



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