

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8806020092 DOC. DATE: 88/05/24 NOTARIZED: NO DOCKET #
 FACIL: 50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251
 AUTH. NAME AUTHOR AFFILIATION
 SALAMON, G. Florida Power & Light Co.
 CONWAY, W. F. Florida Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 88-005-00: on 880425, calibr of nuclear instrumentation
 sys power range detectors performed late. Caused by
 personnel error. Digital data processing sys repaired & group
 responsible for performance discussed event. W/880524 ltr.

DISTRIBUTION CODE: IE22D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 4
 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES:

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	ID CODE/NAME		LTTR	ENCL		ID CODE/NAME		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
	REG FILE 02		1	1		RES TELFORD, J		1	1
	RES7DE/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) Turkey Point Unit 4										DOCKET NUMBER (2) 0 5 0 0 0 2 5 1					PAGE (3) 1 OF 03		
TITLE (4) Calibration of Nuclear Instrumentation System Power Range Detectors Performed Late Due to Personnel Error																	
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)				
04	25	88	88	005	00	05	24	88					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)				20.405(c)				50.73(a)(2)(iv)				73.71(b)			
POWER LEVEL (10)		20.405(a)(1)(i)				60.38(c)(1)				50.73(a)(2)(v)				73.71(c)			
100		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)(ix)							
LICENSEE CONTACT FOR THIS LER (12)																	
NAME Gabe Salamon, Compliance Engineer										TELEPHONE NUMBER AREA CODE 305 246-6560							
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																	
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS							
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)

The Nuclear Instrumentation System (NIS) Power Range detectors are calibrated by performing a calorimetric measurement and comparing the results with the NIS indicated power. This is usually performed automatically by the Digital Data Processing System (DDPS). It was last performed on April 24, 1988, at 0730. Due to malfunctions, the DDPS was declared out of service (OOS) at 2108, April 24. Efforts to return the DDPS to service were initiated immediately, however a Plant Work Order (PWO) to repair the DDPS was generated at approximately 0730 when it became apparent that Instrumentation and Controls (I&C) maintenance help was required. Until about 1030, the emphasis was placed upon fixing the DDPS and it was believed that a manual calculation would not be needed. At approximately 1100, efforts to perform the calculation manually were initiated, however the calculation was not completed until 1358. As the grace period expired at 1330, the Power Range detectors were declared OOS, and the unit entered TS 3.0.1. At 1358, the detectors were returned to service and the unit exited TS 3.0.1. The cause of the late surveillance was personnel error. The DDPS was repaired. The group responsible for the performance of this surveillance discussed this event in order to prevent recurrence by assuring that adequate time is allotted to perform the surveillance manually.

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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 4	0 5 0 0 0 2 5 1	8 8	0 0 5	0 0	0 2	OF	0 3

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

EVENT

Turkey Point calibrates the Nuclear Instrumentation System (NIS) (EIIS:IG) Power Range detectors by performing a calculation of heat rate output of the reactor (calorimetric measurement) and comparing the results with the NIS indicated power daily. This measurement is usually performed automatically by the Digital Data Processing System (DDPS) (EIIS:ID), though it can be performed manually by obtaining values for the required inputs directly from the various plant instruments.

The calorimetric measurement was performed using the DDPS on April 24, 1988, at 0730. Due to system malfunctions, the DDPS was declared out of service (OOS) at 2108, also on April 24. Attempts to return the DDPS to service were initiated immediately. A Plant Work Order (PWO) to troubleshoot and repair the DDPS was generated at approximately 0730 when it became apparent that Instrumentation and Controls (I&C) maintenance help was required due to the fact that the problems appeared to be with the hardware of the DDPS. Until about 1030, the emphasis was placed upon fixing the DDPS and it was believed that a manual calculation would not be needed as the DDPS would be operable in time to perform the calculation prior to the expiration of the surveillance grace period at 1330. Efforts to complete a manual calorimetric measurement were initiated at approximately 1100, but the calculation was not completed until 1358. As the surveillance grace period expired at 1330, the Power Range detectors were declared OOS. Technical Specification (TS) 3.5-1.2 requires that three channels of Nuclear Flux Power Range be operable. With the four Power Range Detectors technically inoperable, though capable of performing their design function, the unit entered TS 3.0.1, which requires that actions shall be initiated within one hour to place the unit in a mode in which TS 3.5-1.2 does not apply (mode 3). At 1358, upon completion of the NIS Power Range detectors' calibration, the detectors were returned to service and the unit exited TS 3.0.1.

CAUSE OF EVENT

The cause of the late surveillance was personnel error. Excessive delays occurred prior to the initiation of the manual calculation as the priority placed on repairing the DDPS was greater than the priority placed on the requirement to support the surveillance manually.

The cause of the DDPS failure was a short in the 120 VAC source, which resulted in excessively high voltage to certain components within the DDPS.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Turkey Point Unit 4	0 5 0 0 0 2 5 1	8 8	0 0 5	0 0	0 3	OF	0 3

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

ANALYSIS OF EVENT

The surveillance was completed less than 30 minutes following the expiration of the grace period. After the expiration of the grace period and prior to the satisfactory completion of the surveillance, though technically OOS, the Power Range detectors were capable of performing their design function. Based on the above, the health and safety of the public were not affected.

CORRECTIVE ACTIONS

- 1) The surveillance was performed manually, and completed at 1358 on April 25, 1988.
- 2) The DDPS was repaired and returned to service.
- 3) The electrical wiring was repaired.
- 4) The group responsible for the performance of this surveillance discussed this event in order to prevent recurrence by assuring that adequate time is allotted to perform the surveillance manually.

ADDITIONAL INFORMATION

Similar occurrences: LER's 250-86-11, 250-86-13, 250-86-20, 250-86-27, 250-87-13, 250-87-28 and 250-88-5 are all missed surveillances, however the root causes for these events were different from the root causes of the present report.



MAY 24 1988

L-88-235
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: 88-05
Date of Event: April 25, 1988
Calibration of Nuclear Instrumentation System Power
Range Detectors Performed Late Due to Personnel Error

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

SDF4A.LER

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