REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8708190331 DOC. DATE: 87/08/14 NOTARIZED: NO DOCKET #
FACIL: 50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251
AUTH. NAME AUTHOR AFFILIATION
WAGER, V. Carolina Power & Light Co.
WOODY, C. O. Carolina Power & Light Co.
RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 87-012-00: on 870705, auto start of component cooling water (CCW) pump during Unit 3 engineered safeguards integrated test due to low header pressure upon increased CCW flow. Integrated test revised. W/870814 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	COPIES ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR	COPIES ENCL
	PD2-2 LA	1	1	PD2-2 PD	1	1
	McDONALD, D	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
	DEDRO	1	1	NRR/DEST/ADS	1	0
	NRR/DEST/CEB	1	1	NRR/DEST/ELB	1	1
	NRR/DEST/ICSB	1	1	NRR/DEST/MEB	1	1
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	NRR/DEST/RSB	1	1	NRR/DEST/SGB	1	1
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	REG FILE 02	1	1	RES DEPY GI	1	1
	RES TELFORD, J	1	1	RES/DE/EIB	1	1
	RGN2 FILE 01	1	1			
EXTERNAL:	EG&G GROH, M	5	5	H ST LOBBY WARD	1	1
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NRC Form 366
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/88

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
Turkey Point Unit 4	0 5 0 0 0 2 5 1	1 OF 0 3

TITLE (4) Auto Start of 4B Component Cooling Water Pump (CCW) During Unit 3 Engineered Safeguards Integrated Test Due to Low Header Pressure Upon Increased CCW Flow

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 7	0 5	8 7	8 7	0 1 2	0 1	0 8	1 4	8 7	Turkey Point Unit 3	0 5 0 0 0 2 5 0
										0 5 0 0 0

OPERATING MODE (9)	3	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)	X 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)(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
	AREA CODE
Virgil Wager, Licensing Engineer	3 0 5 — 2 4 6 - 6 4 7 6

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	

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 0212, on July 5, 1987, with Unit 4 in Hot Standby (Mode 3) and Unit 3 in Cold Shutdown (Mode 5), the Unit 3 Engineered Safeguards Integrated Test (3-OSP-203) was commenced. As required by the procedure, D Motor Control Center (MCC) was de-energized. The D MCC supplies power to the 4A Emergency Containment Cooler and Fan and the associated Component Cooling Water (CCW) valves. These CCW valves failed open, as designed, when the D MCC was de-energized, causing increased CCW flow on Unit 4. At 0213, the increased flow decreased the Unit 4 CCW header pressure sufficiently to result in an auto start of the 4B CCW pump. The operations personnel verified that Unit 4 CCW pressure returned to normal pressure after start of the 4B CCW pump. Upon restoration of power to the D MCC by the Emergency Diesel Generator the operators verified the 4A Emergency Containment Cooler (CCW) valves assumed proper positions. The Engineered Safeguards Integrated Test procedure, 3-OSP-203, will be enhanced to caution the operators to verify that two Unit 4 CCW pumps are running prior to commencing the test in order to prevent a CCW pump auto start when the D MCC is de-energized.

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FACILITY NAME (1)	DOCKET NUMBER (2)	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)

EVENT

At 0212, on July 5, 1987, with Unit 4 in Hot Standby (Mode 3) and Unit 3 in Cold Shutdown (Mode 5), the Unit 3 Engineered Safeguards Integrated Test (3-OSP-203) was commenced. As required by the procedure, a signal for Loss Of Offsite Power was simulated by opening the Start-up Transformer breakers on Unit 3. This started the Emergency Diesel Generators which after a programmed 35 second time delay, repowered all vital loads. During this 35 second time delay, the D Motor Control Center (MCC) was de-energized. The D MCC also supplies power to the 4A Emergency Containment Cooler and Fan, and the associated Component Cooling Water (CCW) valves. These CCW valves failed open as designed on loss of power to the D MCC thereby causing increased CCW flow on Unit 4. The increased flow reduced the CCW header pressure sufficiently to result in an auto start of the 4B CCW pump at 0213. The operations personnel verified that Unit 4 CCW pressure returned to normal pressure after the start of the 4B CCW pump. Upon restoration of power to the D MCC by the Emergency Diesel Generator the operators verified the 4A Emergency Containment Cooler CCW valves assumed proper positions. The systems and components responded as designed.

CAUSE OF EVENT

The Unit 4 CCW system was lined up for normal operation in accordance with the provisions of 4-OP-030, Component Cooling Water Procedure. At the time of the event, one of the three operable CCW pumps was running to supply the Unit 4 CCW system. A second CCW pump was not started in anticipation of the test, in order to accomodate the additional flow resulting from the valves failing open and minimizing the pressure drop in the CCW header. Consequently, when the D MCC was de-energized the CCW valves associated with 4A Emergency Containment Cooler failed open causing increased CCW flow which lowered the Unit 4 CCW header pressure sufficiently to auto start the second CCW pump (4B Pump).

ANALYSIS OF EVENT

All three of the Unit 4 CCW pumps were operable. One pump was running at the time of the event. The second pump auto started on low CCW header pressure. The systems and components functioned as designed.

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

Both units were in shutdown modes, with Unit 3 in Mode 5 and Unit 4 in Mode 3. Based on the above the health and safety of the public were not affected.

CORRECTIVE ACTIONS

1) The operators verified the Unit 4 CCW pressure returned to normal pressure after the start of the second CCW pump (4B).
2) The operators verified the 4A Emergency Containment Cooler CCW valves assumed proper positions following power restoration to D MCC by the Emergency Diesel Generator.
3) Procedure 3-OSP-203, Engineered Safeguards Integrated Test will be enhanced to caution the operators to verify that two Unit 4 CCW pumps are running prior to commencing the test in order to prevent a CCW pump auto start when the D MCC is de-energized.

ADDITIONAL DETAILS

Similar occurrences: none

P. O. BOX 4000, JUNO BEACH, FL 33408

FLORIDA POWER & LIGHT COMPANY

AUGUST 14 1987

L-87-335
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: 87-12 Revision 1
Date of Event: July 5, 1987
Auto Start of 4B Component Cooling Water Pump
During Unit 3 Engineered Safeguards Integrated Test
Due to Low Header Pressure Upon Increased CCW Flow

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

This revision is being submitted to correct extra words inadvertently left in a sentence in the event section in Revision 0, L-87-319.

Very truly yours,

C. O. Woody
Group Vice President
Nuclear Energy

COW/SDF/gp

Attachment

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

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