

ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9003290067 DOC. DATE: 90/03/23 NOTARIZED: NO DOCKET #
 FACIL: 50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251
 AUTH. NAME AUTHOR AFFILIATION
 POWELL, D.R. Florida Power & Light Co.
 HARRIS, K.N. Florida Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 90-001-00: on 900228, intake cooling water pump 4C
 declared inoperable.

W/9 ltr.

DISTRIBUTION CODE: IE22T COPIES RECEIVED: LTR ENCL SIZE: 4
 TITLE: 50.73/50.9 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:	ACNW	2 2		AEOD/DOA	1 1
	AEOD/DSP/TPAB	1 1		AEOD/ROAB/DSP	2 2
	DEDRO	1 1		NRR/DET/ECMB 9H	1 1
	NRR/DET/EMEB9H3	1 1		NRR/DET/ESGB 8D	1 1
	NRR/DLPQ/LHFB11	1 1		NRR/DLPQ/LPEB10	1 1
	NRR/DOEA/OEAB11	1 1		NRR/DREP/PRPB11	2 2
	NRR/DST/SELB 8D	1 1		NRR/DST/SICB 7E	1 1
	NRR/DST/SPLB8D1	1 1		NRR/DST/SRXB 8E	1 1
	REG FILE 02	1 1		RES/DSIR/EIB	1 1
	RGN2 FILE 01	1 1			
EXTERNAL:	EG&G STUART, V.A	1 1		L ST LOBBY WARD	1 1
	LPDR	1 1		NRC PDR	1 1
	NSIC MAYS, G	1 1		NSIC MURPHY, G.A	1 1
	NUDOCS FULL TXT	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!

FULL TEXT CONVERSION REQUIRED
 TOTAL NUMBER OF COPIES REQUIRED: LTTR 32 ENCL 32

A/10-4
ent



MAR 23 1990

L-90-117
10 CFR 50.73

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: 90-01
Date of Event: February 28, 1990
Intake Cooling Water (ICW) Pump 4C Declared Inoperable to
Replace the Discharge Line Pressure Indicator Isolation Valve
While Emergency Diesel Generator 'A' was Out of Service

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

Very truly yours,

K. N. Harris
Vice President
Turkey Point Plant Nuclear

KNH/DRP/DWH/rat

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

9003290067 900323
PDR ADDCK 05000251
S FDC

IF 22
111

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Turkey Point Unit 4										DOCKET NUMBER (2) 0 5 0 0 0 2 5 1 1										PAGE (3) 1 OF 013			
TITLE (4) Intake Cooling Water Pump 4C Declared Inoperable To Replace The Discharge Line Pressure Indicator Isolation Valve While Emergency Diesel Generator A Was 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 NA						DOCKET NUMBER(S) 0 5 0 0 0								
0	2	2	8	9	0	9	0	0	1	0	0	0	3	2	3	9	0	0 5 0 0 0					
OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)																					
1		20.402(b)				20.406(e)				50.73(a)(2)(iv)				73.71(b)									
POWER LEVEL (10)		20.406(a)(1)(i)				50.36(e)(1)				50.73(a)(2)(v)				73.71(c)									
1 0 0		20.406(a)(1)(ii)				50.36(e)(2)				50.73(a)(2)(vi)				OTHER (Specify in Abstract below and in Text, NRC Form 356A)									
		20.406(a)(1)(iii)				50.73(a)(2)(i)				50.73(a)(2)(vii)(A)													
		20.406(a)(1)(iv)				50.73(a)(2)(ii)				50.73(a)(2)(vii)(B)													
		20.406(a)(1)(v)				50.73(a)(2)(iii)				50.73(a)(2)(viii)													
LICENSEE CONTACT FOR THIS LER (12)																							
NAME										TELEPHONE NUMBER													
David R. Powell, Regulation and Compliance Supervisor										AREA CODE		3 0 1 5 2 1 4 6 1 - 6 1 5 1 9											
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	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC				
SUPPLEMENTAL REPORT EXPECTED (14)														EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR					
YES (If yes, complete EXPECTED SUBMISSION DATE)														X NO									

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

At 1800, on February 28, 1990, with Unit 4 in Mode 1 at 100 percent power, Control Room personnel were notified that the isolation valve for the 4C Intake Cooling Water (ICW) pump discharge line pressure indicator was not the correct valve type. The 4C ICW pump was declared inoperable. The 4A ICW pump receives emergency power from Emergency Diesel Generator (EDG) A. The 4B and 4C ICW pumps receive emergency power from EDG B. At 0445 on February 28, 1990, EDG A was taken out of service. Technical Specification (TS) 3.0.5 states that the 4A ICW pump need not be considered inoperable due to inoperability of its normal or emergency power supply if all of its redundant components are operable with their normal or emergency power supplies operable. When the 4C ICW pump was declared inoperable, the 4A ICW pump was considered by TS 3.0.5 to be inoperable. TS 3.4.5.b.2 allows one ICW pump to be taken out of service for a period of 24 hours. With two ICW pumps inoperable, Unit 4 was placed in TS 3.0.1. Installation of the incorrect type valve was due to a cognitive error by a non-licensed utility person. The health and safety of the public were not affected by the as-found condition. At 1920, the valve was replaced with the correct valve type and Unit 4 exited TS 3.0.1. Disciplinary actions were administered.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		90	001	0	02	OF	03

Turkey Point Unit 4

0500025190-001-0002 OF 03

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

DESCRIPTION OF THE EVENT

At 1800, on February 28, 1990, with Unit 4 in Mode 1 at 100 percent power, Control Room personnel were notified that the isolation valve (4-50-372) (EII:BI, Component:ISV) in the 1/2 inch line for the 4C Intake Cooling Water (ICW) pump discharge line pressure indicator (PI-4-1452) was not the correct valve type. The 4C ICW pump was declared inoperable and Maintenance Department personnel were notified of the as-found condition. Unit 4 entered Technical Specification (TS) 3.0.1 at this time.

The 4A ICW pump receives emergency power from Emergency Diesel Generator (EDG) A. The 4B and 4C ICW pumps receive emergency power from EDG B. EDG A had been taken out of service at 0445, on February 28, 1990, to perform 18 month Preventive Maintenance tasks (PMs); therefore, the emergency power supply for the 4A ICW pump was inoperable. TS 3.0.5 states that for the purposes of determining if a component is operable for Limiting Condition for Operation (LCO) considerations, the component need not be considered inoperable due to inoperability of its normal or emergency power supply if all of its redundant components are operable with their normal or emergency power supplies operable. With the emergency power supply for the 4A ICW pump inoperable, declaring the 4C ICW pump inoperable violated the conditions of TS 3.0.5 and resulted in both the 4A and 4C ICW pumps being inoperable.

TS 3.4.5.b.2 allows one ICW pump to be taken out of service for a period of 24 hours. With two ICW pumps inoperable, the Limiting Condition for Operation (LCO) Action Statement requirements of TS 3.4.5.b.2 could not be met. This placed Unit 4 in TS 3.0.1.

TS 3.7.2.b allows power operation to continue if one diesel generator is out of service provided the remaining diesel generator is tested daily and its associated engineered safety features are operable, and either start-up transformer is operable. The ICW pumps are engineered safety features. When the 4C ICW pump was declared inoperable, the conditions of TS 3.7.2.b were not met. This also placed Unit 4 in TS 3.0.1.

At 1810, on February 28, 1990, the 4B ICW pump was started. At 1812, the 4C ICW pump was stopped. At 1920 replacement of the 4C ICW pump discharge line pressure indicator isolation valve was completed and the 4C ICW pump was declared operable. Unit 4 exited TS 3.0.1 at this time.

CAUSE OF THE EVENT

Installation of the incorrect valve type for the 4C ICW pump discharge line pressure indicator isolation application was due to a cognitive error by a non-licensed utility person. An individual familiar with FPL procedures and administrative processes intentionally made a modification to a system without authorization. The modification was perceived by the individual to be a better design than that implemented during a recent Plant Change/Modification (PC/M).

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 1	9 0	— 0 0 1	— 0 0 0	3	OF	0 3

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

Clogging of the ICW pump discharge line pressure indicator isolation valves had required frequent cleaning of the isolation valve and pressure indicator line. The use of a ball valve instead of a globe valve in this application was preferred by the individual because a ball valve does not have to be disassembled to unclog.

ANALYSIS OF THE EVENT

A Nonconformance Report written against the as-found condition states that the 1/2 inch ICW pump discharge line pressure indicator isolation valves are small enough such that failure of this component would not cause enough flow diversion to affect the ICW System safety function. The health and safety of the public were not affected by the incorrect valve type being used as the isolation valve for the 4C ICW pump discharge line pressure indicator.

Based on the above information, the as-found condition did not render the 4C ICW pump inoperable. However, once the pump breaker was racked out to effect change-out of the isolation valve, the 4C ICW pump became inoperable.

CORRECTIVE ACTIONS

1. The 4C ICW pump discharge line pressure indicator isolation valve configuration has been changed to meet PC/M 88-214 design requirements.
2. Disciplinary action has been administered to the individual involved.
3. This event and its ramifications will be discussed during FPL Craft shop meetings at Turkey Point. This action will be completed by April 30, 1990.

ADDITIONAL INFORMATION

A similar event was reported in Licensee Event Report LER 50-250/89-006.