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**Detroit
Edison**

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December 5, 1983
EF2-66482

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

Subject: Report of 10CFR50.55(e) Item on Thermal Separation
Criteria Violations (#105)

Dear Mr. Keppler:

On November 4, 1983, Detroit Edison's Mr. J.E. Durkin, Quality Engineer - Construction Quality Assurance, telephoned Mr. P. Pelke of NRC Region III to report on Thermal Separation Criteria violations in the drywell at the Fermi 2 site.

A number of instances exist where thermal separation between electrical cables and hot pipes or equipment is less than specified. This could cause a premature failure of electrical cables.

The Engineering Research Department did studies on heat transfer from steam pipes to electrical conduits and trays. Various curves were developed between pipe distance/diameter ratios vs pipe skin temperature and temperature rise. Tables were developed from these curves. Design Calculation 2119 "Calculation of Separation Distance to be Maintained Between Electrical Conduits, Trays and Steam Lines (Mechanical Hot Pipes)" was issued listing the curves and the tables. Separation distance between electrical conduits or trays and steam pipes can be calculated from the tables in DC 2119.

Edison Field Engineering has issued a design change revising the electrical specification for inspection purposes in the drywell. This design change is based on DC 2119. Currently, a walkdown is being performed in the drywell per the design change. Any violations will be evaluated by the Engineering Research Department and the Generation Engineering Department on a case-by-case basis and disposed accordingly.

If any distance between steam pipes and electrical conduits or trays is found to be unacceptable, modifications will be made to correct any problems.

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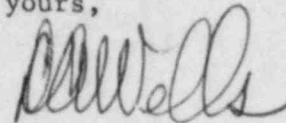
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Another report on this item, either interim or final, will be sent when further information is available. If you have questions concerning this matter, please contact Mr. G.M. Trahey, Assistant Director - Project Quality Assurance.

Very truly yours,



DAW/EHN/cp

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

Mr. Paul Byron, Senior Resident Inspector
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6450 North Dixie Highway
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