

March 11, 1996

Mr. E. E. Fitzpatrick, Vice President
Indiana Michigan Power Company
c/o American Electric Power Service Corporation
1 Riverside Plaza
Columbus, OH 43215

SUBJECT: DONALD C. COOK NUCLEAR PLANT, UNIT NOS. 1 AND 2 - ISSUANCE OF
AMENDMENTS RE: EDG SURVEILLANCE TESTING (TAC NOS. M91864 AND M91865)

Dear Mr. Fitzpatrick:

The Commission has issued the enclosed Amendment No. 207 to Facility Operating License No. DPR-58 and Amendment No. 191 to Facility Operating License No. DPR-74 for the Donald C. Cook Nuclear Plant, Unit Nos. 1 and 2. The amendments consist of changes to the Technical Specifications in response to your application dated November 10, 1995 which superseded your request dated June 15, 1995.

The amendments reduce the duration of surveillance requirement 4.8.1.1.2.e.7 from 24 hours to 8 hours for the emergency diesel generators.

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,

Original Signed By:

John B. Hickman, Project Manager
Project Directorate III-1
Division of Reactor Projects - III/IV
Office of Nuclear Reactor Regulation

Docket Nos. 50-315 and 50-316

- Enclosures: 1. Amendment No. 207 to DPR-58
- 2. Amendment No. 191 to DPR-74
- 3. Safety Evaluation

cc w/encl: See next page

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NAME	CJamerson <i>CJ</i>		JHickman <i>JH</i>			JHannon	
DATE	2/20/96		2/22/96		2/27/96	3/9/96	

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DATED: March 11, 1996

AMENDMENT NO. 207 TO FACILITY OPERATING LICENSE NO. DPR-58-D. C. COOK-UNIT 1
AMENDMENT NO. 191 TO FACILITY OPERATING LICENSE NO. DPR-74-D. C. COOK-UNIT 2

Docket File

PUBLIC

PDIII-1 Reading

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cc: Plant Service list

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

March 11, 1996

Mr. E. E. Fitzpatrick, Vice President
Indiana Michigan Power Company
c/o American Electric Power Service Corporation
1 Riverside Plaza
Columbus, OH 43215

SUBJECT: DONALD C. COOK NUCLEAR PLANT, UNIT NOS. 1 AND 2 - ISSUANCE OF
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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, reading "John B. Hickman".

John B. Hickman, Project Manager
Project Directorate III-1
Division of Reactor Projects - III/IV
Office of Nuclear Reactor Regulation

Docket Nos. 50-315 and 50-316

Enclosures: 1. Amendment No. 207 to DPR-58
2. Amendment No. 191 to DPR-74
3. Safety Evaluation

cc w/encl: See next page

Mr. E. E. Fitzpatrick
Indiana Michigan Power Company

Donald C. Cook Nuclear Plant

cc:

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

INDIANA MICHIGAN POWER COMPANY

DOCKET NO. 50-315

DONALD C. COOK NUCLEAR PLANT, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 207
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 November 10, 1995 which superseded a request dated June 15, 1995, 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) 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. 207, 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 issuance, with full implementation within 45 days.

FOR THE NUCLEAR REGULATORY COMMISSION



John B. Hickman, Project Manager
Project Directorate III-1
Division of Reactor Projects - III/IV
Office of Nuclear Reactor Regulation

Attachment: Changes to the Technical
Specifications

Date of Issuance: March 11, 1996

ATTACHMENT TO LICENSE AMENDMENT NO. 207
TO FACILITY OPERATING LICENSE NO. DPR-58
DOCKET NO. 50-315

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 vertical lines indicating the area of change.

REMOVE

3/4 8-3
3/4 8-6

INSERT

3/4 8-3
3/4 8-6

SURVEILLANCE REQUIREMENTS (Continued)

4.8.1.1.2 Each diesel generator shall be demonstrated OPERABLE:

- a. In accordance with the frequency specified in Table 4.8-1 on a STAGGERED TEST BASIS by:
1. Verifying the fuel level in the day tank,
 2. Verifying the fuel level in the fuel storage tank,
 3. Verifying that the fuel transfer pump can be started and that it transfers fuel from the storage system to the day tank,
 4. Verifying that the diesel starts from standby conditions and achieves in less than or equal to 10 seconds, voltage = 4160 ± 420 V, and frequency = 60 ± 1.2 Hz,*
 5. Verifying the diesel is synchronized and loaded and operates for greater than or equal to 60 minutes at a load of 3500 kw^{***}, and
 6. Verifying that the diesel generator is aligned to provide standby power to the associated emergency busses.
- b. By removing accumulated water^{***}:
- 1) From the day tank at least once per 31 days and after each occasion when the diesel is operated for greater than 1 hour, and
 - 2) From the storage tanks at least once per 31 days.
- c. By sampling new fuel oil^{***} in accordance with the applicable guidelines of ASTM D4057-81 prior to adding new fuel to the storage tanks and
- 1) By verifying, in accordance with the tests specified in ASTM D975-81 and prior to adding the new fuel to the storage tanks, that the sample has:

* The diesel generator start (10 seconds) from standby conditions shall be performed at least once per 184 days in these surveillance tests. All other engine starts for the purpose of this surveillance testing and compensatory action may be at reduced acceleration rates as recommended by the manufacturer so that mechanical stress and wear on the diesel engine are minimized.

** Momentary load transients do not invalidate this test.

*** The actions to be taken should any of the properties be found outside of specified limits are defined in the Bases.

3/4 LIMITING CONDITIONS FOR OPERATION AND SURVEILLANCE REQUIREMENTS
3/4.8 ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- c) Verifying that all automatic diesel generator trips, except engine overspeed and generator differential, are automatically bypassed upon loss of voltage on the emergency bus and/or Safety Injection actuation signal.
- 7. Verifying that the diesel generator operates at a power factor of less than or equal to 0.86 for at least 8 hours. During this test the diesel generator shall be loaded to 3500 kw. Within 5 minutes after completing this 8-hour test, perform Surveillance Requirement 4.8.1.1.2.a.4 (at existing conditions).
- 8. Determine that the auto-connected loads to each diesel generator do not exceed 3500 kw.
- 9. Verifying the diesel generator's capability to:
 - a) Synchronize with the offsite power source while the generator is loaded with its emergency loads upon a simulated restoration of offsite power.
 - b) Transfer its loads to the offsite power source, and
 - c) Be restored to its standby status.
- 10. Verifying that with the diesel generator operating in a test mode while connected to its test load, a simulated Safety Injection signal overrides the test mode by:
 - a) Returning the diesel generator to standby operation, and
 - b) Verifying the emergency loads are serviced by offsite power.
- 11. Verifying that the automatic sequence timing relays are OPERABLE with each load sequence time within plus or minus 5% of its required value and that each load is sequenced on within the design allowable time limit.
- f. At least once per 10 years by:
 - 1. Employing one of the following cleaning methods to clean the fuel oil storage tanks:
 - a) Drain each fuel oil storage tank, remove the accumulated sediment, and clean the tank, or

• Momentary transients outside the load and power factor range do not invalidate this test.

• If Surveillance Requirement 4.8.1.1.2.a.4 is not satisfactorily completed, it is not necessary to repeat the preceding 8-hour test. Instead, the diesel generator may be operated at 3500 kw for 2 hours or until operating temperature has stabilized.

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. 191, 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 issuance, with full implementation within 45 days.

FOR THE NUCLEAR REGULATORY COMMISSION



John B. Hickman, Project Manager
Project Directorate III-1
Division of Reactor Projects - III/IV
Office of Nuclear Reactor Regulation

Attachment: Changes to the Technical
Specifications

Date of Issuance: March 11, 1996



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

INDIANA MICHIGAN POWER COMPANY

DOCKET NO. 50-316

DONALD C. COOK NUCLEAR PLANT, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 191
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 November 10, 1995 which superseded a request dated June 15, 1995, 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.

ATTACHMENT TO LICENSE AMENDMENT NO. 191

FACILITY OPERATING LICENSE NO. DPR-74

DOCKET NO. 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 vertical lines indicating the area of change.

REMOVE

3/4 8-3
3/4 8-6

INSERT

3/4 8-3
3/4 8-6

SURVEILLANCE REQUIREMENTS (Continued)

- 4.8.1.1.2 Each diesel generator shall be demonstrated OPERABLE:
- a. In accordance with the frequency specified in Table 4.8-1 on a STAGGERED TEST BASIS by:
 - 1. Verifying the fuel level in the day tank,
 - 2. Verifying the fuel level in the fuel storage tank,
 - 3. Verifying that the fuel transfer pump can be started and that it transfers fuel from the storage system to the day tank,
 - 4. Verifying that the diesel starts from standby conditions and achieves in less than or equal to 10 seconds, voltage = 4160 ± 420 V, and frequency = 60 ± 1.2 Hz,^{*}
 - 5. Verifying the diesel is synchronized and loaded and operates for greater than or equal to 60 minutes at a load of 3500 kw^{**}, and
 - 6. Verifying that the diesel generator is aligned to provide standby power to the associated emergency busses.
 - b. By removing accumulated water^{***}:
 - 1) From the day tank at least once per 31 days and after each occasion when the diesel is operated for greater than 1 hour, and
 - 2) From the storage tanks at least once per 31 days.
 - c. By sampling new fuel oil^{***} in accordance with the applicable guidelines of ASTM D4057-81 prior to adding new fuel to the storage tanks and
 - 1) By verifying, in accordance with the tests specified in ASTM D975-81 and prior to adding the new fuel to the storage tanks, that the sample has:

^{*} The diesel generator start (10 seconds) from standby conditions shall be performed at least once per 184 days in these surveillance tests. All other engine starts for the purpose of this surveillance testing and compensatory action may be at reduced acceleration rates as recommended by the manufacturer so that mechanical stress and wear on the diesel engine are minimized.

^{**} Momentary load transients do not invalidate this test.

^{***} The actions to be taken should any of the properties be found outside of specified limits are defined in the Bases.

3/4 LIMITING CONDITIONS FOR OPERATION AND SURVEILLANCE REQUIREMENTS
3/4.8 ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- c) Verifying that all automatic diesel generator trips, except engine overspeed and generator differential, are automatically bypassed upon loss of voltage on the emergency bus and/or Safety Injection actuation signal.

- 7. Verifying that the diesel generator operates at a power factor of less than or equal to 0.86 for at least 8 hours." During this test the diesel generator shall be loaded to 3500 kw. Within 5 minutes after completing this 8-hour test, perform Surveillance Requirement 4.8.1.1.2.e.4 (at existing conditions)."

- 8. Determine that the auto-connected loads to each diesel generator do not exceed 3500 kw.

- 9. Verifying the diesel generator's capability to:
 - a) Synchronize with the offsite power source while the generator is loaded with its emergency loads upon a simulated restoration of offsite power.
 - b) Transfer its loads to the offsite power source, and
 - c) Be restored to its standby status.

- 10. Verifying that with the diesel generator operating in a test mode while connected to its test load, a simulated Safety Injection signal overrides the test mode by:
 - a) Returning the diesel generator to standby operation, and
 - b) Verifying the emergency loads are serviced by offsite power.

- 11. Verifying that the automatic sequence timing relays are OPERABLE with each load sequence time within plus or minus 5% of its required value and that each load is sequenced on within the design allowable time limit.

- f. At least once per 10 years by:
 - 1) Employing one of the following cleaning methods to clean the fuel oil storage tanks:
 - a) Drain each fuel oil storage tank, remove the accumulated sediment, and clean the tank, or

* Momentary transients outside the load and power factor range do not invalidate this test.

** If Surveillance Requirement 4.8.1.1.2.a.4 is not satisfactorily completed, it is not necessary to repeat the preceding 8-hour test. Instead, the diesel generator may be operated at 3500 kw for 2 hours or until operating temperature has stabilized.



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 207 TO FACILITY OPERATING LICENSE NO. DPR-58
AND AMENDMENT NO. 191 TO FACILITY OPERATING LICENSE NO. DPR-74

INDIANA MICHIGAN POWER COMPANY

DONALD C. COOK NUCLEAR PLANT, UNIT NOS. 1 AND 2

DOCKET NOS. 50-315 AND 50-316

1.0 INTRODUCTION

By letter dated November 10, 1995 which superseded a request dated June 15, 1995, the Indiana Michigan Power Company (the licensee) requested amendments to the Technical Specifications (TS) appended to Facility Operating License Nos. DPR-58 and DPR-74 for the Donald C. Cook Nuclear Plant, Unit Nos. 1 and 2. The proposed amendments would reduce the duration of surveillance requirement 4.8.1.1.2.e.7 from 24 hours to 8 hours for the emergency diesel generators (EDGs). On August 2, 1995, during a telephone conference, the staff questioned the licensee regarding TS requirements to: 1) maintain required load power factor during 24-hour surveillance testing (TS Section 4.8.1.1.2.e.7); 2) verify proper voltage and frequency during monthly start testing (TS Section 4.8.1.1.2.a.4); and 3) load EDGs at rated load of 3500 kW during monthly load run tests (TS Section 4.8.1.1.2.a.5). Additionally, the staff requested the licensee to investigate the EDG manufacturer's opinion about the 8-hour vs. 24-hour endurance surveillance testing time. On November 10, 1995, the licensee resolved the staff's concerns and submitted a revised request for a change to the EDG TS surveillance requirements. This request included some editorial changes.

2.0 EVALUATION

The staff's evaluation of the licensee's proposed changes to the TS follows.

2.1 Proposed Changes to TS Section 4.8.1.1.2.e.7 for Both Units

The licensee proposed to change the Donald C. Cook Nuclear Plant, Units 1 and 2, TS Section 4.8.1.1.2.e.7.

At present, the TS section reads as follows:

"Verifying that the diesel generator operates for at least 24 hours. During this test the diesel generator shall be loaded to 3500 kW. Within 5 minutes after completing this 24-hour test, perform Surveillance Requirement 4.8.1.1.2.a.4 (at existing conditions).*

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"* If Surveillance Requirement 4.8.1.1.2.a.4 is not satisfactorily completed, it is not necessary to repeat the preceding 24-hour test. Instead, the diesel generator may be operated at 3500 kw for 2 hours or until operating temperature has stabilized."

The amended TS section would read:

"Verifying that the diesel generator operates at a power factor of less than or equal to 0.86 for at least 8 hours*. During this test the diesel generator shall be loaded to 3500 kw. Within 5 minutes after completing this 8-hour test, perform Surveillance Requirement 4.8.1.1.2.a.4 (at existing conditions).**"

"* Momentary transients outside the load and power factor range do not invalidate this test.

** If Surveillance Requirement 4.8.1.1.2.a.4 is not satisfactorily completed, it is not necessary to repeat the preceding 8-hour test. Instead, the diesel generator may be operated at 3500 kw for 2 hours, or until operating temperature has stabilized."

The licensee stated that reducing the surveillance time from 24 to 8 hours would significantly improve outage performance without reducing EDG reliability. The proposed change is designed to reduce operating costs, make outage scheduling more flexible, reduce shutdown risk, and increase diesel life. After examining the EDGs test data from 1974 to 1994, the licensee concludes that extensive run times beyond the point at which the EDG is started, loaded to 3500 kW, and achieves an equilibrium condition provide little insight regarding EDG reliability. The engine steady-state characteristics are achieved in approximately 2 hours and the dominant failure modes of the EDG are expected to occur within this period. In addition, review of the 24-hour test data from 1974 to 1994 does not indicate the existence of any abnormal conditions that would have kept the diesel from completing its mission during an actual emergency demand. Therefore, reducing the test duration from a 24-hour to an 8-hour period will maintain an equivalent level of confidence in EDG reliability and may actually improve overall EDG reliability.

On the basis of the review of the load-run test data, the licensee determined that there were 107 long-duration load-run demands with no failures and 873 short-duration load-run demands with 3 failures. A conservative, statistically based, mathematical model was developed to determine the reliability of the EDG during the load-run phase of testing as a function of time. The model predicted that 60 percent of the valid load-run failures would occur within the first 2 hours of operation, 95 percent in the first 6.5 hours, and 98 percent in the first 8 hours.

The licensee also stated that the objective of the endurance test should be to expose as many of the random-type failures as possible and to minimize EDG component wear. Thus, the optimal surveillance test duration should be

selected to provide reasonable assurance that the majority of incipient random failures are exposed without adversely impacting EDG availability for an actual emergency demand. Also, consistent with actual performance data and engineering judgment, the period of highest stress would occur during startup and before equilibrium conditions are established ($0 \leq \text{Time to reach equilibrium} < 2 \text{ hours}$).

Additionally, the licensee has reviewed the EDG performance during the load-run phase of operation on an industry-wide basis. The EDG industry-wide failure probability history is summarized below:

<u>Period</u>	<u>No. of Failures</u>	<u>No. of EDGs</u>	<u>No. of EDG years</u>	<u>Failures per EDG year</u>
1980-1983	396	158	588	0.7

<u>Period</u>	<u>No. of Failures</u>	<u>No. of EDGs</u>	<u>No. of load-runs</u>	<u>Failures per Demand</u>
1983-1985	138	154	13,808	0.01
1988-1991	182	195	19,520	0.0095

The industry-wide EDG failure rate during the 24-hour surveillance is less than 0.01.

The licensee concluded that, on the basis of actual performance data and related industry-wide surveys, an endurance test duration of 8 hours is recommended to provide the necessary insight about EDG reliability. Tests that last more than 8 hours would not provide a significant operating safety benefit and would only serve to increase cumulative run time and the likelihood of age-related component failures. The diesel manufacturer (Worthington) agreed that 8 hours would be sufficient to test the diesel for the 18-month surveillance test.

Based on our review of the above information, the staff finds that although the reduction of performance of the 24-hour test to 8 hours is contrary to the standard technical specifications (STS), the performance of this surveillance for 8 hours is acceptable. This conclusion is also based on the fact that the Institute of Electrical and Electronics Engineers, Inc. (IEEE) Working Group 4.2 has also recommended that the 24-hour test be reduced to 8 hours in the upcoming revision of IEEE Std. 387, "Standard Criteria for Diesel-Generator Units Applied as Standby Power Supplies for Nuclear Power Generating Stations." Furthermore, our review of the industry data collected for 24-hour testing in the final draft of INEL-95/0035, "Emergency Diesel Generator Reliability Performance, 1987 - 1993," prepared by Idaho National Engineering Laboratory, indicated that the failure rate during the first half-hour of the test was $1.1E-2$. The failure rate decreased significantly to $7.6E-4$ for the period between 0.5 hour and 14 hours. For a period greater than 14 hours, the failure rate again decreased to $1.0E-4$. Based on these considerations, the

staff believes that the reduction of the 24-hour test run to 8 hours will not reduce the effectiveness of this surveillance requirement and that this test duration is sufficient to exercise the EDG and its support systems to identify potential conditions that could lead to its performance degradation.

In response to staff concerns, the licensee revised this surveillance to be consistent with the improved STS by including a load power factor during this surveillance test to represent actual loading of the auxiliary system during an accident condition. The staff finds this to be an improvement over the existing TS and the proposed TS change to be acceptable.

2.2 Proposed Changes to TS Section 4.8.1.1.2.a.4 for Both Units

The licensee proposed to change the Donald C. Cook Nuclear Plant, Units 1 and 2, TS Section 4.8.1.1.2.a.4.

At present, the TS section reads:

"Verifying that the diesel starts from ambient condition and that it accelerates to at least 514 rpm in less than or equal to 10 seconds,*

** The diesel generator start (10 seconds) from ambient conditions shall be performed at least once per 184 days in these surveillance tests. All other engine starts for the purpose of this surveillance testing and compensatory action may be at reduced acceleration rates as recommended by the manufacturer so that mechanical stress and wear on the diesel engine are minimized."

The amended TS section would read:

"Verifying the diesel starts from standby conditions and achieves in less than or equal to 10 seconds, voltage = 4160 ± 420 V, and frequency = 60 ± 1.2 Hz,*

** The diesel generator start (10 seconds) from standby conditions shall be performed at least once per 184 days in these surveillance tests. All other engine starts for the purpose of this surveillance testing and compensatory action may be at reduced acceleration rates as recommended by the manufacturer so that mechanical stress and wear on the diesel engine are minimized."

In response to the staff's concerns, the licensee revised this TS section to be consistent with Improved Standard TS. This is an improvement from the existing TS, and, hence, the proposed TS change is acceptable.

2.3 Proposed Changes to TS Section 4.8.1.1.2.a.5 for Both Units

The licensee proposed to change the Donald C. Cook Nuclear Plant, Units 1 and 2, TS Section 4.8.1.1.2.a.5.

At present, the TS section reads:

"Verifying that the generator is loaded to greater than or equal to 1750 kw and that it operates for greater than or equal to 60 minutes and verifying that the generator output breaker to the emergency bus is OPERABLE,"

The amended TS section would read:

"Verifying the diesel is synchronized and loaded and operates for greater than or equal to 60 minutes at a load of 3500 kw,**

"** Momentary load transients do not invalidate this test."

In response to the staff's concerns, the licensee revised this section of the TS to be consistent with the Improved Standard TS. This is an improvement from the existing TS, and, hence, the proposed TS change is acceptable.

2.4 Administrative Change

The existing ** footnote for TS 4.8.1.1.2.b. has been revised to ***, and the existing * footnote for TS 4.8.1.1.2.e.7. has been revised to ** to allow for insertion of the new footnotes discussed above. This administrative change is acceptable.

2.5 Summary

On the basis of its review, the staff finds the licensee's request to reduce the duration of Surveillance Requirement 4.8.1.1.2.e.7 from 24 hours to 8 hours to be acceptable. Overall, the staff finds the revised TS to be an improvement over the existing TS, and, as a result finds the requested TS changes acceptable.

3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Michigan State official was notified of the proposed issuance of the amendments. The State official had no comments.

4.0 ENVIRONMENTAL CONSIDERATION

The amendments change surveillance requirements. The staff has 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 the amendments involve no significant hazards consideration and there has been no public comment on such finding (60 FR 65682). Accordingly, the 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 the amendments.

5.0 CONCLUSION

The staff has 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, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendments will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: Amar N. Pal, NRR

Date: March 11, 1996