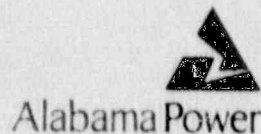


Alabama Power Company
40 Inverness Center Parkway
Post Office Box 1295
Birmingham, Alabama 35201
Telephone 205 868-5581

W. G. Hairston, III
Senior Vice President
Nuclear Operations

November 21, 1990



Alabama Power

the southern electric system

10CFR50.73

Docket No. 50-348

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

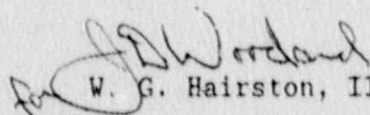
Gentlemen:

Joseph M. Farley Nuclear Plant - Unit 1
Licensee Event Report No. LER 90-007-00

Joseph M. Farley Nuclear Plant, Unit 1, Licensee Event Report No. LER 90-007-00
is being submitted in accordance with 10CFR50.73.

If you have any questions, please advise.

Respectfully submitted,


W. G. Hairston, III

WGH,III/DEMc:mgd 24.13

Enclosure

cc: Mr. S. D. Ebnetter
Mr. G. F. Maxwell

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PDR ADOCK 05000348
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LICENSEE EVENT REPORT (LER)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (F-630), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1) Joseph M. Farley - Unit 1		DOCKET NUMBER (2) 0 5 0 0 0 3 4 8	PAGE (3) 1 OF 0 3
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TITLE (4)
Failure Of Preaction Fire Protection System Clapper Valves To Trip

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)		
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER(S)
1	0	13	9	0	0	1	1	2	J. M. Farley - Unit 2		0 5 0 0 0 3 6 4
1	0	13	9	0	0	1	1	2			0 5 0 0 0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)

OPERATING MODE (9) 1	<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.406(c)	<input type="checkbox"/> 50.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)
POWER LEVEL (10) 1 1 0 1 0	<input type="checkbox"/> 20.406(a)(1)(i)	<input type="checkbox"/> 50.38(c)(1)	<input type="checkbox"/> 50.73(a)(2)(v)	<input type="checkbox"/> 73.71(e)
	<input type="checkbox"/> 20.406(a)(1)(ii)	<input type="checkbox"/> 50.38(c)(2)	<input type="checkbox"/> 50.73(a)(2)(vii)	<input checked="" type="checkbox"/> OTHER (Specify in Abstract below and in Text, NRC Form 366A)
	<input type="checkbox"/> 20.406(a)(1)(iii)	<input type="checkbox"/> 50.73(a)(2)(i)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)	Voluntary
	<input type="checkbox"/> 20.406(a)(1)(iv)	<input type="checkbox"/> 50.73(a)(2)(ii)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)	
	<input type="checkbox"/> 20.406(a)(1)(v)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME D. N. Morey, General Manager-Nuclear Plant	TELEPHONE NUMBER AREA CODE 2 0 5 8 9 9 - 5 1 5 6
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS
B	K	P	V	9 9 3	N				

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On 10-13-90, during an investigation to determine why fire protection system clapper valves failed to trip, it was determined that the diaphragms in some of these valves at FNP have deteriorated and/or deformed over time, which caused them to function improperly.

The current preventive maintenance program will be changed to include periodic replacement of the diaphragms on preaction fire protection systems.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50V. MAIL FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1) Farley Nuclear Plant - Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 4 B	LER NUMBER (8)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		9 0	- 0 0 7	- 0 0	0 1 2	OF 0 3	

TEXT: If more space is required, use additional NRC Form 366A's (17)

Plant and System Identification

Westinghouse - Pressurized Water Reactor
Energy Industry Identification System codes are identified in the text as [XX].

Summary of Event

On 10-13-90, during an investigation to determine why fire protection system clapper valves failed to trip, it was determined that the diaphragms in some of these valves at FNP have deteriorated and/or deformed over time, which caused them to function improperly.

Description of Event

In attempting to reset several clapper valves, the workers found that the clapper valves were not in the tripped condition. The clappers were then tripped manually. An investigation was initiated in coordination with the vendor of the clapper valves. On 10-13-90, it was determined that the problem occurred because the diaphragms, over a period of time, can weaken, deteriorate, and/or deform. This can prevent the clapper from tripping and it can give a local indication that the clapper is tripped when it actually is not tripped.

Cause of Event

Some of the clapper valves were found to have age-weakened, deteriorated, and/or deformed diaphragms which prevented the clappers from tripping. Leaking diaphragms can also give a local indication that the clapper is tripped when actually it is not tripped.

**LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION**

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555 AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1) Farley Nuclear Plant - Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 4 8	LER NUMBER (6)			PAGE (7)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		9 0	0 0 7	0 0	0 3	OF 0 3

TEXT (If more space is required, use additional NRC Form 386A's) (17)

Corrective Action

All of the Technical Specification clapper valves on both units had already been placed in the tripped condition on 10-09-90 and 10-10-90 with the exception of the clappers for systems 1A-135 (Unit 1) and 2A-56 (Unit 2). These two systems have open sprinkler heads and tripping their clappers would have resulted in the discharge of water. An hourly fire watch has been posted in the areas protected by systems 1A-135 and 2A-56.

The current preventive maintenance program will be changed to include periodic replacement of the diaphragms on preaction fire protection systems. The clappers will remain tripped until replacement of the diaphragms, which is expected to be completed by the end of December, 1990.

Reportability Analysis and Safety Assessment

The event is being reported voluntarily.

Fire watches required by Technical Specifications have been established as required. The failure of these clapper valves had no effect on plant operation. The health and safety of the public were not affected by this event.

Additional Information

Unit 1 was operating at approximately 100 percent power on 10-13-90.

This event would not have been more severe if it had occurred under different operating conditions.

No similar LERs have been submitted by FNP.

The clapper valves are Model A4 Multimatic Valves made by Grinnell Fire Protection Systems Company, Inc., 10 Dorrance Street, Providence, Rhode Island, 02903.