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50-237

BBS Ltr. 5558-74

Dresden Nuclear Power Station  
R. R. #1  
Morris, Illinois 60450  
August 6, 1974

Mr. James G. Keppler, Regional Director  
Directorate of Regulatory Operations-Region III  
U. S. Atomic Energy Commission  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137



SUBJECT: REPORT OF ABNORMAL OCCURRENCE PER SECTION 6.6.B OF THE TECHNICAL SPECIFICATIONS.  
CRACK IN FEEDWATER HEATER DRAIN LINE.

References: 1) Regulatory Guide 1.16 Rev.1 Appendix A

2) Notification of Region III of AEC Regulatory Operations  
Telephone: Mr. F. Maura, 1600 hours on 7/30/74.  
Telegram: Mr. J. Keppier, 0820 hours on 7/31/74.

3) Drawing Number P&ID H-16

Report Number: 50-237/1974-35

Report Date: August 6, 1974

Occurrence Date: July 30, 1974

Facility: Dresden Nuclear Power Station, Morris, Illinois

IDENTIFICATION OF OCCURRENCE

At 0100 hours on July 30, 1974 a 4" crack was discovered in line 2-3508 A-10"-L. This is the drain from 2D1 feedwater heater to 2C1 feedwater heater.

CONDITIONS PRIOR TO OCCURRENCE

At 0100 hours on July 30, 1974 Unit 2 was in cold shutdown.

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DESCRIPTION OF OCCURRENCE

At 0100 hours on July 30, 1974 condenser flow was being reversed. Water was noted coming from this line and upon checking it was found that there was a 4" crack in this pipe. The crack was located where a pipe support is welded to the bottom of the line.

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE

The apparent cause of the occurrence appears to be vibration. With the pipe support mounted on the floor, line vibration could cause stress in this area.

ANALYSIS OF OCCURRENCE

There was no safety hazard to the public or plant personnel due to this occurrence. This line is no part of a safety system and would not impair the safe shutdown of the reactor. This line is in an area that would not be occupied during operation when the line contained hot water. Contaminated water would leak to the floor drain system for processing in the radioactive waste disposal system.

CORRECTIVE ACTION

The immediate corrective action was to grind out and reweld the crack. In addition, plans are being made to have Operational Analysis Department (OAD) inspect similar configured pipes in this area at the first available opportunity.

To prevent a similar type failure in the future, this piping is included in a vibration study now being conducted on Unit 3. Any modification to similar piping on Unit 3 that results from this study will also be made on Unit 2.

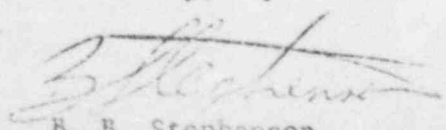
Any additional leaks like this one can be detected by both feedwater heater malfunctions and high input to the radioactive waste disposal system via the floor drain system. In light of this and the low threat this type of failure presents to the reactor or unit operability, the corrective action seems both sufficient and correct.

FAILURE DATA

Line 2-3508A-10"-L

There is no other failure data for this type of failure on this system.

Sincerely,

  
B. B. Stephenson  
Superintendent