveillance requirements of the boric acid injection system to be consistent with the requirements of other plants now being licensed.

The application for the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings required by the Act and the Commission's rules and regulations in 10 CFR Chapter I. These findings are set forth in the license amendment. Prior public notice of this amendment is not required because the amendment does not involve a significant hazards consideration.

For further details with respect to this action, see (1) the application for amendment dated September 24, 1975, and (2) Amendment No. 8 to License No. DPR-58 with Change No. 8. Both of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, NW, Washington, D. C., and at the St. Joseph Public Library, 500 Market Street, St. Joseph, Michigan 49085. A copy of item (2) may be obtained upon request addressed to the U.S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Reactor Licensing.

Dated at Bethesda, Maryland this 7 day of November 1975.

FOR THE NUCLEAR REGULATORY COMMISSION:

Original signed by
K. Kniel

Karl Kniel, Chief
Light Water Reactors Branch 2-2
Division of Reactor Licensing