

**Detroit
Edison**

Donald A. Wells
Manager Quality Assurance
(313) 237-9657

2000 Second Avenue
Detroit, Michigan 48226
(313) 237-8000

50-341

June 14, 1982
EF2-58745

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

Subject: Final Report of 10CFR50.55(e) Item on Defects in Eberline
Instrument Corporation Radiation Monitoring Equipment (#67)

Dear Mr. Keppler:

This is Detroit Edison's final report on the defects in Eberline Instrument Corporation radiation monitoring equipment problem. This problem was originally reported to Mr. H. Wescott of NRC Region III by Detroit Edison's Mr. H.A. Walker, Supervisor-Construction Quality Assurance, on April 23, 1982.

Eberline had notified the NRC that a potential for failure in the microprocessor based SPING series radiation monitors existed. As a consequence, the Project had reviewed the potential effects of this reported failure and had concluded that a loss of microprocessor memory did not result in the creation of a potential safety hazard on the specific Fermi 2 installation. The radiation channels which monitor the standby Gas Treatment System effluent following an accident (AXM's) were found not to be affected by this hardware failure. The balance of the gaseous effluent monitors identified by Eberline could be effectively rendered inoperable as monitoring instruments by this failure. Since these effluent monitors are not used in the mitigation and/or monitoring of any design basis events, their failure is not considered to be safety significant. Practically, each of the effluent monitors trips the HVAC system being monitored and a memory failure will generally result in a trip of the associated ventilation system.

Project Engineering has initiated a request for the field installation of the Eberline supplied piggyback circuit board which has been designed by the manufacturer to prevent the loss of data in the microprocessor memory. It is expected that these modifications will be installed in the system prior to the initial checkout of the monitors by the plant Start-Up Group.

If you have questions concerning this matter, please contact Mr. H.A. Walker, Supervisor-Construction Quality Assurance.

Very truly yours,



DAW/HAW/cp

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cc: Mr. Richard DeYoung, Director
Office of Inspection and Enforcement
Division of Reactor Inspection Programs
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Mr. Bruce Little, Resident Inspector
U.S. Nuclear Regulatory Commission
6450 North Dixie Highway
Newport, Michigan 48166