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Donald A. Wells
Manager-Quality Assurance
(313) 237-9657
2000 Second Avenue
Detroit, Michigan 48226
(313) 237-8000

May 6, 1983
EF2-63503

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

Subject: Report of Potential 10CFR50.55(e) Item on Residual Heat Removal
(RHR) Heat Exchanger Flow Deficiency (#93)

Dear Mr. Keppler:

On April 6, 1983, Detroit Edison's Mr. D. Ferencz, Acting Supervisor -
Construction Quality Assurance, telephoned Mr. H.M. Wescott of NRC Region
III to report on a potential problem with RHR heat exchanger flow defi-
ciencies at the Fermi 2 site.

An error in calculation may have been made by General Electric resulting
in a flow deficiency. The design flow should be ten thousand (10,000) GPM,
but was actually calculated to be seven thousand seven hundred (7,700) GPM.

General Electric has performed an evaluation of the flow deficiency of the
North and South heat exchangers. General Electric recalculated the flow,
and concluded that to achieve the required design flow of ten thousand
(10,000) GPM, the lower baffle plates of the heat exchangers required
modification and rework.

Under the direction of General Electric, Wismer and Becker performed a mock
up of the modification and rework of the baffle plates to assure that the
work could be safely performed without damage to the heat exchangers.
General Electric was satisfied with the work performed during the mock up,
and the contractor proceeded with the modification and rework.

The contractor has completed the modification work on the baffle plates,
and is re-installing piping for the system. Evaluation of the design flow
will be conducted after testing of these systems is completed.

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/WEM/pn

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

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