NRC Form 366
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/85

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 1

TITLE (4)
Engineered Safety Feature Actuation - Turbine Runback

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)
									N/A	0 5 0 0 0
0 6	1 0	8 4	8 4	- 0 1 1	- 0 0	0 7	1 0	8 4	N/A	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)							
	N	20.402(b)		20.405(c)	X	50.73(a)(2)(iv)		73.71(b)	
POWER LEVEL (10)	1 0 0	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
Paul A. Roach, Regulation and Compliance Engineer	3 0 5 2 4 5 - 2 9 1 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	

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)

On June 10, 1984, at 12:18 a.m., a turbine runback to approximately 510 megawatts occurred. The root cause was determined to stem from an electrical transient in the "normal" (4A) static inverter (4Y01) that was in service supplying power to a vital 120 volt (a.c.) instrument power bus (panel 4P07). This resulted in a momentary loss of power to vital panel 4P07 and its feeds to the nuclear instrumentation system (NIS) channel N-42 power range nuclear instrumentation. A momentary loss of NIS channel N-42 detector voltage resulted and initiated an "NIS ROD DROP" signal which generated the turbine runback. Immediate corrective actions included stabilizing the unit, swapping the vital panel onto the "standby" (AS) static inverter (3Y04) and completion of satisfactory logic circuit testing and load testing of the 4A inverter with a resistive load of 53 amps performed with line disturbance monitoring equipment which did not record any abnormal fluctuations. The 4A inverter was returned to service and licensed operators were requested to maintain an awareness of the inverters status. Long term corrective actions include replacement of the inverters with state of the art equipment to ensure a more reliable power supply and evaluation of design changes to the "NIS ROD DROP" circuit to prevent a turbine runback on a spurious "NIS ROD DROP" signal. All equipment functioned as designed on initiation of the engineered safety feature actuation signal (ESFAS) generated in the reactor protection system. A malfunction of the steam dump to condenser system did occur and investigation revealed a pair of leads "rolled" on the differentiator (PM-447C) which senses load rejection. The leads were reversed and satisfactory testing completed. The unit returned to full power operation at approximately 11:00 a.m. on the same day. The health and safety of the public were not affected. Similar occurrences: LER 250-84-009, LER 250-84-013, and LER 250-84-015.

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FLORIDA POWER & LIGHT COMPANY

July 10, 1984
PNS-LI-84-235

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

Gentlemen:

Re: Reportable Event 84-11
Turkey Point Unit 4
Date of Event: June 10, 1984
Engineered Safety Feature Actuation-Turbine Runback

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

Very truly yours,

J. W. Williams, Jr.
Group Vice President
Nuclear Energy

JWW/PLP/js

Attachment

cc: J. P. O'Reilly, Region II, USNRC
Harold F. Reis, Esquire
File 933.1 TP

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