

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8806130051 DOC. DATE: 88/05/27 NOTARIZED: NO DOCKET #
 FACIL: 50-250 Turkey Point Plant, Unit 3, Florida Power and Light C 05000250
 AUTH. NAME AUTHOR AFFILIATION
 SALAMON, G. Florida Power & Light Co.
 CONWAY, W. F. Florida Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 88-007-00: on 880427, 3A intake cooling water (ICW) pump
 out of svc due to discharge pressure gauge piping failure.
 Caused by corrosion of coupling attaching pressure gauge
 piping to ICW discharge pipe. Piping repaired. W/880527 ltr.

DISTRIBUTION CODE: IE22D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 4
 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
	AEOD/DOA	1 1		AEOD/DSP/NAS	1 1
	AEOD/DSP/ROAB	2 2		AEOD/DSP/TPAB	1 1
	ARM/DCTS/DAB	1 1		DEDRO	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
	RECEIVED 02	1 1		RES TELFORD, J	1 1
	RES/DE/EIB	1 1		RES/DRPS DEPY	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 HARRIS, J	1 1
	NSIC MAYS, G	1 1			

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
Turkey Point Unit 3	0 5 0 0 0 2 5 0	1 OF 0 3

TITLE (4)
Three Intake Cooling Water (ICW) Pumps Inoperable Upon ICW Pump A and Emergency Diesel Generator B Being Out of Service Concurrently

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	4	2	7	8	8	8	8	8	N/A		0 5 0 0 0 0
0	4	2	7	8	8	8	8	8			0 5 0 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)										
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)	50.38(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 366A)							
	20.405(a)(1)(iii)	50.73(a)(2)(i)	50.73(a)(2)(viii)(A)								
	20.405(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)								
	20.405(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(x)								

LICENSEE CONTACT FOR THIS LER (12)											
NAME								TELEPHONE NUMBER			
Gabe Salamon, Compliance Engineer								3 0 5 2 4 6 - 6 5 6 0			

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)											
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	
B	B I	P S F	B 1 3 0	Y							

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 April 27, 1988, at 0927 with Unit 3 at 100% power, the 3A Intake Cooling Water (ICW) pump was stopped and declared out of service (OOS) due to a discharge pressure gauge piping failure. The 3A ICW pump receives its emergency power from the A Emergency Diesel Generator (EDG) and the 3B and 3C ICW pumps receive their emergency power from the B EDG, which was OOS for scheduled preventive maintenance. When the 3A ICW pump was declared OOS, the 3B and 3C ICW pumps became technically OOS in accordance with Technical Specification (TS) 3.0.5, even though they continued to operate. With more than one ICW pump OOS, the unit entered TS 3.0.1. At 1045 on April 27, 1988, the B EDG was returned to service thus the 3B and 3C ICW pumps also became operable. The unit then exited TS 3.0.1, and entered TS 3.4.5.b.2, which permits one ICW pump to be OOS for 24 hours. The pressure gauge piping was repaired and the 3A ICW pump was returned to service at 1209 on April 27, 1988. The unit exited TS 3.4.5.b.2 at that time. The cause of the failure of the 3A ICW pumps discharge pressure gauge piping was corrosion of the coupling which attaches the pressure gauge piping to the ICW discharge pipe due to a leak and the use of a carbon steel instead of a stainless steel coupling. The cause of the improper material usage is under investigation to determine if any additional corrective actions are required.

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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 3	0 5 0 0 0 2 5 0	8 8	— 0 0 7	— 0 0	0 2	OF	0 3

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

EVENT

On April 27, 1988, at 0927 with Unit 3 at 100% power, the 3A Intake Cooling Water (ICW) (EIIS:BI) pump was stopped and declared out of service (OOS) due to a discharge pressure gauge piping failure, and the 3B ICW pump was started. The 3A ICW pump receives its emergency power from the A Emergency Diesel Generator (EDG) (EIIS:EK) and the 3B and 3C ICW pumps receive their emergency power from the B EDG. At the time of this event, the B EDG was OOS for scheduled preventive maintenance.

Technical Specification (TS) 3.4.5.b permits one ICW pump to be OOS for a period of 24 hours. TS 1.4 states that implicit in the definition of "operable" shall be the assumption that "...normal and emergency power sources... required for the system... to perform its function(s) are also capable of performing their related support function(s)." TS 3.0.5 states that "...a 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."

When the 3A ICW pump was declared OOS, the 3B and 3C ICW pumps became technically OOS in accordance with TS 3.0.5, even though they continued to operate. With more than one ICW pump OOS, the unit entered TS 3.0.1, which requires that within one hour action shall be initiated to place the unit in a mode in which the specification does not apply (mode 5). At 1027 preparations for a unit shutdown in accordance with TS 3.0.1 were initiated. At 1045 on April 27, the B EDG was returned to service. With the B EDG operable, the 3B and 3C ICW pumps also became operable, the unit exited TS 3.0.1, and entered TS 3.4.5.b.2, which permits one ICW pump to be OOS for 24 hours. The pressure gauge piping was repaired and the 3A ICW pump was returned to service at 1209 on April 27, 1988. The unit exited TS 3.4.5.b.2 at that time. It was later determined that the coupling and associated fitting should be stainless steel instead of carbon steel. The coupling and fitting were then replaced with stainless steel components.

CAUSE OF EVENT

The cause of the failure of the 3A discharge pressure gauge piping was corrosion of the coupling which attaches the pressure gauge piping to the ICW discharge pipe. The corrosion was due to the use of a carbon steel coupling instead of a stainless steel coupling which piping specifications call for, and a leak which developed at the joint between the coupling and the discharge pipe.

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	05000250	88	007	00	03	OF	03

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

ANALYSIS OF EVENT

ICW pumps 3B and 3C, though technically inoperable, continued to operate during the time that EDG B was OOS. Based on the above, the health and safety of the public were not affected.

CORRECTIVE ACTIONS

- 1) The pressure gauge piping was repaired and ICW pump 3A was returned to service.
- 2) EDG B was returned to service expediently, thus restoring the 3B and 3C ICW pumps to operability.
- 3) The carbon steel coupling and fitting were replaced with a stainless steel coupling and fitting.
- 4) The corresponding couplings and fittings on ICW pumps 3B, 3C, 4A, 4B, and 4C were examined. Only the 3C ICW pump was identified as having a carbon steel coupling and fitting, which were then replaced by a stainless steel coupling and fitting.
- 5) The cause of the corrosion and the use of improper coupling material is under investigation to determine if any additional corrective actions are required.

ADDITIONAL INFORMATION

Similar occurrences: LERs 251-87-04 and 251-87-28 reported events where two ICW pumps were OOS at the same time, though the causes for the previous events were different than the current event.



MAY 27 1988

L-88-243
10 CFR 50.73

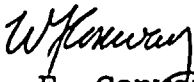
U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D. C. 20555

Gentlemen:

Re: Turkey Point Unit 3
Docket No. 50-250
Reportable Event: 88-07
Date of Event: April 27, 1988
Three Intake Cooling Water (ICW) Pumps
Inoperable Upon ICW Pump A and Emergency Diesel
Generator B Being Out of Service Concurrently

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/SDF/gp

Attachment

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

SDF3.LER