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ACCESSION NBR:8902280007 DOC.DATE: 89/02/09 NOTARIZED: NO DOCKET #
 FACIL:50-250 Turkey Point Plant, Unit 3, Florida Power and Light C 05000250
 AUTH.NAME AUTHOR AFFILIATION
 LYONS,E. Florida Power & Light Co.
 CONWAY,W.F. Florida Power & Light Co.
 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: LER 89-001-00:on 890110,3A ICW pump declared out of svc
 while performing operability test of EDG B.

W/8 ltr.

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EXTERNAL:	EG&G WILLIAMS,S	4 4	FORD BLDG HOY,A	1 1
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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 0					PAGE (3) 1 OF 0 3								
TITLE (4) 3A Intake Cooling Water Pump Declared Out of Service While Performing Operability Test of "B" Emergency Diesel Generator																							
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 N/A				DOCKET NUMBER(S) 0 5 0 0 0										
0	1	1	0	8	9	8	9	0	0	1	0	0	0	2	0	9	8	9	0	5	0	0	0
OPERATING MODE (9) 5		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)				50.73(a)(2)(iv)				73.71(b)									
		20.405(a)(1)(i)				50.36(e)(1)				50.73(a)(2)(v)				73.71(c)									
		20.405(a)(1)(ii)				50.36(e)(2)				50.73(a)(2)(vi)				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)(ix)													
LICENSEE CONTACT FOR THIS LER (12)																							
NAME Edward Lyons, Compliance Engineer										TELEPHONE NUMBER AREA CODE 3 0 5 2 4 6 - 6 7 3 1													
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	I	M	O																			
SUPPLEMENTAL REPORT EXPECTED (14)																							
YES (If yes, complete EXPECTED SUBMISSION DATE)										X NO		EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR							

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

On January 10, 1989, at 0250, with Unit 3 in cold shutdown, the "B" Emergency Diesel Generator (EDG) was undergoing an 8 hour full load operability test, and therefore, was out of service. At that time, the 3A Intake Cooling Water (ICW) pump was stopped due to a high pitched whine and observed shaft wobble. At 0345 the pump motor breaker was racked out to allow trouble shooting. With the 3A ICW pump out of service and the "B" EDG out of service, there would be no ICW pump available to support the Unit 3 Residual Heat Removal system in the event of a loss of offsite power. The "B" EDG successfully completed its operability test, and at 0945 was declared back in service. The 3A ICW pump was checked for motor current, vibration and shaft breakaway torque. Troubleshooting did not identify any failure of the pump or motor. At 1842 the 3A ICW pump was declared back in service. The 3A ICW pump was monitored for motor current and motor bearing temperature on a regular basis from January 11, 1989 through January 30, 1989. In addition, vibration measurements were taken on 11 occasions during the period January 10 through January 23, 1989. This monitoring did not identify any unacceptable pump operation, and it was concluded that the pump was operable and capable of performing its safety function, except during the time that its breaker was racked out.

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
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TEXT (If more space is required, use additional NRC Form 368A's) (17)

DESCRIPTION OF EVENT

On January 10, 1989, at 0250, with Unit 3 in cold shutdown, the "B" Emergency Diesel Generator (EDG) (EIIIS:EK, Component:DG) was undergoing an 8 hour full load operability test following preventative maintenance. Because of this test, the "B" EDG was out of service. At that time, the 3A Intake Cooling Water (ICW) pump (EIIIS:BI, Component:P) was stopped due to a high pitched whine and observed shaft wobble. This condition was discovered by a utility non licensed operator. The pump was declared out of service and at 0345 the pump breaker was racked out to allow troubleshooting.

At Turkey Point Unit 3, the ICW system provides cooling for the Component Cooling Water System, which in turn provides cooling for the Residual Heat Removal System. Three ICW pumps are provided. If emergency power is required, the 3A ICW pump is powered by the "A" EDG, while the 3B and 3C ICW pumps are powered by the "B" EDG. Therefore, with the 3A ICW pump out of service and the "B" EDG out of service for testing, there would be no available ICW pump in the event of a loss of offsite power.

The test of the "B" EDG was successfully completed, and at 0945 on January 10, 1989 the "B" EDG was declared back in service. Troubleshooting of the 3A ICW pump did not identify any problems with the pump or motor. Troubleshooting included vibration readings, pump motor current readings and a measurement of shaft breakaway torque. At 1842, on January 10, 1989, the 3A ICW pump was returned to service. On January 11, 1989, the Maintenance Department initiated shiftly monitoring of the 3A ICW pump motor current and motor bearing temperature. Through January 30, 1989, this monitoring did not identify unacceptable pump operation. In addition, vibration measurements were taken on 11 occasions during the period January 10, 1989 through January 23, 1989, and again on January 27, 1989. These measurements did not indicate unacceptable vibration during this period. Because the pump and motor parameters have not degraded, it was concluded that the pump was operable until the time that it was removed from service to allow troubleshooting.

CAUSE OF THE EVENT

The "B" EDG was out of service because of scheduled operability testing required by Technical Specifications. The 3A ICW pump was taken out of service because of a perceived shaft wobble and high pitched noise emanating from the motor lower bearing. However, it was later concluded that there was no shaft wobble (based on the vibration measurements performed), and that the high pitched whine was caused by air flow through the pump motor and housing (based on the acceptable motor bearing temperatures and motor current). It is therefore concluded that the 3A ICW pump was operable and capable of performing its safety function, except during the time its breaker was racked out.

ANALYSIS

Throughout this event, offsite power was available, and cooling was provided for the Unit 3 core by the Residual Heat Removal (RHR) system. If offsite power

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

had been lost, the ability of the ICW system to support RHR cooling would have also been lost for a short duration when the 3A ICW pump breaker was racked out. If this event had occurred, restoration of ICW cooling could have been accomplished by racking in the breaker for the 3A ICW pump motor and starting the pump. Unit 3 had been shutdown for approximately three months prior to this event, therefore the decay heat level was low, and adequate time would have been available to rack in the breaker for the 3A ICW pump motor.

CORRECTIVE ACTIONS

- 1) The operability test of the "B" EDG was completed satisfactorily, and the "B" EDG was returned to service at 0945 on January 10, 1989.
- 2) The 3A ICW pump was checked for shaft break away torque, motor current and vibration. These checks did not yield unacceptable results, and the pump was returned to service at 1842 on January 10, 1989.
- 3) The 3A ICW pump was monitored for motor current and motor bearing temperatures approximately once per shift from January 11, 1989 through January 30, 1989. The data gathered did not identify unacceptable pump operation.
- 4) The 3A ICW pump was monitored for vibration on 11 occasions during the period January 10, 1989 through January 23, 1989, and again on January 27, 1989. The data gathered did not identify unacceptable pump vibration.

ADDITIONAL INFORMATION

Similar events: LER 250-88-007 describes an event involving similar circumstances, however the cause of the event was different.

The 3A ICW pump is manufactured by Johnston Pumps, model no. 33CMC.
The 3A ICW pump motor is manufactured by Louis-Allis, model no. 2450 M.



FPL

P.O. Box 14000, Juno Beach, FL 33408-0420

FEBRUARY 9 1989

L-89-45
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: 89-01
Date of Event: January 10, 1989
3A Intake Cooling Water Pump Declared Out of Service While
Performing Operability Test of "B" Emergency Diesel Generator

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/gp

Attachment

cc: Malcolm L. Ernst, Acting Regional Administrator, Region II,
USNRC
Senior Resident Inspector, USNRC, Turkey Point Plant

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