

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

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