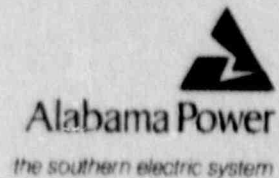


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W. G. Hairston, III
Senior Vice President
Nuclear Operations

March 20, 1990



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 90-002-00

Joseph M. Farley Nuclear Plant Unit 1 Licensee Event Report No. LER 90-002-00 is being submitted in accordance with 10CFR50.73.

If you have any questions, please advise.

Respectfully submitted,


W. G. Hairston, III

WGH,III/JAR:md 16.03

Enclosure

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

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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 (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)

Joseph M. Farley - Unit 1

DOCKET NUMBER (2)

0 5 0 0 0 3 4 8 1 OF 0 4

PAGE (3)

TITLE (4)

Surveillance Not Performed Due To Inadequate Procedural Guidance

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)	
0	2	2	9	0	0	2	0	9	J. M. Farley-Unit 2		0 5 0 0 0 3 6 4	
THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)												
OPERATING MODE (9)			20.402(b)			20.405(c)			50.73(a)(2)(iv)			73.71(b)
POWER LEVEL (10)			20.406(a)(1)(i)			50.36(c)(1)			50.73(a)(2)(v)			73.71(c)
1 0 0			20.406(a)(1)(ii)			50.36(c)(2)			50.73(a)(2)(vi)			OTHER (Specify in Abstract below and in Text, NRC Form 366A)
			20.406(a)(1)(iii)			50.73(a)(2)(i)			50.73(a)(2)(viii)(A)			
			20.406(a)(1)(iv)			50.73(a)(2)(ii)			50.73(a)(2)(viii)(B)			
			20.406(a)(1)(v)			50.73(a)(2)(iii)			50.73(a)(2)(ix)			

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
AREA CODE	
D. N. Morey, General Manager-Nuclear Plant	2 0 5 8 9 9 - 5 1 5 6

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE)	NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
<input checked="" type="checkbox"/>	<input type="checkbox"/>				

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

During a review of the surveillance testing requirements of the main feedwater regulating valve (MFRV) bypass valves, two cases were found where surveillance testing procedures did not perform all the tests required by Technical Specifications. In the first case, an auxiliary relay was not included in the surveillance procedure and had not been tested. In the second case, the procedure did not ensure that either train of the reactor trip signal would close the MFRV bypass valves. In both cases, the operability of the MFRV bypass valves was evaluated. It was determined that the intent of the Technical Specification requirement was being satisfied since the MFRV bypass valves were closed.

This event was caused by inadequate procedural guidance. Existing procedures did not test all the feedwater isolation logic functions for the MFRV bypass valves. Both FNP units were affected.

The MFRV bypass valves were verified closed. Isolation valves for the MFRV bypass valves were closed. Testing was conducted to verify that the MFRV bypass valves were operable. Procedures have been revised to include the proper testing requirements.

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 (F-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20545, 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 9 0 - 0 0 2 - 0 0	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
					0 2	OF	0 4

TEXT (If more space is required, use additional NRC Form 388A'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

During a review of the surveillance testing requirements of the main feedwater regulating valve (MFRV) bypass valves [JB], it was determined that surveillance testing procedures did not perform all the tests required by Technical Specifications. In the first case, an auxiliary relay was not included in the surveillance procedure and had not been tested. In the second case, the procedure did not ensure that either train of the reactor trip signal would close the MFRV bypass valves. In both cases, the operability of the MFRV bypass valves was evaluated. It was determined that the intent of the Technical Specification requirement was being satisfied since the MFRV bypass valves were closed.

Description of Event

On 02-22-90, with both units operating at 100 percent power, the proposed response to Generic Letter 89-19 was being reviewed. As a part of this, the surveillance testing of the feedwater isolation logic was reviewed. At 1445 on 02-22-90, it was determined that an auxiliary relay which closes the MFRV bypass valves on a steam generator level of 75 percent (relay K649) was not included in the surveillance procedure and had not been tested as required by Technical Specification 3.3.2.

The operability of the MFRV bypass valves was evaluated. It was determined that the intent of the Technical Specification requirement was being satisfied since the MFRV bypass valves were closed. As an added assurance, a manual isolation valve in each of the MFRV bypass lines was closed.

Testing was performed to verify that the MFRV bypass valves would automatically close in response to a signal from the K649 relay. This testing was completed satisfactorily on 02-23-90.

Further review of the surveillance testing conducted on MFRV bypass valves found the surveillance test procedure inadequate in testing of the auxiliary relay (relay K637) which closes the MFRV bypass valves on low reactor coolant system average temperature coincident with a reactor trip signal (P4). This procedure did not provide for independent train testing. The test, as written, verified that the valves closed when both A train and B train reactor trip signals were present. This test would not have identified a failure of one train of P4 to close the MFRV bypass valves.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 500 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-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) Farley Nuclear Plant - Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 4 8	LER NUMBER (6)			PAGE (3)	
		YEAR 9 0	SEQUENTIAL NUMBER 0 0 2	REVISION NUMBER 0 0 0	3 OF 0 4	

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

Testing was completed on 03-09-90 which verified that both trains of the P4 signal functioned to close the MFRV bypass valves. This testing satisfied the surveillance requirements of Technical Specifications. The manual isolation valves in the MFRV bypass lines were opened on 03-09-90.

Cause of Event

This event was caused by inadequate procedural guidance. Existing procedures did not test all the feedwater isolation logic functions for the MFRV bypass valves.

Reportability Analysis and Safety Assessment

This event is reportable because all the testing requirements of Technical Specifications were not being implemented for the MFRV bypass valves.

The safety significance of this event is lessened by the following:

- The MFRV bypass valves remain closed during normal operation. They are used during plant startup and shutdown (in the range of 2 - 35 percent power).
- The MFRV bypass valves operated satisfactorily when tested.
- A steam generator level of 75 percent which causes a feedwater isolation also trips the main feedwater pumps thus removing the source of the feedwater.
- There are additional valves in the main feedwater system that isolate feedwater to the steam generators. MOVs 3232A,B,C (one valve in each of the main feedwater lines) close automatically on trip of both main feedwater pumps. MOVs 503A,B (one valve at the discharge of each of the main feedwater pumps) close automatically on trip of the associated main feedwater pump.
- The operator could have closed the MFRV bypass valves if required. Also, the emergency procedures require the operator to ensure that the MFRVs and MFRV bypass valves are closed.

Corrective Action

The MFRV bypass valves were verified closed. Isolation valves for the MFRV bypass valves were closed. Testing was conducted to verify that the MFRV bypass valves were operable. Procedures have been revised to include the proper testing requirements. The above actions were accomplished for both PNP units.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 60.0 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 (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		9 0	0 0 2	0 0 0	4	OF	0 4

TEXT (If more space is required, use additional NRC Form 308A's) (17)

Additional Information

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

No components failed during this event.

No similar LERs have been submitted by FNP.