

ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8903210386 DOC. DATE: 89/03/17 NOTARIZED: NO DOCKET #
 FACIL: 50-250 Turkey Point Plant, Unit 3, Florida Power and Light C 05000250
 AUTH. NAME AUTHOR AFFILIATION
 MOWREY, C. Florida Power & Light Co.
 CONWAY, W. F. Florida Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 89-005-00: on 890215, automatic auxilliary feedwater pump
 actuation following attempt to start steam generator FWP.
 W/8 ltr.

DISTRIBUTION CODE: IE22D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: Cp
 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES:

	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL
	PD2-2 LA	1 1	PD2-2 PD	1 1
	EDISON, G	1 1		
INTERNAL:	ACRS MICHELSON	1 1	ACRS MOELLER	2 2
	ACRS WYLIE	1 1	AEOD/DOA	1 1
	AEOD/DSP/TPAB	1 1	AEOD/ROAB/DSP	2 2
	ARM/DCTS/DAB	1 1	DEDRO	1 1
	NRR/DEST/ADE 8H	1 1	NRR/DEST/ADS 7E	1 0
	NRR/DEST/CEB 8H	1 1	NRR/DEST/ESB 8D	1 1
	NRR/DEST/ICSB 7	1 1	NRR/DEST/MEB 9H	1 1
	NRR/DEST/MTB 9H	1 1	NRR/DEST/PSB 8D	1 1
	NRR/DEST/RSB 8E	1 1	NRR/DEST/SGB 8D	1 1
	NRR/DLPQ/HFB 10	1 1	NRR/DLPQ/QAB 10	1 1
	NRR/DOEA/EAB 11	1 1	NRR/DREP/RAB 10	1 1
	NRR/DREP/RPB 10	2 2	NRR/DRIS/SIB 9A	1 1
	NUDOCS-ABSTRACT	1 1	REG FILE 02	1 1
	RES/DSIR/EIB	1 1	RES/DSR/PRAB	1 1
	RGN2 FILE 01	1 1		
EXTERNAL:	EG&G WILLIAMS, S	4 4	FORD BLDG HOY, A	1 1
	H ST LOBBY WARD	1 1	LPDR	1 1
	NRC PDR	1 1	NSIC MAYS, G	1 1
	NSIC MURPHY, G. A	1 1		

NOTE TO ALL "RIDS" RECIPIENTS:

PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK,
 ROOM P1-37 (EXT. 20079) TO ELIMINATE YOUR NAME FROM DISTRIBUTION
 LISTS FOR DOCUMENTS YOU DON'T NEED!

TOTAL NUMBER OF COPIES REQUIRED: LTTR 45 ENCL 44

A10-4

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Turkey Point Unit 3										DOCKET NUMBER (2) 0 5 0 0 0 2 5 0										PAGE (3) 1 OF 0 3																													
TITLE (4) Automatic Auxiliary Feedwater Pump Actuation Following Attempt to Start Steam Generator Feedwater Pump																																																	
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			1 5			8 9				8 9			0 0 5			0 0			0 3			1 7			8 9				Turkey Point Unit 3										0 5 0 0 0 2 5 0										
0 2			1 5			8 9				8 9			0 0 5			0 0			0 3			1 7			8 9														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 0										20.402(b)										20.405(c)										<input checked="" type="checkbox"/> 60.73(a)(2)(iv)										73.71(b)									
										20.406(a)(1)(i)										60.38(c)(1)										60.73(a)(2)(v)										73.71(c)									
										20.406(a)(1)(iii)										60.38(c)(2)										60.73(a)(2)(vii)										OTHER (Specify in Abstract below and in Text, NRC Form 365A)									
										20.406(a)(1)(iii)										60.73(a)(2)(i)										60.73(a)(2)(viii)(A)																			
										20.406(a)(1)(iv)										60.73(a)(2)(ii)										60.73(a)(2)(viii)(B)																			
20.406(a)(1)(v)										60.73(a)(2)(iii)										60.73(a)(2)(ix)																													
LICENSEE CONTACT FOR THIS LER (12)																																																	
NAME Craig Mowrey, Regulation & Compliance Group																				TELEPHONE NUMBER																													
																				AREA CODE																													
																				3 0 5 2 4 6 - 6 9 7 1																													
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		S J B		K R		S 1 8 8		No																																									
SUPPLEMENTAL REPORT EXPECTED (14)																																																	
YES (If yes, complete EXPECTED SUBMISSION DATE)																				<input checked="" type="checkbox"/> NO																													
																				EXPECTED SUBMISSION DATE (15)																													
																				MONTH DAY YEAR																													

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

On February 15, 1989, at 0210, with Unit 3 critical at 0% power (approximately 1E -7 amps in the intermediate range), upon attempting to start the 3B Steam Generator Feedwater Pump (SGFP), Auxiliary Feedwater (AFW) flow was automatically initiated. At this time, the 3A SGFP was not running, and the 3A Standby SGFP was supplying water to the unit 3 steam generators. The AFW auto-start logic is enabled when 1) both SGFP breakers are open, and 2) at least one of these SGFP breakers is in a tripped condition.

The cause of this event was a wiring error on a starting circuit relay in the 3B breaker cubicle. The wiring error has been corrected, and the 3B SGFP control circuit has been verified to function properly. The 4B SGFP breaker was supplied by the same manufacturer and was found to have the same wiring error; the error will be corrected by March 19, 1989.

FE22
11



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 3	0 5 0 0 0 2 5 0	8 9	—	0 0 5	—	0 0	0 2 OF 0 3

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

DESCRIPTION OF EVENT

On February 15, 1989, at 0210, the unit 3 Auxiliary Feedwater (AFW) system (EIIS:BA) was automatically actuated when the 3B Steam Generator Feed Pump (EIIS:SJ, component: P) (SGFP) failed to start. The unit was critical at 0% power (approximately 1E -7 amps in the intermediate range). The 3A SGFP was not operating at the time. The 3A Standby SGFP (EIIS:SJ, component: P) was supplying water to the unit 3 steam generators. An attempt was made to start the 3B SGFP from the control switch on the main control console. The pump did not start. When the switch was released from the start position, the logic was satisfied for an automatic start of the AFW system. No other automatic actions took place. The unit remained stable, and normal feed to the steam generators was maintained via the 3A Standby SGFP throughout the event.

CAUSE OF THE EVENT

The SGFP control switch has three positions: START, STOP, and a center neutral position, to which the switch returns when released. The AFW auto-start logic is enabled upon turning the switch to the START position, followed by releasing it to the neutral position. Pump start is indicated by the green SGFP status light going out and the red status light becoming lit, and by the SGFP ammeter indicating current flow. The red light never lit, and no current was indicated, during the event. This same malfunction had occurred before, and a plant work order had already been generated to investigate and repair the malfunction. The investigators discovered a wiring discrepancy that prevented a starting circuit relay coil from reaching full voltage. The as-found wiring matched the vendor wiring drawings, but did not match the plant's elementary wiring diagram.

ANALYSIS OF EVENT

The unit was in Mode 2 at the time of the event, and remained in Mode 2. The AFW pumps automatically started and operated per design. After determining that the unit was stable, AFW flow was terminated. Flow to the steam generators was maintained throughout the event via the 3A Standby SGFP. Based on the above, the health and safety of the public were not affected.

CORRECTIVE ACTIONS

- 1) The wiring discrepancy identified above was corrected, and verified to match the elementary wiring diagram. A Drawing Change Request has been issued to make the vendor drawings agree with the elementary diagram, and with the field.

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 3	0 5 0 0 0 2 5 0	8 9	— 0 0 5	— 0 0	0 3	OF	0 3

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

- 2) The 3B SGFP control circuit, including the circuitry, control switch, and the SGFP breaker 3AC14, was verified to be functioning properly.
- 3) The 3A and 4A SGFP breakers are in a different switchgear, supplied by a different manufacturer, and their elementary diagrams and vendor drawings agree. The 4B breaker switchgear was supplied by Siemens-Allis, as was the 3B, and was checked against its respective diagrams and drawings for similar discrepancies. The same wiring error was found, and a nonconformance report has been written; the wiring error will be corrected by March 19, 1989.

ADDITIONAL INFORMATION

Similar occurrences: LER 250-87-001 documents the same event two years ago, at which time the wiring error was not discovered. The problem has not occurred on Unit 4.



MARCH 17 1989

L-89-100
10 CFR 50.73

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

Gentlemen:

Re: Turkey Point Unit 3
Docket No. 50-250
Reportable Event: 89-05
Date of Event: February 15, 1989
Automatic Auxiliary Feedwater Pump Actuation Following
Attempt to Start Steam Generator Feedwater Pump

The attached Licensee Event Report (LER) is being submitted pursuant to the requirements of 10 CFR 50.73 to provide notification of the subject event.

Very truly yours,


W. F. Conway
Senior Vice President - Nuclear

WFC/RHF/cm

Attachment

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

IFED
11