

September 7, 1989

Docket No. 50-341

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

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Dear Mr. Sylvia:

SUBJECT: FERMI-2 - TRANSMITTAL OF ENVIRONMENTAL ASSESSMENT (TAC NOS.  
72981 and 73337)

Enclosed is a copy of an "Environmental Assessment and Finding of No Significant Impact" for your information. This assessment relates to your applications dated April 3 and May 31, 1989, as supplemented by letter dated August 23, 1989 to revise the Operating License and Technical Specifications for the operation of Fermi-2 during Cycle 2 with a reload of General Electric (GE) manufactured fuel assemblies and GE analyses and methodologies. In addition, changes are also proposed to allow operation of Fermi-2 with an Extended Load Line Limit Region (ELLLR).

The assessment has been sent to the Office of the Federal Register for publication.

Sincerely,

**Original signed by**

John F. Stang, Project Manager  
Project Directorate III-1  
Division of Reactor Projects - III,  
IV, V & Special Projects  
Office of Nuclear Reactor Regulation

Enclosure:  
As stated

cc w/enclosure:  
See next page

DFOI  
/

\*see previous page for concurrence  
LA/PD31:DRSP PM/PD31:DRSP  
PSHUTTLEWORTH\* JSTANG: cr\*/sam  
8/12/89 8/12/89

J97  
(A)D/PD31:DRSP  
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CBarth\*  
8/24/89

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Division of Reactor Projects - III,  
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Office of Nuclear Reactor Regulation

Enclosure:  
As stated

cc w/enclosure:  
See next page

*PM for*  
LA/PD31:DRSP  
PSHUTTLEWORTH  
8/12/89

*[Signature]*  
PM/PD31:DRSP  
JSTANG:cr  
8/11/89

(A)D/PD31:DRSP  
LYANDELL  
8/ /89

OGC *OB check of revision*  
8/24/89



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

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Sincerely,

A handwritten signature in cursive script, appearing to read "John F. Stag".

John F. Stag, Project Manager  
Project Directorate III-1  
Division of Reactor Projects - III,  
IV, V & Special Projects  
Office of Nuclear Reactor Regulation

Enclosure:  
As stated

cc w/enclosure:  
See next page

Mr. B. Ralph Sylvia  
Detroit Edison Company

Fermi-2 Facility

cc:

Mr. Ronald C. Callen  
Adv. Planning Review Section  
Michigan Public Service Commission  
6545 Mercantile Way  
P. O. Box 30221  
Lansing, Michigan 48909

Ms. Lynn Goodman  
Supervisor - Licensing  
Detroit Edison Company  
Fermi Unit 2  
6400 North Dixie Highway  
Newport, Michigan 48166

John Flynn, Esq.  
Senior Attorney  
Detroit Edison Company  
2000 Second Avenue  
Detroit, Michigan 48226

Nuclear Facilities and Environmental  
Monitoring Section Office  
Division of Radiological Health  
P. O. Box 30035  
Lansing, Michigan 48909

Mr. Walt Rogers  
U.S. Nuclear Regulatory Commission  
Resident Inspector's Office  
6450 W. Dixie Highway  
Newport, Michigan 48166

Monroe County Office of Civil  
Preparedness  
963 South Raisinville  
Monroe, Michigan 48161

Regional Administrator, Region III  
U.S. Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

UNITED STATES NUCLEAR REGULATORY COMMISSIONDETROIT EDISON COMPANYWOLVERINE POWER SUPPLY COOPERATIVE, INC.DOCKET NO. 50-341FERMI-2ENVIRONMENTAL ASSESSMENT AND FINDING OFNO SIGNIFICANT IMPACT

The U. S. Nuclear Regulatory Commission (the Commission) is considering issuance of an amendment to Facility Operating License No. NPF-43, issued to the Detroit Edison Company (DECo) and the Wolverine Power Supply Cooperative, Incorporated (the licensees) for the operation of Fermi-2 located in Monroe County, Michigan.

ENVIRONMENTAL ASSESSMENTIdentification of Proposed Action

The proposed amendment would revise provisions in the Fermi-2 Operating License and operation of Fermi-2 during Cycle 2 with a reload of General Electric (GE) manufactured fuel assemblies and GE analyses and methodologies. In addition, TS changes are also proposed to allow operation of Fermi-2 with an Extended Load Line Limit Region (ELLLR).

The proposed action is in accordance with the licensees' applications dated April 3 and May 31, 1989, as supplemented by letter dated August 23, 1989.

The August 23, 1989 letter provided only additional information and clarifications which did not alter the substance or scope of the original applications.

The Need for the Proposed Action

The proposed changes to the TSs are required in order to provide appropriate TS requirements and limits related to cycle 2 operations and the analyzed operating domain for cycle 2.

Environmental Impacts of the Proposed Action

The Commission has completed its evaluation of the proposed revision to the Operating License and the TS. The proposed changes relate to Maximum Average Planar Linear Heat Generation Rate (MAPLHGR) and Linear Heat Generation Rate (LHGR) limits for the new fuel, Minimum Critical Power Ratio (MCPR) limits for all of the fuel using Cycle 2 core and transient parameters, extended operating regions and conditions, and editorial changes. The proposed change will not increase fuel burnup in excess of the levels evaluated on the "Final Environmental Statement related to operation of Fermi-2," dated August 1981.

Therefore, the proposed changes do not increase the probability or consequences of any accidents, no changes are being made in the types of any effluents that may be released offsite, and there is no significant increase in the allowable individual or cumulative occupational radiation exposure. Accordingly, the Commission concludes that this proposed action would result in no significant radiological impact and could result in the reduction of the radiological impacts.

With regard to potential nonradiological impacts, the proposed changes to the TS involve systems located within the restricted area as defined in 10 CFR Part 20. They do not affect nonradiological plant effluents and have no other environmental impact. Therefore, the Commission concludes that there are no significant nonradiological environmental impacts associated with the proposed amendment.

The Notices of Consideration of Issuance of Amendment and Opportunity for Hearing in connection with this action were published in the FEDERAL REGISTER on July 11, 1989 (54 FR 29116 and 54 FR 29122). No request for hearing or petition for leave to intervene was filed following these notices.

#### Alternative to the Proposed Action

Because the Commission has concluded that there is no significant environment impact associated with the proposed amendment, any alternative would have either no or greater environmental impact. The principal alternative would be to deny the requested amendment. This would result in the TS not correctly reflecting the nuclear core design for Cycle 2 operation.

#### Alternative Use of Resources

This action involves no use of resources not previously considered in connection with the "Final Environmental Statement Related to Operation of Fermi-2, dated August 1981.

#### Agencies and Persons Consulted

The Commission's staff reviewed the licensees' request and did not consult other agencies or persons.

#### Finding of No Significant Impact

The Commission has determined not to prepare an environmental impact statement for the proposed license amendments.

Based upon the foregoing environmental assessment, the Commission concludes that the proposed action will not have a significant effect on the quality of the human environment.

For further details with aspect to this action, see the applications for amendment dated April 3 and May 31, 1989 which are available for public inspection at the Commissions's Public Document Room 2120 L Street, NW., Washington, DC, and at the Monroe County Library System, 3700 South Custer Road, Monroe, Michigan 48161.

Dated at Rockville, Maryland, this 7th day of September 1989

FOR THE NUCLEAR REGULATORY COMMISSION

*John O. Thoma*

John O. Thoma, Acting Director  
Project Directorate III-1  
Division of Reactor Projects - III,  
IV, V & Special Projects  
Office of Nuclear Reactor Regulation