

August 23, 1989

Docket No. 50-341

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

DISTRIBUTION

Docket File

NRC PDR
PD31 Plan Gray
GHolahan
MVirgilio
PShuttleworth
JStang
OGC

Local PDR
BGrimes
ACRS (10)
GPA/PA

Dear Mr. Sylvia:

SUBJECT: FERMI-2 - TRANSMITTAL OF ENVIRONMENTAL ASSESSMENT (TAC NO. 73339)

Enclosed is a copy of an "Environmental Assessment and Finding of No Significant Impact" for your information. This assessment relates to your application dated May 10, 1989, to revise the Technical Specifications to reflect design changes for the Reactor Protection System (RPS) scheduled to be completed during the upcoming refueling outage scheduled for September 1989. The design change will eliminate the Backup Manual Scram function and add further redundancy to the RPS capability to manually initiate a scram.

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

Enclosure:
As stated

cc w/enclosures:
See next page

FERMI 2 EA TAC 73339 .

DFo/
1/1

for LA/PD31:DRSP
PShuttleworth
08/12/89

PM/PD31:DRSP
JStang
08/14/89

507
(A)D/PD31:DRSP
LYandell
08/23/89

Widits
OGC
C. Bachmann
08/16/89

8908310158 890823
PDR ADCK 05000341
P PDC

OFFICIAL RECORD COPY

CP



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

August 23, 1989

Docket No. 50-341

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

Dear Mr. Sylvia:

SUBJECT: FERMI-2 - TRANSMITTAL OF ENVIRONMENTAL ASSESSMENT (TAC NO. 73339)

Enclosed is a copy of an "Environmental Assessment and Finding of No Significant Impact" for your information. This assessment relates to your application dated May 10, 1989, to revise the Technical Specifications to reflect design changes for the Reactor Protection System (RPS) scheduled to be completed during the upcoming refueling outage scheduled for September 1989. The design change will eliminate the Backup Manual Scram function and add further redundancy to the RPS capability to manually initiate a scram.

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

Sincerely,

A handwritten signature in cursive script, reading "John F. Stang", is written over the typed name.

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

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

U.S. NUCLEAR REGULATORY COMMISSION
DETROIT EDISON COMPANY
WOLVERINE POWER SUPPLY COOPERATIVE, INC.
DOCKET NO. 50-341
FERMI-2
ENVIRONMENTAL ASSESSMENT AND FINDING OF
NO 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 ASSESSMENT

Identification of Proposed Action:

The proposed amendment would revise the Technical Specifications (TS) for the Reactor Protection System (RPS) to reflect design changes for the Reactor Protection System (RPS) scheduled to be completed during the upcoming refueling outage scheduled for September 1989. The design change will eliminate the Backup Manual Scram function and add further redundancy to the RPS capability to manually initiate a scram.

The proposed action is in accordance with the licensees' application for amendment dated May 10, 1989.

The Need for the Proposed Action:

The proposed changes to the TS are required in order for the TS to include appropriate requirements for the as-modified RPS design.

Environmental Impacts of the Proposed Action:

The Commission has completed its evaluation of the proposed revision to the TS. The proposed revision would reflect design changes which are being

8908310162 890823
PDR ADOCK 05000341
P FDC

made to eliminate the Backup Manual Scram (BUMS) feature. The BUMS feature when actuated causes a concurrent isolation for the Main Steam Isolation Valves (MSIV). This is undesirable since the MSIV isolation results in the loss of the main condenser as a heat sink. In place of the BUMS feature, DECo is providing an additional channel in each RPS trip logic for the Manual Scram and Reactor Mode Switch Position Scram features. These additional channels provide an alternative method to meet the regulatory and design requirements for manual scram redundancy. 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.

Alternative to the Proposed Action:

Because the Commission has concluded that there is no significant environmental 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 prevent the design modifications from being completed and would accordingly not alleviate the problems of the current BUMS design.

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 environment impact statement for the proposed license amendment.

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.

The Notice of Consideration of Issuance of Amendment and Opportunity for Hearing in connection with this action was published in the FEDERAL REGISTER on July 11, 1989 (54 FR 29117). No request for hearing or petition for leave to intervene was filed following this notice.

For further details with respect to this action, see the application for amendment dated April 3, 1989, which is available for public inspection at the Commission's Public Document Room, 2120 L Street, N.W., Washington, D.C., and at the Monroe County Library System, 3700 South Custer Road, Monroe, Michigan 48161.

Dated at Rockville, Maryland, this 23rd of August 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