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ACCESSION NBR: 8904170293 DOC. DATE: 89/04/04 NOTARIZED: NO DOCKET #
 FACIL: 50-250 Turkey Point Plant, Unit 3, Florida Power and Light C 05000250
 AUTH. NAME: MOWREY, C. AUTHOR AFFILIATION: Florida Power & Light Co.
 CONWAY, W.F. Florida Power & Light Co.
 RECIP. NAME: RECIPIENT AFFILIATION:

SUBJECT: LER 87-006-01: on 870123, two trains of auxiliary feedwater out of svc.

W/8 ltr.

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LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Turkey Point Unit 3	DOCKET NUMBER (2) 0 5 0 0 0 2 5 1 0	PAGE (3) 1 OF 0 3
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TITLE (4) Two Trains of Auxiliary Feedwater Out of Service

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 1	2 3	8 7	8 7	0 0 6	0 1	0 4	0 4	8 9	N/A		0 5 0 0 0

OPERATING MODE (9) 1	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)										
POWER LEVEL (10) 1 0 0	20.402(b)			20.405(c)			50.73(a)(2)(iv)			73.71(b)	
	20.405(a)(1)(i)			50.36(c)(1)			50.73(a)(2)(v)			73.71(c)	
	20.405(a)(1)(ii)			50.36(c)(2)			50.73(a)(2)(vii)			OTHER (Specify in Abstract below and in Text, NRC Form 366A)	
	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 Craig Mowrey, Regulation and Compliance	TELEPHONE NUMBER AREA CODE 3 0 5 2 4 6 - 1 3 0 0 e x t. 2 2 2 1 0
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS
X	B, A	F, T	I, 2, 0, 4	Y					

SUPPLEMENTAL REPORT EXPECTED (14)

<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE) <input checked="" type="checkbox"/> NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
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ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On January 23, 1987, with both Unit 3 and Unit 4 at 100%, the requirements of Technical Specification (TS) 3.8.4.b were not met. TS 3.8.4.b requires two independent Auxiliary Feedwater (AFW) trains to be operable, whenever both units are above hot shutdown. At 0027, AFW train 1 flow indicator FI-1457A was found indicating flow, when a no-flow condition existed. At the time, AFW train 2 flow transmitter FT-1457B was out of service (OOS) for transmitter replacement resulting in AFW train 2 being declared OOS. Two attempts were made to vent FT-1457A before flow indication returned to zero. The flow transmitter was then calibrated. During calibration, AFW train 1 for Unit 3 was declared OOS, leaving Unit 3 with both AFW trains OOS, which did not meet the requirements of TS 3.8.4.b. Not meeting the requirements of TS 3.8.4.b necessitates entry into TS 3.0.1, which requires the unit to be in hot standby within 7 hours. Unit 3 shutdown was commenced at 0027 and stopped at 0400, when calibration and post-maintenance testing of the flow transmitter associated with FI-1457A was satisfactorily completed. The cause of the erroneous flow indication of FI-1457A was due to air in its associated transmitter's sensing line.

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FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Turkey Point Unit 3	0 5 0 0 0 2 5 0	8 7	0 0 6	0 1	0 2	OF	0 3

TEXT (If more space is required, use additional NRC Form 365A's) (17)

EVENT

On January 23, 1987, with both Unit 3 and Unit 4 at 100%, the requirements of Technical Specification (TS) 3.8.4.b were not met. TS 3.8.4.b requires two independent auxiliary feedwater (AFW) trains and a third AFW pump to be operable, whenever both units are above hot shutdown. At 0027, AFW train 1 flow indicator FI-1457A (the flow indicator for the 3B Steam Generator), was found indicating flow, when a no-flow condition existed. At the time, AFW train 2 flow transmitter FT-1457B was out of service (OOS) for transmitter replacement as per a corrective action in a previous licensee event report, resulting in AFW train 2 being declared OOS. Unit 3 was therefore placed in a 72 hour action statement per TS 3.8.5.c, commencing at 0630 on January 22, 1987. Flow transmitter FT-1457A was vented but the flow indication did not return to zero. A second attempt was made to vent the flow transmitter and this time flow indication returned to zero. The flow transmitter was then calibrated. During calibration, AFW train 1 for Unit 3 was declared OOS, leaving Unit 3 with both AFW trains OOS, which did not meet the requirements of TS 3.8.4.b. Not meeting the requirements of TS 3.8.4.b necessitates entry into TS 3.0.1, which requires the unit to be in hot standby within 7 hours. Unit 3 shutdown was commenced at 0027 and stopped at 0400, when calibration and post-maintenance testing of the flow transmitter associated with FI-1457A was satisfactorily completed. Train 2 flow transmitter FT-1457B was declared back in service at 2005 on January 23, 1987, thereby taking Unit 3 out of the 72 hour action statement.

CAUSE OF EVENT

The cause of the erroneous flow indication of FI-1457A was due to air in the sensing line of the associated flow transmitter. The air comes out of solution while at atmospheric pressure during standby conditions. Air in the sensing line creates a slight change in transmitter output signal which in turn causes the associated flow indicator to show approximately 20-30 gpm of flow. This effect is minimized when the system is pressurized during flow conditions.

ANALYSIS OF EVENT

Both units were at 100% power. Although both AFW trains to Unit 3 were technically declared OOS, only the flow indication for the 3B steam generator was affected. Both trains would have performed their design function, upon AFW actuation. Both AFW trains to Unit 4 were unaffected during the event. Based on the above, the health and safety of the public were not affected.



FACILITY NAME (1) Turkey Point Unit 3	DOCKET NUMBER (2) 0 5 0 0 0 2 5 0	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
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TEXT (If more space is required, use additional NRC Form 366A's) (17)

CORRECTIVE ACTION

- 1) The sensing line for the flow transmitter was vented.
- 2) The flow transmitter was calibrated in accordance with Procedure 3-PMI-075.1, Auxiliary Feedwater Flow Indication and Control Instrumentation Calibration Channels F-3-1401 A/B, F-3-1457A/B, and F-3-1458 A/B.
- 3) The transmitter sensing lines have been rerouted to obtain proper slope and eliminate the long horizontal runs where air pockets might be trapped.
- 4) An evaluation of the false indications at zero load no flow conditions has determined that these indications are not an operability concern. Nevertheless, since the ITT-Barton transmitters are obsolete, the unit 4 flow transmitters have been replaced under Plant Change/Modification 84-124. Due to piping differences, a different model is required for Unit 3; they will be replaced during the next refueling outage under Plant Change/Modification 84-123.

ADDITIONAL INFORMATION

The flow transmitter was manufactured by ITT-Barton Instrument, Model 752-1. Similar occurrences: LERs 250-85-037, 250-86-016, and 250-87-004.



APRIL 4 1989

L-89-105
10 CFR 50.73

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

Gentlemen:

Re: Turkey Point Unit 3
Docket Nos. 50-250
Reportable Event: 250-87-06 Revision 1
Date of Event: January 23, 1987
Two Trains of Auxiliary Feedwater Out of Service

The attached Licensee Event Report Supplement is being submitted to provide an update on the corrective actions. Our original report was issued February 23, 1987 in FPL letter L-87-82.

Very truly yours,


W. F. Conway
Senior Vice President - Nuclear

WFC/RHF/gp

Attachment

cc: Stewart D. Ebnetter, Regional Administrator, Region II, USNRC
Senior Resident Inspector, USNRC, Turkey Point Plant

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