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Wayne H. Jens  
Vice President  
Nuclear Operations

Detroit  
Edison

2000 Second Avenue  
Detroit, Michigan 48226  
(313) 586-4150

May 17, 1984  
EF2-68,544

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: Initial Report of 10CFR50.55(e) Item 122  
"Linear Indications on 5/8" Seamless Tubing"

On April 17, 1984, Detroit Edison's Mr. L. P. Bregni, Engineer-Licensing, telephoned Mr. J. W. McCormick-Barger of the NRC Region III, to report a potential deficiency concerning linear indications in 5/8" seamless tubing.

Description of Deficiency

After Wismer and Becker completed the repair of damaged (slightly bent) 5/8 inch tubing, liquid penetrant tests were performed which revealed linear indications running the full length of the tubes. Attempts to remove the indications by blending were unsuccessful and a DDR was written to document the deficiency.

The subject tubing is identified as 5/8 inch outside diameter x 0.090 inch nominal wall, type 304 stainless steel. The tubing was purchased from Guyon Alloys Inc. Houston, Texas, and identified as heat number 464547. This tubing has been used in safety-related applications.

A length of the tubing was forwarded to the Detroit Edison Engineering Research Department for analysis. Engineering Research reported the defect as a linear indication on the outside diameter of the tube at a 45° angle to the surface. The depth of the indication varies from approximately 0.014 to 0.016 inch when measured perpendicular to the surface, or 17% of the wall thickness.

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Approximately 795 pieces of this heat, in 20 foot random lengths, were supplied to Fermi 2, and all have been issued for construction. To date, linear indications have been verified in only the original pieces discussed above. In addition, portions of tubing totaling approximately 45 feet that are shown on 3 isometric drawings were penetrant tested and were found acceptable.

#### Analysis of the Safety Inspections

Tubing of this type is used in safety-related instrument sensing lines. Failure of the tubing could cause the loss of pressure boundary and/or malfunction of the applicable instrument or device.

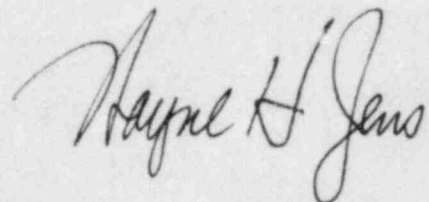
#### Corrective Action

The following action has been taken or is underway:

1. A two foot length of the tube was shipped to the vendor for their analysis and recommendation. Their response is expected by the end of May.
2. A document review is being performed to locate the balance of the tubing with heat number 464547. Any tubing located with this heat number will be penetrant tested and evaluated for further action.

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. Lewis P. Bregni, (313) 586-5083.

Sincerely,



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