1.	Abnormal Occurrence Report No.	50-3	13/74-11				
2.	Report Date: 11/15/74	3.	Occurrence Dat	e: 11/7	11/7/74		
4.	Facility: Arkansas Nuclear Russellville, Ark	One-Un kansas	it l				
5.	Identification of Occurrence:				*		
	Reactor Building Spray Pump P3	5B Suct	ion Line Leak				
6.	Conditions Prior to Occurrence						
	Steady-State Power		Reactor Power	0	MWth		
	Hot Standby		Net Output	0	MWe		
	Cold Shutdown X		Percent of Full	Power _) %		
	Refueling Shutdown						
	Routine Startup Operation						
	Routine Shutdown Operation						
	Load Changes During Routine Pow	ver Ope:	ration				
	Other (Specify)	*					

7. Description of Occurrence:

At 1450 hours on 11/7/74, during a routine operator inspection, a leak was discovered in Reactor Building Spray Pump P35B suction line between valves BW5B and BW6B. Following repair and completion of a satisfactory hydrostatic test on 11/12/74, an additional leak was discovered at 0630 hours on 11/13/74, near a new weld that was made during the repair of the leak discovered on 11/7/74. An additional inspection was made of the spray line and a small leak was found in the spray pumps suction crossover line between valves BW7A and BW7B. A crack was found in the parent metal near a field weld in each case.

8004170533

NSP-10, Rev. 0

Abnormal Occurrence Report No. 50-313/74-11

8. Designation of Apparent Cause of Occurrence:

Design	Procedure	
Manufacture	Unusual Service	
Installation/ Construction	Environmental	
Operator	Component Failure	
Other (Specify) X	Not yet determined.	

Note: It is our position that the crossover line leak is not an abnormal occurrence since that section of pipe is isolated under normal modes required for spray system operation.

9. Analysis of Occurrence:

At the time of the occurrence, the reactor was in cold shutdown conditions on 11/7/74. On 11/13/74, the reactor was in hot shutdown conditions. There was no hazard to the health and safety of the public or plant personnel due to the prompt identification and the fact that only one spray pump was required to be operable prior to criticality, per Technical Specifications 3.3.

10. Corrective Action:

A spool piece will be removed from each section of pipe where the leak occurred with the area of failure undisturbed for metallurgical examination. A new spool piece will be installed, using qualified welders and procedures. The results of the metallurgical examination will be used to determine if additional corrective measures are necessary.

Sheet 2

Abnormal Occurrence Report No. 50-313/74-11

11. Failure Data:

These are the second and third leaks in the vicinity of a weld in this type of pipe (Schedule 10), but it is not known at this time if any of the three are caused by the same mode of failure. The first leak was reported in Abnormal Occurrence Report No. 50-313/74-2.

The results of the metallurgical examination will be forwarded upon availability.

12. Reviews and Approvals:

Reviewed and Approved by:	Plant Safety Committ	ee	Yes	(X)	No	()
	Plant Superintendent		Yes	(X)	No	()
	Reference:JWA-662		Dat	te:	1/14/	74	
Reviewed by: Donald	1. Rueter	Date:	11	112	34		
Approved by: Approved by:	lang Supervisor	Date:	11-	15-	.74	,	
Safety Ren	view Committee				1.	_	
Approved by: <u>Manager of M</u>	Nuclear Services	Date:		11	179	_	
Approved by:	church (Date:	11-	.15-	7 9	~	
Approved by: 9 D. Pril	Power Production	Date:	11-	- 15	. 71	1	
Senior Vi	ce President						

3