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BBS Ltr. #156-75

Dresden Nuclear Power Station
R. R. #1
Morris, Illinois 60450
March 12, 1975

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

SUBJECT: REPORT OF ABNORMAL OCCURRENCE PER SECTION 6.6.A OF THE TECHNICAL SPECIFICATIONS
CRACK IN WELD BETWEEN 8503-8" AND 1604-18"

- References:
- 1) Regulatory Guide 1.16 Rev 1 Appendix A
 - 2) Notification of Region III of U. S. Nuclear Regulatory Commission
Telephone: P. Johnson, 1630 hours on March 3, 1975
Telegram: J. Keppler, 1055 hours on March 4, 1975
 - 3) Drawing Number: P & ID M-25

Report Number: 50-237/75-14

Report Date: March 12, 1975

Occurrence Date: March 3, 1975

Facility: Dresden Nuclear Power Station, Morris, Illinois

IDENTIFICATION OF OCCURRENCE

Crack in weld between lines 8503-8" and 1604-18".

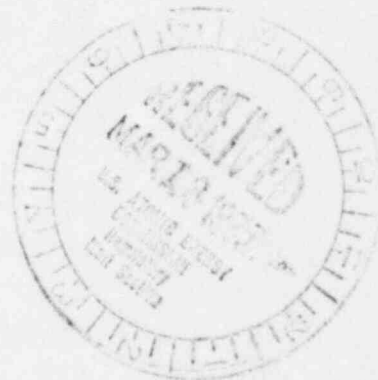
CONDITIONS PRIOR TO OCCURRENCE

Unit 2 was locked in shutdown and the drywell was open for the refueling outage.

DESCRIPTION OF OCCURRENCE

On March 3, 1975 maintenance was preparing the weld between lines 8503-8" and 1604-18" for radiography. The radiograph results indicated that the weld was cracked part way through.

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DESIGNATION OF APPARENT CAUSE OF OCCURRENCE

The apparent cause of the crack appears to be poor welding technique. When the weld was originally made, a hole was cut into the 18" header with a torch, the 8" pipe set into it and welded in. The resultant weld was of poor quality and resulted in the crack. Review of the radiograph taken of the original weld showed the weld to be of poor quality.

ANALYSIS OF OCCURRENCE

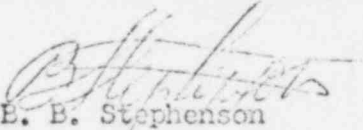
No danger to plant personnel or to the public existed with the reactor shutdown and the drywell open. The piping in which the crack was found is part of the nitrogen purge system for the primary containment. It is isolated from the drywell by the 1601-21 valve, from the torus by the 1601-56 valve, and from the reactor building atmosphere by the 1601-22 valve. All of these valves are normally closed during operation.

CORRECTIVE ACTION

Since the unit was shutdown, no immediate corrective action was required. The existing weld will be ground out and the pipe will be reinstalled with a 100% fillet weld.

FAILURE DATA

The 2-8505-8" and 2-1604-18" torus/drywell purge piping is of seamless A106 Grade B steel of 3/8 inch wall thickness. The crack is in the weld between these two pipes.


E. B. Stephenson
Superintendent

BBS:smp

File/AEC