LICENSEE EVENT REPORT

CONTROL BLOCK: [ ] (1–6) (PLEASE PRINT ALL REQUIRED INFORMATION)

	LICENSEE NAME	LICENSE NUMBER	LICENSE TYPE	EVENT TYPE
01	ARAK I	00-000000-00	4 1 1 1 1	0 3
	(7–9 / 9–14)	(15–25)	(26–30)	(31–32)

	CATEGORY	REPORT TYPE	REPORT SOURCE	DOCKET NUMBER	EVENT DATE	REPORT DATE
01 CON'T		L	L	050-0313	120176	123076
	(57–58)	(59)	(60)	(61–68)	(69–74)	(75–80)

EVENT DESCRIPTION

02 During steady-state power (99% FP), leakage was discovered on a weld downstream
03 of valve SF-10. A dye-penetrant test revealed no penetrating cracks. A dye-
04 penetrant test of the valve above SF-10, valve SF-11, revealed a crack in the heat
05 affected zone. No redundant systems are available. Valve SF-11 will be
06 replaced. (50-313/76-34)

	SYSTEM CODE	CAUSE CODE	COMPONENT CODE	PRIME COMPONENT SUPPLIER	COMPONENT MANUFACTURER	VIOLATION
07	FC	B	VALYEX	A	A395	N
	(9–10)	(11)	(12–17)	(43)	(44–47)	(48)

CAUSE DESCRIPTION

08 NA
09 Valve SF-11 will be replaced.

	FACILITY STATUS	% POWER	OTHER STATUS	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION
11	E	09[illegible]	NA	b	NA
	(9)	(10–12)	(13–44)	(45)	(46–80)

	FORM OF ACTIVITY RELEASED	CONTENT OF RELEASE	AMOUNT OF ACTIVITY	LOCATION OF RELEASE
12	Z	Z	NA	NA
	(9)	(10)	(11–44)	(45–80)

PERSONNEL EXPOSURES

	NUMBER	TYPE	DESCRIPTION
13	000	Z	NA
	(7–9 / 11)	(12)	(13–80)

PERSONNEL INJURIES

	NUMBER	DESCRIPTION
14	000	NA
	(7–9 / 11)	(12–80)

OFFSITE CONSEQUENCES

15 NA

LOSS OR DAMAGE TO FACILITY

	TYPE	DESCRIPTION
16	Z	NA
	(9)	(10–80)

PUBLICITY

17 NA

8004110 F04

ADDITIONAL FACTORS

18 NA
19

NAME: David G. Hardis PHONE: (501) 371-4496

1. Reportable Occurrence Report No. 50-313/76-34 | 4

2. Report Date: 12/30/76 3. Occurrence Date: 12/1/76

4. Facility: Arkansas Nuclear One-Unit 1
Russellville, Arkansas

5. Identification of Occurrence:
Water leakage from valve in spent fuel cooling system.

6. Conditions Prior to Occurrence:

Steady-State Power	X	Reactor Power	2542 MWth
Hot Standby		Net Output	829 MWe
Cold Shutdown		Percent of Full Power	99 %
Refueling Shutdown		Load Changes During Routine Power Operation	
Routine Startup Operation			
Routine Shutdown Operation			
Other (specify)			

7. Description of Occurrence:

At 1715 hours on December 1, 1976, leakage was discovered on a weld downstream of Valve SF-10 between the valve and a T-section. Cause of the leakage appeared to be a small crack in the weld. A dye-penetrant test of the T-section area revealed no penetrating cracks. It was then thought that the leakage may have come from above on Valve SF-11. A dye-penetrant test revealed a crack in the heat affected zone of Valve SF-11.

8. Designation of Apparent Cause of Occurrence:

Design		Procedure	
Manufacture		Unusual Service Condition Including Environmental	
Installation/ Construction		Component Failure (See Failure Data)	
Operator			
Other (specify)	X		
Unknown			

| 5

9. Analysis of Occurrence:

Since the leakage was only a minute amount and was contained in a controlled area, there was no hazard to the health and safety of the public.

10. Corrective Action:

After a dye-penetrant test was performed on the T-section area of Valve SF-10 and no penetrating cracks were found, a dye-penetrant test revealed a crack in the body of Valve SF-11. Valve SF-11 will be replaced.

11. Failure Data:

NONE