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Docket No. 50-315

Mr. John Dolan, Vice President
Indiana and Michigan Electric Company
Post Office Box 18
Bowling Green Station
New York, New York 10004

Dear Mr. Dolan:

The Commission has issued the enclosed Amendment No. 55 to Facility Operating License No. DPR-58 for the Donald C. Cook Nuclear Plant Unit No. 1. The amendment consists of changes to the Technical Specifications in response to your telephone and telecopy request dated June 7, 1982, as confirmed by letter of the same date. This amendment was authorized by telephone to your staff at about 12:50 p.m. on June 7, 1982, and confirmed by a telecopied letter on June 8, 1982.

The amendment permits a one-time exclusion of the inoperable status of one ECCS subsystem for 144 hours to expire no later than 1:00 p.m. on June 10, 1982.

Copies of the Safety Evaluation and the Notice of Issuance are also enclosed.

Sincerely,

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Ramon Cilimberg, Project Manager
Operating Reactors Branch #1
Division of Licensing

Enclosures:

1. Amendment No. 55 to DPR-58
2. Safety Evaluation
3. Notice of Issuance

w/enclosures:
See next page

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SURNAME	CParrish	RCilimberg	SVarga	TNovak	REISER		
DATE	06/17/82	06/17/82:ds	06/17/82	06/18/82	06/21/82		

Mr. John Dolan
Indiana and Michigan Electric Company

cc: Mr. Robert W. Jurgensen
Chief Nuclear Engineer
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New York, New York 10004

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Donald C. Cook Nuclear Plant
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Resident Inspectors Office
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Stevensville, Michigan 49127

Mr. Wade Schuler, Supervisor
Lake Township
Baroda, Michigan 49101

Mr. William R. Rustem (2)
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Honorable James Bemnek, Mayor
City of Bridgman, Michigan 49106

Regional Radiation Representative
EPA Region V
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Director
Department of Public Health
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William J. Scanlon, Esquire
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The Honorable Tom Corcoran
United States House of Representatives
Washington, D. C. 20515

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



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. 55
License No. DPR-58

1. The Nuclear Regulatory Commission (the Commission) has found that:
- A. The request for amendment by Indiana and Michigan Electric Company (the licensee) dated June 7, 1982, 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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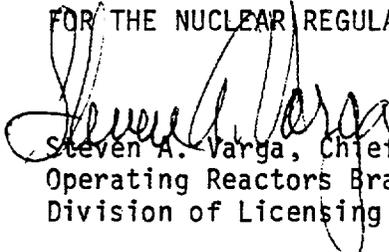
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.2(2) of Facility Operating License No. DPR-58 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 55, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment was effective June 7, 1982.

FOR THE NUCLEAR REGULATORY COMMISSION



Steven A. Varga, Chief
Operating Reactors Branch #1
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: June 28, 1982

ATTACHMENT TO LICENSE AMENDMENT

AMENDMENT NO. 55 TO FACILITY OPERATING LICENSE NO. DPR-58

DOCKET NO. 50-315

Revise Appendix A as follows:

Remove Pages

3/4 5-3

3/4 5-4*

Insert Pages

3/4 5-3

3/4 5-4*

*Included for convenience

EMERGENCY CORE COOLING SYSTEMS

ECCS SUBSYSTEMS - $T_{avg} \geq 350^{\circ}\text{F}$

LIMITING CONDITION FOR OPERATION

3.5.2 Two independent ECCS subsystems shall be OPERABLE with each subsystem comprised of:

- a. One OPERABLE centrifugal charging pump,
- b. One OPERABLE safety injection pump,
- c. One OPERABLE residual heat removal heat exchanger,
- d. One OPERABLE residual heat removal pump, and
- e. An OPERABLE flow path capable of taking suction from the refueling water storage tank on a safety injection signal and transferring suction to the containment sump during the recirculation phase of operation.

APPLICABILITY: MODES 1, 2 and 3.

ACTION:

- a. With one ECCS subsystem inoperable, restore the inoperable subsystem to OPERABLE status within 144 hours or be in HOT SHUTDOWN within the next 12 hours.*
- b. In the event the ECCS is actuated and injects water into the Reactor Coolant System, a Special Report shall be prepared and submitted to the Commission pursuant to Specification 6.9.2 within 90 days describing the circumstances of the actuation and the total accumulated actuation cycles to date.

*After June 10, 1982, the Action shall be a. with one ECCS subsystem inoperable, restore the inoperable subsystem to OPERABLE status within 72 hours or be in HOT SHUTDOWN within the next 12 hours.

EMERGENCY CORE COOLING SYSTEMS

SURVEILLANCE REQUIREMENTS

4.5.2 Each ECCS subsystem shall be demonstrated OPERABLE:

a. At least once per 31 days on a STAGGERED TEST BASIS by:

1. Verifying that each centrifugal charging pump:

- a) Starts (unless already operating) from the control room.
- b) Develops a discharge pressure of ≥ 2405 psig on recirculation flow.
- c) Operates for at least 15 minutes.

2. Verifying that each safety injection pump:

- a) Starts (unless already operating) from the control room.
- b) Develops a discharge pressure of ≥ 1445 psig on recirculation flow.
- c) Operates for at least 15 minutes.

3. Verifying that each residual heat removal pump:

- a) Starts (unless already operating) from the control room.
- b) Develops a discharge pressure ≥ 195 psig on recirculation flow.
- c) Operates for at least 15 minutes.

4. Verifying that the following valves are in the specified positions with control power locked-out:

<u>Valve Number</u>	<u>Valve Function</u>	<u>Valve Position</u>
a. IMO-390	a. RWST to RHR	a. Open
b. IMO-315	b. Low head SI to Hot Leg	b. Closed
c. IMO-325	c. Low head SI to Hot Leg	c. Closed



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 55 TO FACILITY OPERATING LICENSE NO. DPR-58

INDIANA AND MICHIGAN ELECTRIC COMPANY

DONALD C. COOK NUCLEAR PLANT, UNIT NO. 1

DOCKET NO. 50-315

Introduction

By telecon on June 7, 1982, as confirmed by letter of the same date, Indiana and Michigan Electric Company (the licensee) requested an emergency Technical Specification change to Facility Operating License No. DPR-58 for the Donald C. Cook Nuclear Plant Unit No. 1. The amendment would grant a one-time 144 hours inoperable status of one ECCS subsystem to expire no later than 1:00 p.m. on June 10, 1982, instead of the 72 hour limitation of Technical Specification 3.5.2.

Background

At 1:00 p.m. on June 4, 1982, the one east centrifugal charging pump of Unit No. 1 was registering a high vibration. Removal of the pump from service and subsequent inspection revealed the loss of metal from the stainless steel clad and the plain steel of the casing on both the suction and discharge sides of the pump. The licensee requested that one ECCS subsystem remain inoperable for 144 hours to permit repair of the loss of metal and allow sufficient time for assembly and realignment of the pump. The request was reviewed and found acceptable. Verbal approval was given at 12:50 p.m. on June 7 and a letter of approval was telecopied on June 8, 1982. This amendment is the formal following of the expedited action.

Evaluation

The Technical Specifications for Unit 1 requires that this Unit be in HOT SHUTDOWN within the next 12 hours after one ECCS subsystem has been inoperable for 72 hours.

The licensee requested that Unit 1 remain operational with one ECCS subsystem inoperable for 144 hours to repair the charging pump.

The justification for permitting operation while having one ECCS subsystem inoperable is based on the following:

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- a. The remaining 1 west centrifugal charging pump has a high probability for remaining operable during the 144 hours.
- b. A LOCA evaluation based on Westinghouse topical reports WCAP-9600 and WCAP-8970-P-A concludes that loss of the 1W pump would not prevent meeting the PCT limits specified in 10 CFR 50.46.

We have reviewed this request and concluded that it is reasonable and that this action does not introduce any significant increase in the probability of an accident or a new type of accident and operation in this mode is acceptable on a one-time only basis not to extend beyond June 10, 1982.

Environmental Consideration

We have determined that the amendment does not authorize a change in effluent types nor total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR §51.5(d)(4), that an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

Conclusion

We have concluded, based on the considerations discussed above, that: (1) because the amendment does not involve a significant increase in the probability or consequences of accidents previously considered and does not involve a significant decrease in a safety margin, the amendment does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Date: June 28, 1982

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NO. 50-315INDIANA AND MICHIGAN ELECTRIC COMPANYNOTICE OF ISSUANCE OF AMENDMENT TO FACILITY
OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 55 to Facility Operating License No. DPR-58, issued to Indiana and Michigan Electric Company (the licensee), which revised Technical Specification for operation of Donald C. Cook Nuclear Plant, Unit No. 1 (the facility) located in Berrien County, Michigan. The amendment was effective June 7, 1982.

The amendment permits a one-time exclusion of the inoperable status of one ECCS subsystem for 144 hours to expire no later than 1:00 p.m. on June 10, 1982. After June 10, 1982, the inoperable status of one ECCS subsystem is again limited to 72 hours or be in HOT SHUTDOWN within the next 12 hours. The amendment was authorized on an expedited basis to maintain the plant at a steady-state condition and avoid a shutdown transient shown by our evaluation to be unnecessary but required by Technical Specification unless amended.

The application for 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 as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendment. Prior public notice of this amendment was not required since the amendment does not involve a significant hazards consideration.

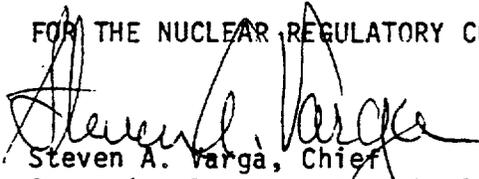
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The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the request for amendment dated June 7, 1982, (2) the Commission's letter to the licensee dated June 8, 1982, (3) Amendment No. 55 to License No. DPR-58 and (4) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D.C. and at the Maude Reston Palenski Memorial Library, 500 Market Street, St. Joseph, Michigan 49085. A copy of items (2), (3) and (4) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Director, Division of Licensing.

Dated at Bethesda, Maryland, this 28th day of June, 1982.

FOR THE NUCLEAR REGULATORY COMMISSION


Steven A. Varga, Chief
Operating Reactors Branch #1
Division of Licensing