

Wayne H. Jens
Vice President
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DMB

**Detroit
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December 12, 1984
EF2-70224

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, W. H. Jens to J. G. Keppler,
October 15, 1984, EF2-70031

Subject: Final Evaluation of 10CFR50.55(e) Item 139
"Deficient Shop Weld in a Flued Head Structure"

This is Detroit Edison's final report of 10CFR50.55(e) Item 139, "Deficient Shop Weld in a Flued Head Structure." Detroit Edison has completed its investigation of this item and has concluded it is not reportable under the requirements of 10CFR50.55(e).

As reported in reference 2, a shop weld was inadvertently tested during ultrasonic testing of field welds on the flued head structures in the steam tunnel. This test indicated that the weld was unacceptable although the weld had been tested and accepted by the manufacturer, Schreiber Steel, prior to delivery to Fermi 2. This deficiency was documented in a Deviation Disposition Request DDR (W)12290. The weld was repaired and retested successfully. The DDR used to document this deficiency did not address whether other welds from this manufacturer should be evaluated for similar deficiencies.

Flued head structures are steel frames composed of built up box members and were designed and fabricated to American Institute for Steel Construction (AISC) requirements. Welding was performed in accordance with American Welding Society (AWS) D1.1 code. However, nondestructive examination was specified by Detroit Edison to the more stringent requirements of ASME Section III Article NB-5000.

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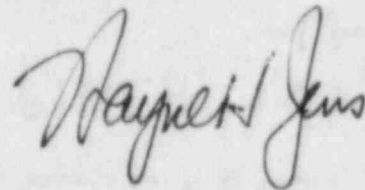
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This section of the ASME code applies to pressure vessels and piping, not structural frames such as the flued head structure where AWS D1.1 is more applicable. Therefore, the applicable design documents are being revised to specify that the structure meet the more applicable AWS D1.1 requirements.

A review of the stress calculations for the as-built configurations of the flued head structures revealed that the maximum stress on any of the welds does not exceed 33% of the allowable. Based on reinspections and the low loads on the welds, the flued head structures did not require modification or repair to meet their intended safety function. Therefore, this deficiency would not have affected the safety of the plant.

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

Sincerely,

A handwritten signature in dark ink, appearing to read "Wayne H. Jones". The signature is fluid and cursive, with the first name "Wayne" being more prominent.

cc: P. M. Byron
R. C. DeYoung
R. C. Knop
USNRC Document Control Desk
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