LICENSEE EVENT REPORT

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

LICENSEE NAME	LICENSE NUMBER	LICENSE TYPE	EVENT TYPE
ARARK1	00-00000-00	4 1 1 1 1	0 1
(7–8 / 9–14)	(15–25)	(26–30)	(31–32)

CON'T	CATEGORY	REPORT TYPE	REPORT SOURCE	DOCKET NUMBER	EVENT DATE	REPORT DATE
0 1		T	L	0 5 0 - 0 3 1 3	0 2 2 4 7 7	0 3 1 0 7 7
(7–8)	(57–58)	(59)	(60)	(61–68)	(69–74)	(75–80)

EVENT DESCRIPTION

02 AT REFUELING SHUTDOWN, WHILE LOADING NEW FUEL ASSEMBLY INTO CORE POSITION
03 L-2, TWO FUEL PINS WERE DAMAGED. A NEW FUEL ASSEMBLY IS BEING READIED
04 FOR SHIPMENT TO THE SITE IF THE DAMAGED FUEL ASSEMBLY CANNOT BE REPAIRED
05 BEFORE THE NEW FUEL ASSEMBLY CAN BE SHIPPED. (50-313/77-7)
06

	SYSTEM CODE	CAUSE CODE	COMPONENT CODE	PRIME COMPONENT SUPPLIER	COMPONENT MANUFACTURER	VIOLATION
07	R C	D	F U E L X X	N	B 0 1 5	N
(7–8)	(9–10)	(11)	(12–17)	(43)	(44–47)	(48)

CAUSE DESCRIPTION

06 THE FUEL ASSEMBLY (SER. NO. NJ600J2) WAS BEING MOVED INTO POSITION BETWEEN
09 TWO ASSEMBLIES WITH A NEW ASSEMBLY APPROXIMATELY 2 FEET ABOVE THE GRID. THE
NEW ASSEMBLY WAS BEING MOVED IN THIS MANNER DUE TO THE DIFFICULTY IN PLACING
THE NEW ASSEMBLY INTO POSITION. THE DAMAGED ASSEMBLY WAS REMOVED AND RETURNED TO THE

	FACILITY STATUS	% POWER	OTHER STATUS	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION
11	H	0 0 0	NA	Q	NA (OVER)
(7–8)	(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
(7–8)	(9)	(10)	(11–44)	(45–80)

PERSONNEL EXPOSURES

	NUMBER	TYPE	DESCRIPTION
13	0 0 0	Z	NA
(7–8)	(9–11)	(12)	(13–80)

PERSONNEL INJURIES

	NUMBER	DESCRIPTION
14	0 0 0	NA
(7–8)	(9–11)	(12–80)

OFFSITE CONSEQUENCES

15 NA

LOSS OR DAMAGE TO FACILITY

	TYPE	DESCRIPTION
16	Z	NA
(7–8)	(9)	(10–80)

PUBLICITY

17 NA

8004110 829

ADDITIONAL FACTORS

18 NA

19

NAME: DAVID G. MARDIS PHONE: 501/371-4496

GPO 881-667

1. Reportable Occurrence Report No. 50-313/77-7

2. Report Date: 3/10/77 3. Occurrence Date: 2/24/77

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

5. Identification of Occurrence: Damage to fuel pins in new fuel assembly.

6. Conditions Prior to Occurrence:

Steady-State Power		Reactor Power	0 MWth
Hot Standby		Net Output	0 MWe
Cold Shutdown		Percent of Full Power	0 %
Refueling Shutdown	X	Load Changes During Routine Power Operation	
Routine Startup Operation			
Routine Shutdown Operation			
Other (specify)			

7. Description of Occurrence:

At approximately 2325 hours on February 24, 1975, while loading a new fuel assembly into Core Position L-2, two fuel pins were damaged. The fuel assembly was being moved into position between two other assemblies with the bottom of the new assembly approximately 2 feet above the grid. The assembly was being moved in this manner due to the difficulty of placing the new assembly into position.

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		

Slight warping of fuel assemblies.

9. Analysis of Occurrence:

The adjacent assemblies showed no evidence of damage. Since the damaged assembly was an unirradiated assembly and experienced no fuel cladding failure, there was no release of fuel or fission products. Therefore, there was no hazard to the health and safety of the public.

10. Corrective Action:

The fuel assemblies involved were inspected with video equipment to determine their damage. There was no damage except to the one assembly. This assembly had one fuel pin out of the upper end fitting and one other pin was bent. A decision was made to remove this assembly from the Reactor with the new fuel handling tool and the Reactor Building Crane. This assembly was placed in the transfer carriage for transfer to the spent fuel pool, removed for decontamination, and shipped to the fuel vendor for inspection and repair. A new fuel assembly is being readied for shipment to the site in the event the damaged fuel assembly can not be repaired before the new fuel assembly can be shipped.

The fuel loading was continued after this assembly was removed for decontamination with its core position left empty until it or a replacement is returned from the vendor. The refueling operators were instructed not to try to place an assembly from the side without prior approval of the supervisor of operations and then only if the assembly is less than 3 inches off the lower grid.

11. Failure Data:

There has been no other failure of this type. Fuel assembly serial number NJ00J2.