

March 14, 1988

Docket No. 50-341

Mr. B. Ralph Sylvia
Group Vice President - Nuclear
Operations
Detroit Edison Company
6400 North Dixie Highway
Newport, Michigan 48166

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Dear Mr. Sylvia:

SUBJECT: AMENDMENT NO. 15 TO FACILITY OPERATING LICENSE NO. NPF-43 (TAC NO. 66982)

The Commission has issued the enclosed Amendment No. 15 to Facility Operating License No. NPF-43 for the Fermi-2 facility. This amendment consists of changes to the Plant Technical Specifications in response to your letter dated January 15, 1988, as supplemented February 24, 1988.

The amendment revises the Fermi-2 Technical Specifications to allow the Low Pressure Coolant Injection (LPCI) system cross-tie valve to be placed in a closed position during plant shutdown to allow isolation of a LPCI subsystem for maintenance.

A copy of the Safety Evaluation supporting this amendment is enclosed. Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,

Theodore R Quay

Theodore R. Quay, Project Manager
Project Directorate III-1
Division of Reactor Projects - III, IV, V
& Special Projects

Enclosures:

1. Amendment No. 15 to NPF-43
2. Safety Evaluation

cc w/enclosure:
See next page

LA/PD31:DRSP
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3/9/88

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

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Group Vice President - Nuclear
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cc w/enclosure:
See next page

Mr. B. Ralph Sylvia
Detroit Edison Company

Fermi-2 Facility

cc:

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

DETROIT EDISON COMPANY
WOLVERINE POWER SUPPLY COOPERATIVE, INCORPORATED

DOCKET NO. 50-341

FERMI-2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 15
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 January 15, 1988, as supplemented February 24, 1988, 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 the 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. 15, 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.

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

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in black ink, appearing to read "M. Virgilio", with a stylized, cursive script.

Martin J. Virgilio, Director
Project Directorate III-1
Division of Reactor Projects - III, IV, V
& Special Projects

Attachment:
Changes to the Technical
Specifications

Date of Issuance: March 14, 1988

ATTACHMENT TO LICENSE AMENDMENT NO. 15

FACILITY OPERATING LICENSE NO. NPF-43

DOCKET NO. 50-341

Replace the following page of the Appendix "A" Technical Specifications with the enclosed page. The revised page is identified by Amendment number and contains a vertical line indicating the area of change. The corresponding overleaf page is also provided to maintain document completeness.

REMOVE

3/4 5-7

INSERT

3/4 5-7

EMERGENCY CORE COOLING SYSTEMS

SURVEILLANCE REQUIREMENTS

4.5.2.1 At least the above required ECCS shall be demonstrated OPERABLE per Surveillance Requirement 4.5.1, with the exception that, for the LPCI system, the cross-tie valve may be closed to isolate a subsystem if the OPERABLE subsystem is made capable of injection to the reactor vessel.

4.5.2.2 The core spray system shall be determined OPERABLE at least once per 12 hours by verifying the condensate storage tank required volume when the condensate storage tank is required to be OPERABLE per Specification 3.5.2.a.2.b.

EMERGENCY CORE COOLING SYSTEMS

3/4.5.3 SUPPRESSION CHAMBER

LIMITING CONDITION FOR OPERATION

3.5.3 The suppression chamber shall be OPERABLE:

- a. In OPERATIONAL CONDITIONS 1, 2, and 3 with a contained water volume of at least 121,080 ft³, equivalent to a level of 14'4" (-2 inches indication).
- b. In OPERATIONAL CONDITIONS 4 and 5* with a contained volume of at least 64,550 ft³, equivalent to a level of 9'0" (-66 inches indication), except that the suppression chamber level may be less than the limit or may be drained provided that:
 1. No operations are performed that have a potential for draining the reactor vessel,
 2. The reactor mode switch is locked in the Shutdown or Refuel position,
 3. The condensate storage tank contains at least 300,000** available gallons of water, equivalent to a level of 18', and
 4. The core spray system is OPERABLE per Specification 3.5.2 with an OPERABLE flow path capable of taking suction from the condensate storage tank and transferring the water through the spray sparger to the reactor vessel.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, 3, 4, and 5*.

ACTION:

- a. In OPERATIONAL CONDITION 1, 2, or 3 with the suppression chamber water level less than the above limit, restore the water level to within the limit within 1 hour or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
- b. In OPERATIONAL CONDITION 4 or 5* with the suppression chamber water level less than the above limit or drained and the above required conditions not satisfied, suspend CORE ALTERATIONS and all operations that have a potential for draining the reactor vessel and lock the reactor mode switch in the Shutdown position. Establish SECONDARY CONTAINMENT INTEGRITY within 8 hours.

*The suppression chamber is not required to be OPERABLE provided that the reactor vessel head is removed, the cavity is flooded, or being flooded from the suppression pool, the spent fuel pool gates are removed when the cavity is flooded, and the water level is maintained within the limits of Specifications 3.9.8 and 3.9.9.

**The 300,000 gallons accounts for 150,000 gallons for CSS and 150,000 gallons for HPCI/RCIC.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING AMENDMENT NO. 15 TO FACILITY OPERATING LICENSE NO. NPF-43

DETROIT EDISON COMPANY

WOLVERINE POWER SUPPLY COOPERATIVE, INCORPORATED

FERMI-2

DOCKET NO. 50-341

1.0 INTRODUCTION

The current Fermi-2 Technical Specifications require the Low Pressure Coolant Injection (LPCI) system cross-tie valve to be open as a requirement for LPCI system operability in all operational conditions. By letter dated January 15, 1988, Detroit Edison Company (DECo) requested a change in the Fermi-2 Technical Specifications that would allow closure of this cross-tie in Operational Conditions 4 and 5 to allow isolation of a LPCI subsystem for maintenance. Additional clarification to the January 15, 1988 letter was provided by DECo in a letter dated February 24, 1988. This clarification provided supplemental information and did not alter the proposed action noticed in the Federal Register on February 10, 1988, or affect the staff's initial determination of the action.

2.0 EVALUATION

The LPCI cross-tie valve allows LPCI injection into the unaffected recirculation system loop in the event of a break in one of the two loops. Loop selection is accomplished by a loop logic which senses the broken loop and diverts the LPCI flow into the unbroken loop. The cross-tie is needed for reactor operation in Operational Condition 1 (power Operation), Operational Condition 2 (startup) and Operational Condition 3 (hot shutdown). With the reactor in Operational Conditions 4 and 5, cold shutdown and refueling, respectively, the reactor has cooled down substantially and the emergency core cooling flow needed to keep the core cooled in the event of a break in the reactor coolant system is greatly reduced so that the cross-tie is unnecessary. The NRC staff's Safety Evaluation dated July 1981 indicates that long-term cooling is provided by one LPCI and one core spray. Therefore, the licensee's request to modify the Fermi-2 Technical Specifications to allow closing of the cross-tie in Operational Conditions 4 and 5 is acceptable.

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3.0 ENVIRONMENTAL CONSIDERATION

This amendment involves a change in the installation and use of a facility component located within the restricted area as defined in 10 CFR Part 20 and changes a surveillance requirement. We have determined that this amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents which 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 this amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, this amendment meets 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 this amendment.

4.0 CONCLUSION

We have 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, and (2) 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.

Principal Contributors: T. Quay
R. Jones

Dated: March 14, 1988