

DMB

Detroit
Edison

Fermi-2
6400 North Dixie Highway
Newport, Michigan 48166
(313) 586-4150

August 9, 1984
EF2-69664

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

Dear Mr. Keppler:

- Reference: (1) Fermi 2
NRC Docket No. 50-341
- (2) Letter, D. A. Wells to J. G. Keppler,
August 18, 1982, EF2-59386
- (3) Letter, D. A. Wells to J. G. Keppler,
April 15, 1983, EF2-62625

Subject: Final Report of 10CFR50.55(e) Item 75
"Rosemount Trip Units"

This is Detroit Edison's final report concerning calibration problems associated with Rosemount, model 510 DU, trip units. This item was originally reported as a potential deficiency on July 20, 1982. Additional information was provided in References (2) and (3).

Description of Deficiency

During calibration of Rosemount model 510 DU trip units, a high percentage of the units exhibited erratic operation and could not be calibrated. Subsequent investigation concluded that this erratic operation was caused by oxidation of the silver plated contacts of the trip setpoint potentiometer.

Analysis of Safety Implications

The Rosemount trip units are used for the Emergency Core Cooling Systems and the Reactor Protection System Limiting Safety System Settings. Erratic operation of these units could have adversely affected the function of these systems.

8408220193 840809
PDR ADOCK 05000341
S PDR

IE27 110

Mr. James G. Keppler
August 9, 1984
EF2-69664
Page 2

Corrective Action

The following actions have been completed to correct the problems and prevent recurrence:

- o All Rosemount trip unit potentiometers, manufactured with silver contacts, have been replaced. The replacement potentiometers are of similar type (supplied by Bourns Inc.) with gold plated contacts. Gold plated contacts are not susceptible to oxidation.
- o The trip units have been recalibrated and subsequent preoperational testing of this instrumentation is presently in progress. No additional problems have been encountered to date.
- o The trip unit cabinets are installed in their permanent plant location and will be under an established calibration surveillance program in accordance with Technical Specifications, upon completion of pre-operational testing.

This item is considered an isolated incident because of the unique combination of contributive causes of construction environment and the selection of silver for contact plating.

This is Detroit Edison's final report on this item. If you have questions concerning this matter, please contact Mr. Lewis P. Bregni, (313) 586-5083.

Sincerely,

cc: Mr. P. M. Byron
Mr. R. C. DeYoung
Mr. R. C. Knop

