

ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:8803010069 DOC.DATE: 88/02/25 NOTARIZED: NO DOCKET #
 FACIL:50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251
 AUTH.NAME AUTHOR AFFILIATION
 HART,R.D. Florida Power & Light Co.
 CONWAY,W.F. Florida Power & Light Co.
 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: LER 86-015-01:on 860821,auxiliary feedwater sys train
 declared out of svc due to failed valves.

W/8 ltr.

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 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

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LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Turkey Point Unit 4										DOCKET NUMBER (2) 0 5 0 0 0 2 5 1										PAGE (3) 1 OF 0 3																																
TITLE (4) Auxiliary Feedwater System Train Declared Out of Service Due to Failed Valves																																																				
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 8			2 1			8 6			8 6			0 1 5			0 1			0 2			2 5			8 8			N/A													0 5 0 0 0												
0 8			2 1			8 6			8 6			0 1 5			0 1			0 2			2 5			8 8			N/A													0 5 0 0 0												
OPERATING MODE (9) 2									THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)																																											
POWER LEVEL (10) 0 0 2									20.402(b)									20.405(c)									50.73(a)(2)(iv)									73.71(b)																
									20.405(a)(1)(i)									50.38(c)(1)									50.73(a)(2)(v)									73.71(c)																
									20.405(a)(1)(ii)									50.38(c)(2)									50.73(a)(2)(vii)									OTHER (Specify in Abstract below and in Text, NRC Form 355A)																
									20.405(a)(1)(iii)									50.73(a)(2)(ii)									50.73(a)(2)(viii)(A)																									
									20.405(a)(1)(iv)									50.73(a)(2)(iii)									50.73(a)(2)(viii)(B)																									
									20.405(a)(1)(v)									50.73(a)(2)(iii)									50.73(a)(2)(ix)																									
LICENSEE CONTACT FOR THIS LER (12)																																																				
NAME Randall D. Hart, Licensing Engineer																				TELEPHONE NUMBER AREA CODE 310 15 214 16 1-1615 1519																																
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																																
B		BIA		LISV		A 391		Y																																												
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SUPPLEMENTAL REPORT EXPECTED (14)																				EXPECTED SUBMISSION DATE (15)										MONTH DAY YEAR																						
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)																				<input checked="" type="checkbox"/> NO																																

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

On August 20, 1986, with Unit 4 in mode 2, Technical Specification (TS) 3.0.1 was entered due to valve MOV-4-1404 failing to close during testing per Preoperational Procedure (POP) 0800.111, "AFW Steam Supply Replacement Valve Test-Unit 4." Therefore, per procedure 4-OP-075, "Auxiliary Feedwater System," one of two trains of AFW to Unit 4 was not operable. After MOV-4-1404 was declared OOS, the valve was returned to service prior to the reactor having to be placed in hot standby. On August 21, with Unit 4 in mode 2, TS 3.0.1 was entered again because during additional testing per POP 0800.111, valve 10-4-383 failed to seat properly. A cooldown of Unit 4 to below 350 degrees Fahrenheit was initiated. Following cooldown, valve 10-4-383 was replaced. After completion of additional maintenance, Unit 4 returned to criticality on August 23 and valve 10-4-383 was successfully tested per POP 0800.111. Valve MOV-4-1404 failed to close due to a wire bundle being pressed up against the torque switch close contact spring, keeping the contact open. The wire bundle was relocated and the valve was successfully stroked. The check valve was returned to the manufacturer and it was determined that the valve failed because of a misalignment of the disc and seat. The other check valves that were replaced were satisfactorily tested as per POP 0800.111 and did not require any adjustment.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Turkey Point Unit 4	0 5 0 0 0 2 5 1	8 6	— 0 1 5	— 0 1	0 2	OF	0 3

TEXT (If more space is required, use additional NRC Form 303A's) (17)

EVENT:

On August 20, 1986, at 1145, with Unit 4 in mode 2, Technical Specification (TS) 3.0.1 was entered due to train 1 of the auxiliary feedwater (AFW) system (ELIS:BA) being declared out of service (OOS). During testing per Preoperational Procedure (POP) 0800.111, "AFW Steam Supply Replacement Valve Test-Unit 4," the steam supply valve (MOV-4-1404) from the 4B steam generator failed to close. Therefore, per procedure 4-OP-075, "Auxiliary Feedwater System," one of two trains of AFW to Unit 4 was not operable. TS 3.8.4.b requires two independent AFW trains and a third AFW pump to be operable when both reactors are above hot shutdown. However, this TS does not provide any ACTION statements for a unit in mode 2 in this condition, which requires the affected unit to be placed into TS 3.0.1. The valve was repaired and Unit 4 taken out of TS 3.0.1 at 1750 on August 20, 1986.

On August 21, 1986, with Unit 4 in mode 2, TS 3.0.1 was entered because during testing per POP 0800.111, valve 10-4-383 failed to seat properly. Therefore, per procedure 4-OP-075, one of two trains of AFW to Unit 4 was not operable. TS 3.8.4.b requires two independent AFW trains and a third AFW pump to be operable when both reactors are above hot shutdown. However, this TS does not provide any ACTION statements for a unit in mode 2 in this condition, which requires the affected unit to be placed into TS 3.0.1. On August 21, 1986, a cooldown of Unit 4 to below 350 degrees Fahrenheit was initiated at 0040 and completed at 0375. Following cooldown, valve 10-4-383 was replaced. After completion of additional maintenance, Unit 4 returned to criticality on August 23, 1986. Valve 10-4-383 was successfully tested per POP 0800.111 at 2230 on August 23, 1986.

CAUSE OF EVENT:

Valve MOV-4-1404 failed to close due to a wire bundle being pressed up against the torque switch close contact spring, keeping the contact open. The reason for the failure to meet the leakage acceptance criteria of valve 10-4-383 was failure of the valve to seat properly. The check valve was returned to the manufacturer to determine the reason for failing to seat properly. The manufacturer determined that the valve failed because of a misalignment of the disc and seat due to less stringent tolerances at the time the valve was manufactured.

ANALYSIS OF EVENT:

During the time valve 10-4-383 was OOS, AFW steam supply trains 1 and 2 from Unit 3 were operable. Also one steam supply in train 1 and steam supply train 2 were operable. Either unit can supply steam to the AFW pumps. Based on the above, the health and safety of the public were not affected.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Turkey Point Unit 4	0 5 0 0 0 2 5 1	8 6	0 1 5	0 1	0 3	OF	0 3

TEXT (if more space is required, use additional NRC Form 333A's) (17)

CORRECTIVE ACTIONS:

- 1) The wire bundle was relocated and MOV-4-1404 was successfully stroked.
- 2) The two similar valves on Unit 4 were inspected to verify that no wire bundles could interfere with valve operation.
- 3) The results of POP 0800.111 were reviewed and a decision was made to replace valve 10-4-383 with a new valve. The old valve was sent back to the manufacturer to determine a root cause for the failure. The manufacturer determined that the valve failed to seat properly due to a misalignment of the disc and seat. The acceptability of the similar check valves installed with 10-4-383 was discussed with the manufacturer. The manufacturer stated that since the valves passed the testing requirements of POP 0800.111 and the specified service condition of the valves, these valves are adequate and do not require disc alignment.
- 4) The similar check valves installed on Unit 4 under plant change/modification (PC/M) 86-009, Auxiliary Feedwater Steam Supply Valve Replacement, were satisfactorily tested as per POP 0800.111.
- 5) The AFW TS requirements originally located in TS section 3.8.4 have been deleted and replaced by revised TS in section 3.18. The new TS provide modes of applicability and ACTION statements for each mode. This will reduce the likelihood of entering TS 3.0.1 for similar occurrences.

ADDITIONAL DETAILS:

10-4-383 was model number W800149, manufactured by Anchor Darling. MOV-4-1404 is a 4 inch Velan Globe valve with a Limitorque SMB-500 actuator.

Similar Occurrences: None

FPL

FEBRUARY 25 1988

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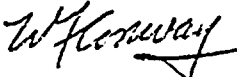
U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D. C. 20555

Gentlemen:

Re: Turkey Point Unit 4
Docket No. 50-251
Reportable Event: 86-15 Revision 1
Date of Event: August 21, 1986
Auxiliary Feedwater System Train
Declared Out of Service Due to Failed Valves

The attached Licensee Event Report Revision is being submitted to provide the supplemental report discussed in our letter L-86-379 dated September 22, 1986.

Very truly yours,


W. F. Conway
Senior Vice President-Nuclear

WFC/SDF/gp

Attachment

cc: Dr. J. Nelson Grace, Regional Administrator,
Region II, USNRC
Senior Resident Inspector, USNRC, Turkey Point Plant

SDF/015.LER

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