

bcc: JRBuchanan, NSIC
 TBAbernathy, TIC
 ARosenthal, ASLAB
 NGoodrich, ASLBP
 JUN 25 1976
 MSlater
 PCota

Docket No. 50-315

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

Gentlemen:

The Commission has issued Amendment No. 16 to Facility Operating License DPR-58 in response to your requesting letters of June 11, 1976 and June 24, 1976.

This amendment revises Technical Specification 4.8.1.1.2.b such that for the first demonstration of diesel generator operability under load following initial criticality, the interval specified in 4.8.1.1.2.b, including the maximum allowable extension of this interval authorized by Specification 4.0.2.a, may be extended to no later than midnight July 10, 1976. A signed copy of the Amendment is enclosed. Also enclosed are copies of our safety evaluation and the Federal Register Notice.

You indicated in your June 11 letter that you had planned to shut down Unit 1 over a weekend in June 1976 to conduct the required tests but, due to forced outages and curtailments of other units and to system load requirements, you believe it is essential that D. C. Cook Unit 1 be kept in service until the long July 4, 1976 weekend. Therefore, you have requested an extension of the deadline for testing the diesels from June 26, 1976 to July 10, 1976. In support of this consideration, you provided additional information in your June 24, 1976 letter regarding the electric generating status of your system and of neighboring systems. You stated that generating capacity totalling 6400 megawatts-electric, or 37% of the capacity of the American Electric Power Company system of which your companies are subsidiaries, is unavailable for service and will not be available prior to June 26. You also noted that the Tennessee Valley Authority system has about 4800 megawatts out of service. Other neighboring systems are also experiencing serious capacity conditions. Based upon these considerations, you have concluded that, if D. C. Cook Unit 1 were to be shut down over the June 26 weekend, the reliability of the American Electric Power system would be jeopardized

Distribution

- Docket ✓
- NRC PDR
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- ELD
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- KKniel
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- JLee
- FJWilliams
- HSmith
- BScott, PM (w/o tech specs)
- IE (4)
- NDube (w/o tech specs)
- JSaltzman (w/o tech specs)
- MJinks (w/4 encl)
- WMiller (w/o tech specs)
- ACRS (16)
- HDenton
- VMoore
- RVollmer
- MErnst
- WGammill
- RHeineman
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- DSkovholt
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- HBristow
- VStello
- KGoller
- JMcGough
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Indiana & Michigan Electric Company - 2 -
Indiana & Michigan Power Company

and that of a large geographic area of the United States would be seriously affected. However, by the July 4 weekend, the AEP system capability will have improved significantly and system loads will be substantially reduced from current levels.

Based upon these considerations, we believe that the potential risk to the public of not having adequate electric power is greater than that represented by authorizing the extension you have requested.

We wish to note, however, that we expect licensees to perform surveillance activities on schedules that conform to the specified intervals as closely as practicable, and that the 25 percent extension of surveillance interval permitted by Specification 4.0.2.a is included in the Technical Specifications to provide operational flexibility.

According to your monthly reports of Average Daily Unit Power Level and of Unit Shutdowns and Power Reductions, Unit 1 was shut down for almost two days on February 7, 1976, for about five days on March 27, 1976, and for 27 days from April 12 to May 10, 1976. The reports indicate that all three of these shutdowns were scheduled shutdowns. It appears, therefore, that you had several opportunities to perform the diesel tests required by Specification 4.8.1.1.2.b within the time period permitted by Specifications 4.8.1.1.2.b and 4.0.2.a. We suggest that you need to improve your planning and scheduling for fulfilling license requirements in order to minimize delays and the need for relief from license requirements.

Sincerely,

Original signed by
K. Kniel

Karl Kniel, Chief
Light Water Reactors Branch No. 2
Division of Project Management

Enclosures:

- 1. Amendment No. 16
- 2. Safety Evaluation
- 3. Federal Register Notice

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SURNAME ➤	RBenedict:mjf	McGuire	KKniel		
DATE ➤	6/25/76	6/25/76	6/25/76		

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Indiana & Michigan Power Company

JUN 25 1976

CCS:
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, NW
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
Lansing, Michigan 49813

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

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

Honorable W. Mabry, Mayor
City of Bridgman
Michigan 49104

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

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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. 16
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) in letters dated June 11 and June 24, 1976, 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. An environmental statement or negative declaration need not be prepared in connection with the issuance of this amendment.
2. Accordingly, the license is amended by a change to the Technical Specifications as indicated in the attachment to this license amendment.

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

FOR THE NUCLEAR REGULATORY COMMISSION

Karl Kniel, Chief
Light Water Reactors
Branch No. 2
Division of Project Management

Attachment:
Change to the Technical
Specifications

Date of Issuance: JUN 25 1976

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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

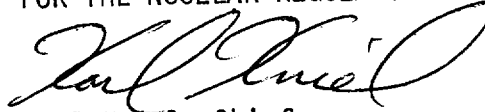
FACILITY OPERATING LICENSE

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FOR THE NUCLEAR REGULATORY COMMISSION



Karl Kniel, Chief
Light Water Reactors
Branch No. 2
Division of Project Management

Attachment:
Change to the Technical
Specifications

Date of Issuance: JUN 25 1976

ATTACHMENT TO LICENSE AMENDMENT NO. 16

FACILITY OPERATING LICENSE NO. DPR-58

DOCKET NO. 50-315

CHANGE TO THE TECHNICAL SPECIFICATIONS

Replace page 3/4 8-3 of the Appendix "A" Technical Specifications with the enclosed page. The revised page is identified by Amendment number and contains vertical lines indicating the areas of change. The corresponding overleaf page 3/4 8-4 is also provided to maintain document completeness. No changes were made on 3/4 8-4.

ATTACHMENT TO LICENSE AMENDMENT NO. 16

FACILITY OPERATING LICENSE NO. DPR-58

DOCKET NO. 50-315

CHANGE TO THE TECHNICAL SPECIFICATIONS

Replace page 3/4 8-3 of the Appendix "A" Technical Specifications with the enclosed page. The revised page is identified by Amendment number and contains vertical lines indicating the areas of change. The corresponding overleaf page 3/4 8-4 is also provided to maintain document completeness. No changes were made on 3/4 8-4.

ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

2. Verifying the fuel level in the fuel storage tank,
 3. Verifying that a sample of diesel fuel from the fuel storage tank is within the acceptable limits specified in Table 1 of ASTM D975-68 when checked for viscosity, water and sediment,
 4. Verifying the fuel transfer pump can be started from the control panel and transfers fuel from the storage system to the day tank,
 5. Verifying the diesel starts from ambient condition,
 6. Verifying the generator is synchronized, loaded to ≥ 1750 kw, and operates for ≥ 60 minutes, and
 7. Verifying the diesel generator is aligned to provide standby power to the associated emergency busses.
- b. At least once per 18 months* during shutdown by:
1. Subjecting the diesel to an inspection in accordance with procedures prepared in conjunction with its manufacturer's recommendations for this class of standby service,
 2. Verifying the generator capability to reject a load of ≥ 600 kw without tripping,
 3. Simulating a loss of offsite power in conjunction with a safety injection signal, and:
 - a) Verifying de-energization of the emergency busses and load shedding from the emergency busses.
 - b) Verifying the diesel starts from ambient condition on the auto-start signal, energizes the emergency busses with permanently connected loads, energizes the auto-connected emergency loads through the load sequencer and operates for ≥ 5 minutes while its generator is loaded with the emergency loads.

*For the first demonstration following initial criticality, this interval, including the maximum allowable extension authorized by Specification 4.0.2.a, may be extended to no later than midnight, July 10, 1976.

ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

4. Verifying the diesel generator operates for ≥ 60 minutes while loaded to ≥ 3500 kw.
5. Verifying that the auto-connected loads to each diesel generator do not exceed the 2000 hour rating of 3650 kw.
6. Verifying that the automatic sequence timing relays are OPERABLE with each load sequence time within $\pm 10\%$ of its required value.

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 16 TO LICENSE NO. DPR-58

INDIANA AND MICHIGAN ELECTRIC COMPANY

INDIANA AND MICHIGAN POWER COMPANY

DOCKET NO. 50-315

DONALD C. COOK NUCLEAR PLANT, UNIT 1

Introduction

By letters dated June 11, 1976 and June 24, 1976, the licensees, Indiana & Michigan Electric Company and Indiana & Michigan Power Company, requested an extension of the Technical Specification surveillance time interval required under Specification 4.8.1.1.2.b. This Specification requires that each diesel generator be demonstrated operable at least once every 18 months during shutdown by conducting a series of inspections, trips, and loading tests as described in the Specification.

The licensees stated that the 18 month time interval for the testing, including the allowable extension authorized by Specification 4.0.2.a, ends on June 26, 1976. The licensees had planned to shut down D. C. Cook Unit 1 over a weekend in June 1976 to conduct the tests. However, due to forced outages and curtailments of other units and to system load requirements, the licensees deem it essential that D. C. Cook Unit 1 be kept in service until the long 4th of July weekend. Therefore, the licensees requested a two-week extension of the deadline for testing the diesel generators from June 26, 1976 to July 10, 1976.

Discussion

Technical Specification 4.8.1.1.2.b requires that each diesel generator be demonstrated operable at least once every 18 months during shutdown by the performance of certain inspections, trips, and loading tests as described in the Specification. Technical Specification 4.0.2.a authorizes an extension of the time interval by an amount not to exceed 25 percent of the surveillance interval.

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Evaluation

The time intervals given in the Technical Specifications are set forth as general guidance for surveillance programs and are not safety limits. In the case of the diesel generators, the program specified in Specification 4.3.1.1.2.b cannot be performed while the reactor is operating. The 18-month interval was determined from the fact that a pressurized water reactor of the D. C. Cook Unit 1 type is expected to be shut down for refueling about every 18 months, and that the testing of the diesel generators would be performed during reactor refueling.

In order to provide operational flexibility because of scheduling and performance considerations, Specification 4.0.2.a provides a tolerance of up to 25 percent for performing surveillance activities beyond the nominal surveillance interval.

The total time interval between successive tests of the diesel generators, as authorized by Specifications 4.3.1.1.2.b and 4.0.2.a, is 22 1/2 months. The licensees have requested an additional two weeks, which is short relative to the almost-two-years since the last surveillance and does not, therefore, significantly reduce the assurance that the diesel generators will be capable of performing their safety function if called upon to do so during this two-week interval. Therefore, the two-week extension does not involve a significant increase in the probability or consequences of an accident or a significant decrease in a safety margin. Accordingly, the licensees' request for a two-week extension is acceptable.

Environmental Considerations

We have determined that the amendment does not authorize a change in effluent types or 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 statement, negative declaration, or 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 change 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 change does not involve a significant hazards consideration; (2) there is reasonable assurance that

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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.

Dated: June 25, 1976

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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 16 TO LICENSE NO. DPR-58

INDIANA AND MICHIGAN ELECTRIC COMPANY

INDIANA AND MICHIGAN POWER COMPANY

DOCKET NO. 50-315

DONALD C. COOK NUCLEAR PLANT, UNIT 1

Introduction

By letters dated June 11, 1976 and June 24, 1976, the licensees, Indiana & Michigan Electric Company and Indiana & Michigan Power Company, requested an extension of the Technical Specification surveillance time interval required under Specification 4.8.1.1.2.b. This Specification requires that each diesel generator be demonstrated operable at least once every 18 months during shutdown by conducting a series of inspections, trips, and loading tests as described in the Specification.

The licensees stated that the 18 month time interval for the testing, including the allowable extension authorized by Specification 4.0.2.a, ends on June 26, 1976. The licensees had planned to shut down D. C. Cook Unit 1 over a weekend in June 1976 to conduct the tests. However, due to forced outages and curtailments of other units and to system load requirements, the licensees deem it essential that D. C. Cook Unit 1 be kept in service until the long 4th of July weekend. Therefore, the licensees requested a two-week extension of the deadline for testing the diesel generators from June 26, 1976 to July 10, 1976.

Discussion

Technical Specification 4.8.1.1.2.b requires that each diesel generator be demonstrated operable at least once every 18 months during shutdown by the performance of certain inspections, trips, and loading tests as described in the Specification. Technical Specification 4.0.2.a authorizes an extension of the time interval by an amount not to exceed 25 percent of the surveillance interval.

Evaluation

The time intervals given in the Technical Specifications are set forth as general guidance for surveillance programs and are not safety limits. In the case of the diesel generators, the program specified in Specification 4.8.1.1.2.b cannot be performed while the reactor is operating. The 18-month interval was determined from the fact that a pressurized water reactor of the D. C. Cook Unit 1 type is expected to be shut down for refueling about every 18 months, and that the testing of the diesel generators would be performed during reactor refueling.

In order to provide operational flexibility because of scheduling and performance considerations, Specification 4.0.2.a provides a tolerance of up to 25 percent for performing surveillance activities beyond the nominal surveillance interval.

The total time interval between successive tests of the diesel generators, as authorized by Specifications 4.8.1.1.2.b and 4.0.2.a, is 22 1/2 months. The licensees have requested an additional two weeks, which is short relative to the almost-two-years since the last surveillance and does not, therefore, significantly reduce the assurance that the diesel generators will be capable of performing their safety function if called upon to do so during this two-week interval. Therefore, the two-week extension does not involve a significant increase in the probability or consequences of an accident or a significant decrease in a safety margin. Accordingly, the licensees' request for a two-week extension is acceptable.

Environmental Considerations

We have determined that the amendment does not authorize a change in effluent types or 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 statement, negative declaration, or 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 change 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 change 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.

Dated: June 25, 1976

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. 16 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 the date of its issuance.

The amendment changes certain Technical Specifications to extend the time interval within which the first demonstration of diesel generator operability following initial criticality may be performed.

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.

The Commission has determined that the issuance of this amendment will ~~not result in any significant environmental impact and that, pursuant~~

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to 10 CFR § 51.5(d)(4), an environmental statement, negative declaration or 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 June 11, 1976 and June 24, 1976 letters of application for amendment, (2) Amendment No. 16 to License No. DPR-58, (3) the Commission's letter to the licensee dated June 25, 1976, 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, NW, Washington, D. C., and at the St. Joseph Public 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 Project Management.

Dated at Bethesda, Maryland, this 25th day of June 1976.

FOR THE NUCLEAR REGULATORY COMMISSION:

Karl Knief, Chief
Light Water Reactors
Branch No. 2
Division of Project Management

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