

1. Abnormal Occurrence Report No. 50-313/75-2
2. Report Date: 1/30/75 3. Occurrence Date: 1/23/75
4. Facility: Arkansas Nuclear One-Unit 1
Russellville, Arkansas
5. Identification of Occurrence: Primary Makeup Pump P36C drain line leak near the casing discharge nozzle.

6. Conditions Prior to Occurrence:

Steady-State Power	<u> X </u>	Reactor Power	<u> 530 </u> Mwth
Hot Standby	<u> </u>	Net Output	<u> 835 </u> MWe
Cold Shutdown	<u> </u>	Percent of Full Power	<u> 98.5% </u>
Refueling Shutdown	<u> </u>		
Routine Startup Operation	<u> </u>		
Routine Shutdown Operation	<u> </u>		

Load Changes During Routine Power Operation

Other (Specify)

7. Description of Occurrence:

At approximately 15:30 hours, a leak was discovered on the Primary Makeup Pump P36C 1/2 inch casing drain line where the drain line is threaded into the casing discharge nozzle. The crack extended around approximately 3/4 of the pipe circumference. The drain line was removed and a threaded plug was temporarily installed until a new line could be fabricated and installed.

P36A and B were inspected and no abnormalities were found.

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8. Designation of Apparent Cause of Occurrence:

Design	_____	Procedure	_____
Manufacture	_____	Unusual Service	_____
Installation/ Construction	<u> X </u>	Condition Including Environmental	_____
Operator	_____	Component Failure	_____
Other (Specify)	<u> X </u>		

It is believed that this failure is due to improper fitup of the threaded section of the casing drain line. An investigation is in progress to determine if there are any other contributing causes.

9. Analysis of Occurrence:

The P36C outage was of a much shorter duration than that allowable as defined in Technical Specification 3.3.5. There were no safety implications or hazards to the public safety involved.

10. Corrective Action:

A new casing drain line pipe section was fabricated and installed. The proper fitup of the threaded portion was verified. A vibration analysis of the pipe section in question is being initiated to determine if there are any abnormal vibrations in the vicinity of the crack.

11. Failure Data:

There have been no previous failures of this type. The Makeup Pump nameplate data is as follows:

Byron-Jackson, Horizontal Double Bearing Pump Type DVMX, Serial Number 691-N-0063.

12. Reviews and Approvals:

Reviewed and Approved by: Plant Safety Committee Yes (X) No ()

Plant Superintendent Yes (X) No ()

Reference: JWA-821 Date: 1/28/75

Reviewed by: Donald A. Raeter Date: 1/30/75
Licensing Supervisor

Approved by: [Signature] Date: 1-30-75
Safety Review Committee

Approved by: Joe Marlin Date: 1-30-75
for Manager of Nuclear Services

Approved by: [Signature] Date: 1-30-75
Director of Power Production

Approved by: [Signature] Date: 1-30-75
Senior Vice President