

January 11, 1988

DISTRIBUTION

Docket No. 50-341
Mr. B. Ralph Sylvia
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Operations
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Docket File PD31 Plant Gray
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Dear Mr. Sylvia:

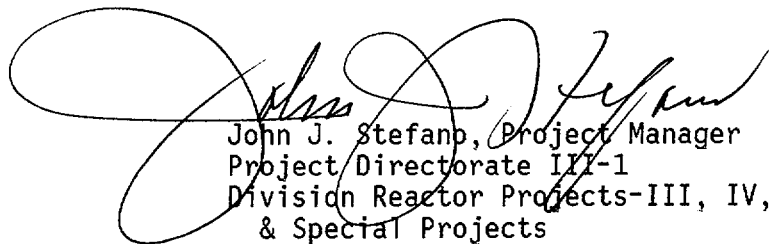
Subject: AMENDMENT NO. 13 TO FACILITY OPERATING LICENSE NO. NPF-43;
TECHNICAL SPECIFICATION 3/4.8.2.1 (TAC NO. 65499)

The Commission has issued the enclosed Amendment No. 13 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 May 27, 1987 (NRC-87-0068).

The amendment revises Technical Specification Table 4.8.2.1-1 entitled, "Battery Surveillance Requirements," to delete Table Notations (7) and (8) and the applicable Bases which specify battery surveillance parameters for a nominal specific gravity electrolyte cell value of 1.250.

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,


John J. Stefano, Project Manager
Project Directorate III-1
Division Reactor Projects-III, IV, V
& Special Projects

Enclosures:

- 1. Amendment No. 13 to NPF-43
- 2. Safety Evaluation

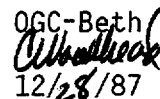
cc w/enclosure:


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LA/PD31:DRSR
RIngram
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PM/PD31:DRSP
JStefano:lt
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D/PD31:DRSP
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OGC-Beth

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SELB 
F. Rosa
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Mr. B. Ralph Sylvia
Detroit Edison Company

Fermi-2 Facility

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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. 13
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 May 27, 1987, 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. 13, 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 amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Albert W. McGowan for

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: January 11, 1988

ATTACHMENT TO LICENSE AMENDMENT NO.13

FACILITY OPERATING LICENSE NO. NPF-43

DOCKET NO. 50-341

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

REMOVE

3/4 8-12
3/4 8-12a
B 3/4 8-2a

INSERT

3/4 8-12
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ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

2. There is no visible corrosion at either terminals or connectors, or the connection resistance of these items is less than 150×10^{-6} ohm, and
 3. The average electrolyte temperature of ten of the connected cells is above 60°F.
- c. At least once per 18 months by verifying that:
1. The cells, cell plates and battery racks show no visual indication of physical damage or abnormal deterioration,
 2. The cell-to-cell and terminal connections are clean, tight, free of corrosion and coated with anticorrosion material,
 3. The resistance of each cell-to-cell and terminal connection is less than or equal to 150×10^{-6} ohm, and
 4. The battery charger will supply at least 100 amperes at a minimum of 129 volts for at least 4 hours.
- d. At least once per 18 months, during shutdown, by verifying that either:
1. The battery capacity is adequate to supply and maintain in OPERABLE status all of the actual emergency loads for the design duty cycle (4 hours) when the battery is subjected to a battery service test, or
 2. The battery capacity is adequate to supply a dummy load of the following profile while maintaining the battery terminal voltage greater than or equal to 105 or 210 volts, as applicable:
 - a) Batteries 2PA and 2PB greater than or equal to 710 amperes during the initial 6 seconds of the test.
 - b) Batteries 2PA and 2PB greater than 182 amperes during the next 42 seconds of the test.
 - c) Batteries 2PA and 2PB greater than or equal to 54 amperes during the next 4 hours of the test.
 - d) Batteries 2PA and 2PB greater than or equal to 480 amperes during the last 6 seconds of the test.
- e. At least once per 60 months during shutdown by verifying that the battery capacity is at least 80% of the manufacturer's rating when subjected to a performance discharge test. At this once per 60-month interval, this performance discharge test may be performed in lieu of the battery service test.
- f. At least once per 18 months during shutdown, performance discharge tests of battery capacity shall be given to any battery that shows signs of degradation or has reached 85% of the service life expected for the application. Degradation is indicated when the battery capacity drops more than 10% of rated capacity from its average on previous performance tests, or is below 90% of the manufacturer's rating.

TABLE 4.8.2.1-1
BATTERY SURVEILLANCE REQUIREMENTS

Parameter	CATEGORY A ⁽¹⁾		CATEGORY B ⁽²⁾	
	Limits for each designated pilot cell	Limits for each connected cell	Limits for each connected cell	Allowable ⁽³⁾ value for each connected cell
Electrolyte Level	>Minimum level indication mark, and $\leq \frac{1}{4}$ " above maximum level indication mark	>Minimum level indication mark, and $< \frac{1}{4}$ " above maximum level indication mark		Above top of plates, and not overflowing
Float Voltage	≥ 2.13 volts	≥ 2.13 volts ⁽⁴⁾		> 2.07 volts
Specific Gravity ⁽⁵⁾	≥ 1.195 ⁽⁶⁾	≥ 1.190	Average of all connected cells > 1.200	Not more than 0.020 below the average of all connected cells Average of all connected cells ≥ 1.190 ⁽⁶⁾

(1) For any Category A parameter(s) outside the limit(s) shown, the battery may be considered OPERABLE provided that within 24 hours all the Category B measurements are taken and found to be within their allowable values, and provided all Category A and B parameter(s) are restored to within limits within the next 6 days.

(2) For any Category B parameter(s) outside the limit(s) shown, the battery may be considered OPERABLE provided that the Category B parameters are within their allowable values and provided the Category B parameter(s) are restored to within limits within 7 days.

(3) Any Category B parameter not within its allowable value indicates an inoperable battery.

(4) May be corrected for average electrolyte temperature.

(5) Corrected for electrolyte temperature and level.

(6) Or battery charging current is less than 2 amperes when on float charge.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 13 TO FACILITY OPERATING LICENSE NO. NPF-43

DETROIT EDISON COMPANY

WOLVERINE POWER SUPPLY COOPERATIVE, INCORPORATED

FERMI-2

DOCKET NO. 50-341

1.0 INTRODUCTION

By letter dated May 27, 1987, the Detroit Edison Company (the licensee) proposed a change to Technical Specification (TS) Table 4.8.2.1-1 entitled, "Battery Surveillance Requirements," to delete Table Notations (7) and (8) and the applicable TS Bases which specify battery surveillance parameters for a nominal specific gravity electrolyte of 1.250. The basis for the changes was that the parameters addressed by Table Notations (7) and (8) are no longer necessary due to the replacement of the Division II batteries with cells containing a nominal specific gravity electrolyte of 1.210.

2.0 EVALUATION

The licensee previously had requested a TS change (in May 1986) reflecting new float voltage and specific gravity values for the planned replacement of both Division I and Division II batteries. The Division I battery replacements, containing the new specific gravity value of 1.210, were to be made during a maintenance outage scheduled in May-June 1986. The Division II battery replacements were to be made at a later outage. This necessitated the specification of the new and old specific gravity values in TS Table 4.8.2.1-1 and the addition of Table Notations (7) and (8) in that table. The change proposed in May 1986 was found acceptable by the NRC staff and effectuated by the issuance on June 13, 1986, of Amendment No. 2 to the Fermi-2 Facility Operating License No. NPF-43.

However, the replacement of both the Division I and the Division II batteries with cells containing the new specific gravity value of 1.210 was accomplished during the May-June 1986 maintenance outage, subsequent to the issuance of License Amendment No. 2, thereby making the addition of Table Notations (7) and (8) to TS Table 4.8.2.1-1 unnecessary. Since the change proposed by the licensee's letter dated May 27, 1987, amends the TS in conformance with the as-built plant, and the technical basis for the change in battery cell specific gravity electrolyte was approved by License Amendment No. 2, we agree that the deletion of Table Notations (7) and (8) is acceptable.

3.0 ENVIRONMENTAL CONSIDERATION

This amendment involves changes to a surveillance requirement. We have 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 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 nor 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.

5.0 REFERENCES

1. Letter (and enclosure) from F. Agosti (DECo) to the NRC dated May 27, 1987, "Proposed Technical Specification Change - D.C. Sources - Operating (3/4.8.2.1)"
2. Letter (and enclosure) from E. Adensam (NRC) to B.R. Sylvia (DECo) dated June 13, 1986, "Issuance of Amendment No. 2 to Facility Operating License No. NPF-43, Fermi-2"

Principal Contributor: John J. Stefano, NRR

Dated: January 11, 1988