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September 14, 1984
EF2-69707

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

Dear Mr. Keppler:

Reference: Fermi 2
NRC Docket No. 50-341

Subject: Interim Report of Potential 10CFR50.55(e) Item 137
"Cracks in Tack Welds in Powell Valves"

On August 16, 1984, Detroit Edison's Mr. L. P. Bregni telephoned Mr. J. McCormick-Barger of the NRC Region III to report that cracks had been detected in tack welds on two valves manufactured by the Wm. Powell Company. This deficiency is potentially reportable under 10CFR50.55(e) and is being tracked as Item 137.

Description of Deficiency

A visual examination of motor operated valves V8-2159 and V8-2160 revealed cracks on tack welds holding keys in the bushing keyways. One key is in the yoke to shaft bushing keyway and the other is the key in the shaft bushing to shaft keyway. These deficiencies were documented on Nonconformance Report (NCR) 84-1282. The longitudinal cracks extend completely across the tack weld; therefore the tack weld was still sufficient to hold the key in the keyway.

Motor operated valves V8-2159 and V8-2160 are "Y" pattern globe valves each equipped with a Limitorque motor operator, and are located in the residual heat removal system. There are a total of six "Y" pattern globe valves with this configuration installed at Fermi 2.

Analysis of Safety Implications

Complete failure of the tack welds resulting in an unobstructed path for the key to slide out of the keyway could result in the valve being inoperable.

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Mr. James G. Keppler
September 14, 1984
EF2-69707
Page 2

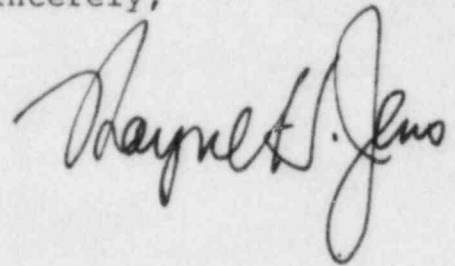
Corrective Action

The following actions are being taken to correct the deficiency and prevent recurrence:

- o All six similar globe valves manufactured by the Wm. Powell Company will be inspected to assure tack weld integrity.
- o Repairs or modifications as required will be made to secure the keys within the keyways. The Wm. Powell Company was consulted and a disposition is being prepared.

Another report of this item, either interim or final, will be sent when further information is available. 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