



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

June 20, 1996

Mr. Douglas R. Gipson  
Senior Vice President  
Nuclear Generation  
Detroit Edison Company  
6400 North Dixie Highway  
Newport, MI 48166

SUBJECT: FERMI-2 - ISSUANCE OF AMENDMENT RE: DELETION OF EMERGENCY DIESEL GENERATOR (EDG) ACCELERATED TESTING FREQUENCY AND REPORTING REQUIREMENTS IN ACCORDANCE WITH GENERIC LETTER 94-01 (TAC NO. M94170)

Dear Mr. Gipson:

The Commission has issued the enclosed Amendment No. 107 to Facility Operating License No. NPF-43 for the Fermi-2 facility. The amendment consists of changes to the Technical Specifications (TS) in partial response to your letter dated November 22, 1995. The remainder of your submittal related to extending the allowed outage time for EDGs from 3 to 7 days will be reviewed under separate correspondence.

The amendment revises the TS to remove Table 4.8.1.1.2-1 and establishes a single test frequency of once every 31 days for EDG surveillance testing required by TS 4.8.1.1.2.a. The amendment also deletes the special reporting requirements contained in TS 4.8.1.1.3. TS 4.8.1.2 which lists electrical power surveillances to be performed when the plant is shutdown is also being revised to remove TS 4.8.1.1.3 from the list. The related Bases are also being revised to refer to Generic Letter 94-01 as the governing staff guidance for these changes. However, the Bases change related to the allowed out of service time for the EDGs will be reviewed as part of the separate correspondence mentioned above.

The approval of these changes is in accordance with the staff's Generic Letter 94-01 dated May 31, 1994, and your commitment to implement within 90 days of issuance of this amendment, a maintenance program for monitoring and maintaining EDG performance consistent with the provisions of 10 CFR 50.65 and the guidance in Regulatory Guide 1.160, Revision 1,

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Mr. Douglas R. Gipson

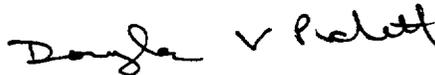
- 2 -

June 20, 1996

"Monitoring the Effectiveness of Maintenance at Nuclear Power Plants," dated January 1995, as applicable to EDGs.

A copy of our Safety Evaluation is also enclosed. The notice of issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,



Douglas V. Pickett, Project Manager  
Project Directorate III-1  
Division of Reactor Projects - III/IV  
Office of Nuclear Reactor Regulation

Docket No. 50-341

Enclosures: 1. Amendment No. 107 to NPF-43  
2. Safety Evaluation

cc w/encl: See next page



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

DETROIT EDISON COMPANY

DOCKET NO. 50-341

FERMI-2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 107  
License No. NPF-43

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by the Detroit Edison Company (the licensee) dated November 22, 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.

DATED: June 20, 1996

AMENDMENT NO. 107 TO FACILITY OPERATING LICENSE NO. NPF-43-FERMI-2

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Mr. Douglas R. Gipson

- 2 -

June 20, 1996

"Monitoring the Effectiveness of Maintenance at Nuclear Power Plants," dated January 1995, as applicable to EDGs.

A copy of our Safety Evaluation is also enclosed. The notice of issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,

Original Signed By:

Douglas V. Pickett, Project Manager\*  
Project Directorate III-1  
Division of Reactor Projects - III/IV  
Office of Nuclear Reactor Regulation

Docket No. 50-341

Enclosures: 1. Amendment No.107 to NPF-43  
2. Safety Evaluation

cc w/encl: See next page

\*Signature block changed to reflect current project manager.

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| DATE   | 5/9/96              |   | 5/9/96             |   | 6/5/96           | 6/11/96       | 6/18/96             |   |

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5/10/96  
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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. NPF-43 is hereby amended to read as follows:

Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 107, and the Environmental Protection Plan contained in Appendix B, are hereby incorporated in the license. DECo shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. This license amendment is effective as of the date of its issuance with full implementation within 60 days.

FOR THE NUCLEAR REGULATORY COMMISSION



Douglas V. Pickett, 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: June 20, 1996

ATTACHMENT TO LICENSE AMENDMENT NO. 107

FACILITY OPERATING LICENSE NO. NPF-43

DOCKET NO. 50-341

Replace the following pages of the Appendix "A" Technical Specifications with the attached pages. The revised pages are identified by amendment number and contain vertical lines indicating the area of change.

REMOVE

xxiv  
3/4 8-3  
3/4 8-4\*  
3/4 8-7  
3/4 8-8  
3/4 8-9  
3/4 8-10\*  
B 3/4 8-1  
B 3/4 8-2\*

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xxiv  
3/4 8-3  
3/4 8-4\*  
3/4 8-7  
3/4 8-8  
3/4 8-9  
3/4 8-10\*  
B 3/4 8-1  
B 3/4 8-2\*

\*Overleaf page provided to maintain document completeness. No changes contained on these pages.

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## ELECTRICAL POWER SYSTEMS

### SURVEILLANCE REQUIREMENTS

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4.8.1.1.1 Each of the above required independent circuits between the offsite transmission network and the onsite Class 1E distribution system shall be determined OPERABLE at least once per 7 days by verifying correct breaker alignments and indicated power availability.

4.8.1.1.2 Each of the above required diesel generators shall be demonstrated OPERABLE:

- a. At least once per 31 days on a STAGGERED TEST BASIS by:
  1. Verifying the fuel level in the day fuel tank.
  2. Verifying the fuel level in the fuel storage tank.
  3. Verifying the fuel transfer pump starts and transfers fuel from the storage system to the day fuel tank.
  4. Verifying the diesel starts from ambient condition and accelerates to at least 900 rpm in less than or equal to 10 seconds.\* The generator voltage and frequency shall be  $4160 \pm 420$  volts and  $60 \pm 1.2$  Hz within 10 seconds after the start signal. The diesel generator shall be started for this test by using one of the following signals:
    - a) Manual.
    - b) Simulated loss-of-offsite power by itself.
    - c) Simulated loss-of-offsite power in conjunction with an ESF actuation test signal.
    - d) An ESF actuation test signal by itself.
  5. Verifying the diesel generator is synchronized, loaded to greater than or equal to an indicated 2500-2600 kW in accordance with the manufacturer's recommendations, and operates with this load for at least 60 minutes.
  6. Verifying the diesel generator is aligned to provide standby power to the associated emergency busses.
  7. Verifying the pressure in all diesel generator air start receivers to be greater than or equal to 215 psig.

\*All diesel generator starts for the purpose of this Surveillance Requirement may be preceded by an engine prelube period. The diesel generator start (10 sec) 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 may be preceded by other warmup procedures recommended by the manufacturer so that the mechanical stress and wear on the diesel engine is minimized.

## ELECTRICAL POWER SYSTEMS

### SURVEILLANCE REQUIREMENTS (Continued)

- 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 tank at least once per 31 days.
- c. By sampling new fuel oil in accordance with ASTM D4057-88 prior to addition to the storage tanks and:
  1. By verifying in accordance with the tests specified in ASTM D975-91 prior to addition to the storage tanks that the sample has:
    - a) An API Gravity of within 0.3 degrees at 60°F or a specified gravity of within 0.0016 at 60/60°F, when compared to the supplier's certificate or an absolute specific gravity at 60/60°F of greater than or equal to 0.83 but less than or equal to 0.89 or an API gravity at 60°F of greater than or equal to 27 degrees but less than or equal to 39 degrees.
    - b) A kinematic viscosity at 40°C of greater than or equal to 1.9 centistokes, but less than or equal to 4.1 centistokes, if gravity was not determined by comparison with the supplier's certification.
    - c) A flash point equal to or greater than 125°F, and
    - d) A clear and bright appearance with proper color when tested in accordance with ASTM D4176-86.
  2. By verifying with 31 days of obtaining the sample that the other properties specified in Table 1 of ASTM D975-91 are met when tested in accordance with ASTM D975-91.
- d. At least once every 31 days by obtaining a sample of fuel oil from the storage tanks in accordance with ASTM D2276-88, and verifying that total particulate contamination is less than 10 mg/liter when checked in accordance with ASTM D2276-88, Method A.
- e. At least once per 18 months 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.

ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

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- f. At least once per 10 years or after any modifications which could affect diesel generator interdependence by starting all four diesel generators simultaneously, during shutdown, and verifying that all four diesel generators accelerate to at least 900 rpm in less than or equal to 10 seconds.
- g. At least once per 10 years by:
  - 1. Draining each fuel oil storage tank, removing the accumulated sediment and cleaning the tank using a sodium hypochlorite solution, and
  - 2. Performing a pressure test of those portions of the diesel fuel oil system designed to Section III, subsection ND of the ASME Code in accordance with ASME Code Section 11 Article IWD-5000.

4.8.1.1.3 Reports - Not Used

TABLE 4.8.1.1.2-1

(Not Used)

## ELECTRICAL POWER SYSTEMS

### A.C. SOURCES - SHUTDOWN

#### LIMITING CONDITION FOR OPERATION

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3.8.1.2 As a minimum, the following A.C. electrical power sources shall be OPERABLE:

- a. One circuit between the offsite transmission network and the onsite Class 1E distribution system, and
- b. One onsite A.C. electrical power source, Division I or Division II, consisting of two emergency diesel generators, each diesel generator with:
  1. A day fuel tank containing a minimum of 210 gallons of fuel.
  2. A fuel storage system containing a minimum of 35,280 gallons of fuel.
  3. A fuel transfer pump.

APPLICABILITY: OPERATIONAL CONDITIONS 4, 5, and \*.

#### ACTION:

- a. With less than the above required A.C. electrical power sources OPERABLE, suspend CORE ALTERATIONS, handling of irradiated fuel in the secondary containment, operations with a potential for draining the reactor vessel and crane operations over the spent fuel storage pool when fuel assemblies are stored therein. In addition, when in OPERATIONAL CONDITION 5 with the water level less than 20 feet 6 inches above the reactor pressure vessel flange, immediately initiate corrective action to restore the required power sources to OPERABLE status as soon as practical.
- b. The provisions of Specification 3.0.3 are not applicable.

#### SURVEILLANCE REQUIREMENTS

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4.8.1.2 At least the above required A.C. electrical power sources shall be demonstrated OPERABLE per Surveillance Requirements 4.8.1.1.1 and 4.8.1.1.2, except for the requirement of 4.8.1.1.2.a.5.

\*When handling irradiated fuel in the secondary containment.

ELECTRICAL POWER SYS IS  
3/4.8.2 D.C. SOURCES  
D.C. SOURCES - OPERATING

LIMITING CONDITION FOR OPERATION

3.8.2.1 As a minimum, the following D.C. electrical power sources shall be OPERABLE:

- a. Division I, consisting of:
  1. 130 VDC Battery 2A-1.
  2. 130 VDC Battery 2A-2.
  3. Two 130 VDC full capacity chargers.
- b. Division II, consisting of:
  1. 130 VDC Battery 2B-1.
  2. 130 VDC Battery 2B-2.
  3. Two 130 VDC full capacity chargers.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

ACTION:

- a. With a battery charger in either Division I or Division II of the above D.C. electrical power sources inoperable, restore the inoperable battery charger to OPERABLE status or replace with the spare battery charger within 4 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
- b. With either Division I or Division II of the above required D.C. electrical power sources otherwise inoperable, restore the inoperable division to OPERABLE status within 2 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.<sup>#</sup>

SURVEILLANCE REQUIREMENTS

4.8.2.1 Each of the above required 130-volt batteries and chargers shall be demonstrated OPERABLE:

- a. At least once per 7 days by verifying that:
  1. The parameters in Table 4.8.2.1-1 meet the Category A limits, and
  2. Total battery terminal voltage is greater than or equal to 130 volts on float charge.
- b. At least once per 92 days and within 7 days after a battery discharge with battery terminal voltage below 105 volts, or battery overcharge with battery terminal voltage above 150 volts, by verifying that:
  1. The parameters in Table 4.8.2.1-1 meet the Category B limits,

<sup>#</sup>This ACTION may be delayed for up to 16 hours for battery chargers made inoperable due to loss of EECW cooling provided the ACTIONS of Specification 3.7.1.2 are taken.

## 3/4.8 ELECTRICAL POWER SYSTEMS

### BASES

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#### 3/4.8.1, 3/4.8.2 and 3/4.8.3 A.C. SOURCES, D.C. SOURCES and ONSITE POWER DISTRIBUTION SYSTEMS

The OPERABILITY of the A.C. and D.C. power sources and associated distribution systems during operation ensures that sufficient power will be available to supply the safety related equipment required for (1) the safe shutdown of the facility and (2) the mitigation and control of accident conditions within the facility. The minimum specified independent and redundant A.C. and D.C. power sources and distribution systems satisfy the requirements of General Design Criteria 17 of Appendix "A" to 10 CFR 50.

The ACTION requirements specified for the levels of degradation of the power sources provide restriction upon continued facility operation commensurate with the level of degradation. The OPERABILITY of the power sources is consistent with the initial condition assumptions of the safety analyses and is based upon maintaining at least one of the onsite A.C. and the corresponding D.C. power sources and associated distribution systems OPERABLE during accident conditions coincident with an assumed loss of offsite power and single failure of the other onsite A.C. or D.C. source.

The A.C. and D.C. source allowable out-of-service times are based on Regulatory Guide 1.93, "Availability of Electrical Power Sources", December 1974. When one diesel generator is inoperable, there is an additional ACTION requirement to verify that all required systems, subsystems, trains, components and devices, that depend on the remaining OPERABLE diesel generator as a source of emergency power, are also OPERABLE. This requirement is intended to provide assurance that a loss of offsite power event will not result in a complete loss of safety function of critical systems during the period one of the diesel generators is inoperable. The term verify as used in this context means to administratively check by examining logs or other information to determine if certain components are out-of-service for maintenance or other reasons. It does not mean to perform the surveillance requirements needed to demonstrate the OPERABILITY of the component.

The OPERABILITY of the minimum specified A.C. and D.C. power sources and associated distribution systems during shutdown and refueling ensures that (1) the facility can be maintained in the shutdown or refueling condition for extended time periods and (2) sufficient instrumentation and control capability is available for monitoring and maintaining the unit status.

The surveillance requirements for demonstrating the OPERABILITY of the diesel generators are in accordance with the recommendations of Regulatory Guide 1.9, "Selection of Diesel Generator Set Capacity for Standby Power Supplies", December 1979; Regulatory Guide 1.108, "Periodic Testing of Diesel Generator Units Used as Onsite Electric Power Systems at Nuclear Power Plants", Revision 1, August 1977; and Regulatory Guide 1.137, "Fuel-Oil Systems for Standby Diesel Generators", Revision 1, October 1979, as modified by Generic Letter 94-01, "Removal of Accelerated Testing and Special Reporting Requirements for Emergency Diesel Generators," May 1994.

## ELECTRICAL POWER SYSTEMS

### BASES

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#### A.C. SOURCES, D.C. SOURCES, and ONSITE POWER DISTRIBUTION SYSTEMS (Continued)

The surveillance requirements for demonstrating the OPERABILITY of the unit batteries are in accordance with the recommendations of Regulatory Guide 1.129 "Maintenance Testing and Replacement of Large Lead Storage Batteries for Nuclear Power Plants," February 1978, and IEEE Std 450-1972, "IEEE Recommended Practice for Maintenance, Testing, and Replacement of Large Lead Storage Batteries for Generating Stations and Substations."

Verifying average electrolyte temperature above the minimum for which the battery was sized, total battery terminal voltage on float charge, connection resistance values and the performance of battery service and discharge tests ensures the effectiveness of the charging system, the ability to handle high discharge rates and compares the battery capacity at that time with the rated capacity.

Table 4.8.2.1-1 specifies the normal limits for each designated pilot cell and each connected cell for electrolyte level, float voltage and specific gravity. The limits for the designated pilot cells float voltage and specific gravity, greater than 2.13 volts and 0.015 below the manufacturer's full charge specific gravity or a battery charger current that had stabilized at a low value, is characteristic of a charged cell with adequate capacity. The normal limits for each connected cell for float voltage and specific gravity, greater than 2.13 volts and not more than 0.020 below the manufacturer's full charge specific gravity with an average specific gravity of all the connected cells not more than 0.010 below the manufacturer's full charge specific gravity, ensures the OPERABILITY and capability of the battery.

Operation with a battery cell's parameter outside the normal limit but within the allowable value specified in Table 4.8.2.1-1 is permitted for up to 7 days. During this 7-day period: (1) the allowable values for electrolyte level ensures no physical damage to the plates with an adequate electron transfer capability; (2) the allowable value for the average specific gravity of all the cells, not more than 0.020 below the manufacturer's recommended full charge specific gravity ensures that the decrease in rating will be less than the safety margin provided in sizing; (3) the allowable value for an individual cell's specific gravity ensures that an individual cell's specific gravity will not be more than 0.020 below the manufacturer's full charge specific gravity and that the overall capability of the battery will be maintained within an acceptable limit; and (4) the allowable value for an individual cell's float voltage, greater than 2.07 volts, ensures the battery's capability to perform its design function.

The battery chargers and A.C. distribution systems rely on the Emergency Equipment Cooling Water (EECW) system to cool the associated rooms where this equipment is located. These components retain substantial capability without cooling following an accident. Based upon this capability, provisions have been made to delay the ACTION requirements for the inoperability of these components if caused by the lack of EECW cooling.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 107 TO FACILITY OPERATING LICENSE NO. NPF-43

DETROIT EDISON COMPANY

FERMI-2

DOCKET NO. 50-341

1.0 INTRODUCTION

By application dated November 22, 1995, Detroit Edison Company, (the licensee) requested changes to the Technical Specifications (TSs) for Fermi 2. The proposed changes would, in part, revise TS 4.8.1.1.2.a by (1) replacing Table 4.8.1.1.2-1, "Diesel Generator Test Schedule," with a single surveillance interval of at least once per 31 days and (2) deleting TS 4.8.1.1.3, "Reports." The NRC provided guidance on the proposed TS changes in Generic Letter (GL) 94-01, "Removal of Accelerated Testing and Special Reporting Requirements for Emergency Diesel Generators," dated May 31, 1994.

2.0 EVALUATION

The surveillance interval for testing of emergency diesel generators (EDGs) is currently governed by TS Table 4.8.1.1.2-1, which gives a diesel generator test schedule based on the number of EDG failures experienced in the last 20 and 100 tests. This practice of increasing the testing frequency with the number of failures is commonly referred to as accelerated testing. Accelerated testing is begun when an EDG experiences two or more failures in the last 20 tests or five or more failures in the last 100 tests. This increased test frequency continues until seven failure-free tests have been performed and the number of failures in the last 20 tests is reduced to one or zero.

As stated in Generic Letter 94-01, the staff has concluded that implementing the provisions of 10 CFR 50.65, "Requirements for Monitoring the Effectiveness of Maintenance at Nuclear Power Plants" (the maintenance rule), including the applicable regulatory guidance, will ensure reliable EDG performance. Measures to be implemented in accordance with the maintenance rule include performance of detailed root cause analysis of individual EDG failures, effective corrective actions to individual EDG failures, and implementation of EDG preventive maintenance. The staff has determined that the implementation of these measures will justify removing the accelerated testing requirements.

In its application dated November 22, 1995, the licensee committed to implement, within 90 days of issuance of the license amendment, a maintenance program for monitoring and maintaining EDG performance in accordance with the maintenance rule and Regulatory Guide (RG) 1.160, "Monitoring the Effectiveness of Maintenance at Nuclear Power Plants," excepting the reference in the RG to the trigger values contained in NUMARC guidance document 87-00, Revision 1, "Guidelines and Technical Bases for NUMARC Initiatives Addressing Station Blackout at LWRs [light-water reactors]," August 1991. As stated in Generic Letter 94-01, this exception is acceptable, and RG 1.160 has been revised (January 1995) to reflect this staff position. On the basis of the licensee's commitment to implement this maintenance program, the staff finds acceptable the proposed changes to (1) TS 4.8.1.1.2 to remove reference to TS Table 4.8.1.1.2-1 for test intervals and (2) to remove accelerated testing requirements for EDGs.

The licensee also proposes to delete TS 4.8.1.1.3, which requires licensees to report EDG failures to the NRC. The reporting requirements of TS 4.8.1.1.3 are associated with guidance contained in RG 1.108, "Periodic Testing of Diesel Generator Units Used as Onsite Electric Power Systems at Nuclear Power Plants." In developing GL 94-01, the staff determined that existing reporting requirements, such as those of 10 CFR 50.73, adequately ensure that the NRC learns of significant problems with EDG performance. Therefore, the staff finds the deletion of TS 4.8.1.1.3 to be acceptable.

### 3.0 STATE CONSULTATION

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

### 4.0 ENVIRONMENTAL CONSIDERATION

The amendment involves a change to a surveillance requirement. The staff has determined that the amendment involves 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 amendment involves no significant hazards consideration, and there has been no public comment on such finding (61 FR 7550). Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). This amendment also involves changes in recordkeeping, reporting, or administrative procedures or requirements. Accordingly, with respect to these items, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(10). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

5.0 CONCLUSION

The Commission 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 amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributors: W. Reckley  
T. Colburn

Date: June 20, 1996

Mr. Douglas R. Gipson  
Detroit Edison Company

Fermi-2

cc:

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