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Docket Nos. 50-315
and 50-316

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. 65 to Facility Operating License No. DPR-58 and Amendment No. 46 to Facility Operating License No. DPR-74 for the Donald C. Cook Nuclear Plant, Unit Nos. 1 and 2, respectively. The amendments consist of changes to the Technical Specifications in response to your application transmitted by letter dated November 4, 1981, supplemented January 18, 1982.

These amendments change the Technical Specifications, Appendix B to the licenses by deleting the requirements for scouring and erosion studies.

Copies of the Environmental Impact Appraisal and the Notice of Issuance and Negative Declaration are also enclosed.

Sincerely,

ORIGINAL SIGNED

Marshall Grotenhuis, Project Manager
 Operating Reactors Branch #1
 Division of Licensing

Enclosures:

1. Amendment No. 65 to DPR-58
2. Amendment No. 46 to DPR-75
3. Environmental Impact Appraisal
4. Notice of Issuance and Negative Declaration

cc w/enclosures:
 See next page

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10/5/82 Discussed Scinto's question re Notice environmental conclusion. He is satisfied that correct conclusion has been used. ep

OFFICE	ORB#1:DL	ORB#1:DL	ORB#1:DL	AD/OR:DL	OELD		
SURNAME	CParrish	MGrotenhuis	SVarga	Horak	R. Block		
DATE	09/16/82	09/18/82	09/18/82	09/20/82	09/24/82		

Mr. John Dolan
Indiana and Michigan Electric Company

cc: Mr. Robert W. Jurgensen
Chief Nuclear Engineer
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Gerald Charnoff, Esquire
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Donald C. Cook Nuclear Plant
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U. S. Nuclear Regulatory Commission
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7700 Red Arrow Highway
Stevensville, Michigan 49127

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

Mr. William R. Rustem (2)
Office of the Governor
Room 1 - Capitol Building
Lansing, Michigan 48913

Honorable James Bemnek, Mayor
City of Bridgman, Michigan 49106

Regional Radiation Representative
EPA Region V
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Maurice S. Reizen, M.D.
Director
Department of Public Health
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William J. Scanlon, Esquire
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Ann Arbor, Michigan 48103

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. 65
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 November 4, 1981, as supplemented January 18, 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.

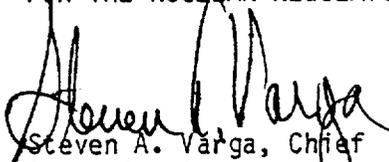
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-58 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 65, 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


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

Attachment:
Changes to the Technical
Specifications

Date of Issuance: October 22, 1982



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. 46
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 November 4, 1981, as supplemented January 18, 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.

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. 46, 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


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

Attachment:
Changes to the Technical
Specifications

Date of Issuance: October 22, 1982

ATTACHMENT TO LICENSE AMENDMENTS

AMENDMENT NO. 65 TO FACILITY OPERATING LICENSE NO. DPR-58

AMENDMENT NO. 46 TO FACILITY OPERATING LICENSE NO. DPR-74

DOCKET NOS. 50-315 AND 50-316

Revise Appendix B as follows:

Remove Appendix B Environmental Technical Specifications Part III Non Water Quality - Non Radiological.



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

ENVIRONMENTAL IMPACT APPRAISAL BY THE
OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 65 TO FACILITY OPERATING LICENSE NO. DPR-58
AND AMENDMENT NO. 46 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 November 4, 1981, as supplemented January 18, 1982, the Indiana and Michigan Electric Company (the licensee) proposed to amend Appendix B to Facility Operating License Nos. DPR-58 and DPR-74 for the Donald C. Cook Nuclear Plant Unit Nos. 1 and 2 (the plant). The proposed amendment would delete the Appendix B Technical Specifications in its entirety and replace it with the new Appendix Environmental Technical Specifications Part I Radiological and Part II Non Radiological Environmental Protection Plan.

Due to the fact that our review of Sections 4.1.1.3 and Erosion and 4.1.1.4 Scour Studies was not completed and that the deletion of water quality related items from Appendix B was urgently needed, Amendment Nos. 54 and 40 were issued on May 6, 1982 with Sections 4.1.1.3 and 4.1.1.4 still in Appendix B (re-named Appendix B Part III Non Water Quality, Non Radiological). Upon completion of our review of Sections 4.1.1.3 and 4.1.1.4 Appendix B Part III can simply be removed.

The licensee's January 18, 1982 letter provided justification for the deletion of the requirement for Erosion and Scour Studies from the Non-Radiological Environmental Technical Specifications. The Appendix B, Environmental Technical Specifications, Sections 4.1.1.3, Erosion and 4.1.1.4, Scour Studies have been part of the annual studies by the University of Michigan for 12 years. An evaluation of the studies is presented below to demonstrate that the objectives have been achieved and that the bases for the studies have been satisfied.

Section 4.1.1.3 Erosion Study

Objectives

A beach erosion monitoring program was conducted to determine the effects of the plant's circulating water discharge, rip rap scour bed, and stationary shore pilings on the erosional and depositional processes affecting the stability of beaches in the vicinity of the site.

Evaluation

Studies were conducted by photographing the beach area from the air and from the ground. Pictures were taken during seasons when ice was present and when the ice was absent. Photographs taken from the air during non-ice conditions were compared from year-to-year to determine if the beaches north and south of the plant were stable, that is, that sand erosion and accumulation rates

were unaltered by the construction and operation of Cook Nuclear Plant. Photographs of the ice accumulation and destruction were taken and studied over the fall and winter ice season. Each season the photographs were studied to determine whether or not the thermal plume had melted the beach ice ridge, allowing the waves to erode sand from the unprotected beach.

Results of the studies have been reported by the licensee in scientific journals in the Great Lakes Research Division of the University of Michigan Special Reports and in the Environmental Operating Reports to the NRC. The reports conclude that the construction and operation of the Cook Nuclear Plant has not caused a significant change in the beach configuration near the plant and that the thermal plume does not cause significant shore ice melting and subsequent beach erosion.

Section 4.1.1.4 Scour Studies

Objective:

The scour monitoring program was designed to determine the adequacy of the scour bed bottom protection and to ensure that significant long- or short-term scour does not result from the high velocity plant discharge or from sediment displacement, by along-shore currents, in areas adjacent to the scour bed.

Evaluation

After extensive study, a jet diffuser system was developed, with a jet velocity of 13-ft/sec selected on the basis of experimentation with a hydraulic model,

to reduce the temperatures in the thermal-affected zone and to minimize the exposure of entrained organisms to heated lake water. Because of the relatively high velocity of the cooling water at the exit ports of the discharge structure, an extensive riprap scour protective bed was installed. The subject scour studies were to verify that no scour problems resulted from plant discharges or placement of the riprap scour bed in the lake.

Monitoring studies on the scour bed performance revealed that modifications to the Unit 1 scour bed were required and these modifications were subsequently completed. Modifications to the Unit 2 scour bed were also made. Information concerning the modifications made to the areas surrounding the discharge structure were submitted to the NRC in letters dated April 6, 1979 and September 13, 1979, respectively.

Results of the monitoring studies have been reported by the licensee in scientific journals of the Great Lakes Research Division of the University of Michigan Special Reports and in the Environmental Operating Reports to NRC. The reports conclude that the modifications to Units 1 and 2 scour bed have been effective and that the high velocity jet discharges do not cause scouring of the adjacent lake bottom.

The licensee has stated that future modifications to the scour beds (resulting from further studies performed by the licensee or requested by the appropriate federal or state agency) will be submitted for approval to

agencies having jurisdiction over this work. The appropriate federal agency is the United States Corps of Engineers under Section 10, Rivers and Harbors (R&H) Act, 1899, and Section 404, Federal Water Pollution Control Act (FWPCA), 1972. The appropriate state agency is the State of Michigan, Department of Natural Resources under Act 346, P.A. 1972, and Act 247, P.A. 1955.

Summary

The licensee has requested, and provided justification for deletion of the requirement to perform erosion and scour bed studies. The periodic reports responding to the Technical Specifications has been reviewed as well as the licensee's justification. We agree with the conclusions presented in licensee reports. Based on our review of these reports we conclude that the requirements of Sections 4.1.1.3 - Erosion and 4.1.1.4 - Scour Studies have accomplished the objectives of monitoring the impact of the plant. We further conclude that the studies have shown that the plant has neither caused a significant change in the beach configuration near the plant nor significant scouring of the lake bottom. Sections 4.1.1.3 and 4.1.1.4 should therefore be deleted from Appendix B to the licenses. Therefore, Appendix B Part III Non Water Quality may be deleted.

Conclusions

On the basis of the foregoing analysis, it is concluded that there will be no significant environmental impact attributable to the proposed action. Having made this conclusion, the Commission has further concluded that no environmental impact statement for the proposed action need be prepared and that a negative declaration to this effect is appropriate.

We have concluded, based on the considerations discussed above, that: (1) because the amendments do not authorize a significant increase in the probability or consequences of an accident previously evaluated, do not create the possibility of an accident of a type different from any evaluated previously, and do not involve a significant reduction in a margin of safety, the amendments do 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 the amendments will not be inimical to the common defense and security or to the health and safety of the public.

Date: October 22, 1982

Principal Reviewer:
R. Jackowski

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NOS. 50-315 AND 50-316INDIANA AND MICHIGAN ELECTRIC COMPANYNOTICE OF ISSUANCE OF AMENDMENT TO FACILITYOPERATING LICENSEAND NEGATIVE DECLARATION

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 65 to Facility Operating License No. DPR-58 and Amendment No. 46 to Facility Operating License No. DPR-74 issued to Indiana and Michigan Electric Company (the licensee), which revised Technical Specifications for operation of Donald C. Cook Nuclear Plant, Unit Nos. 1 and 2 (the facilities) located in Berrien County, Michigan. The amendments are effective as of the date of issuance.

The amendments change the Technical Specifications, Appendix B to the licenses, by deleting the requirements for scouring and erosion studies.

The application for the amendments complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendments. Prior public notice of these amendments was not required since the amendments do not involve a significant hazards consideration.

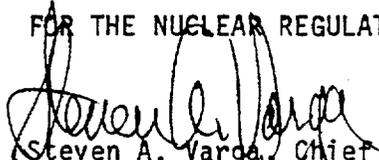
The Commission has prepared an environmental impact appraisal for the revised Technical Specifications and has concluded that an environmental impact statement for this particular action is not warranted because there will be no environmental impact attributable to the action other than that which has already been predicted and described in the Commission's Final Environmental Statement for the facility dated July 1972.

- 2 -

For further details with respect to this action, see (1) the application for amendments dated November 4, 1981, as supplemented January 18, 1982, (2) Amendment Nos. 65 and 46 to License Nos. DPR-58 and DPR-74, and (3) the Commission's related Environmental Impact Appraisal. 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 Palenske Memorial Library, 500 Market Street, St. Joseph, Michigan 49085. A copy of items (2) and (3) 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 22nd day of October, 1982.

FOR THE NUCLEAR REGULATORY COMMISSION


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