

## ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:8803070281 DOC.DATE: 88/03/03 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 88-002-00:on 880202,containment & control room  
 ventilation isolation occurred.

DISTRIBUTION CODE: IE22D COPIES RECEIVED:LTR 1 ENCL 1 SIZE: 4 <sup>W/8</sup> <sup>ltr.</sup>  
 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

## NOTES:

	RECIPIENT		COPIES			RECIPIENT		COPIES		
	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/ADS7E4		1	0		NRR/DEST/CEB8H7		1	1	
	NRR/DEST/ESB 8D		1	1		NRR/DEST/ICSB7A		1	1	
	NRR/DEST/MEB9H3		1	1		NRR/DEST/MTB 9H		1	1	
	NRR/DEST/PSB8D1		1	1		NRR/DEST/RSB 8E		1	1	
	NRR/DEST/SGB 8D		1	1		NRR/DLPQ/HFB10D		1	1	
	NRR/DLPQ/QAB10A		1	1		NRR/DOEA/EAB11E		1	1	
	NRR/DREP/RAB10A		1	1		NRR/DREP/RPB10A		2	2	
	NRR/DRIS/SIB9A1		1	1		NRR/PMAS/ILRB12		1	1	
	REG FILE 02		1	1		RES TELFORD,J		1	1	
	RES/DE/EIB		1	1		RES/DRPS DIR		1	1	
	RGN2 FILE 01		1	1						
EXTERNAL:	EG&G GROH,M		5	5		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						

TOTAL NUMBER OF COPIES REQUIRED: LTTR 46 ENCL 45



## 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 0 3		
TITLE (4) Containment and Control Room Ventilation Isolation Due to Personnel Error While Performing Modification to Remove a Remote Alarm Function																						
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 Turkey Point Unit 3						DOCKET NUMBER(S) 0 5 0 0 0 2 5 0							
0 2	0 2	8 8	8 8	0 0 2	0 0	0 3	0 3	8 8							0 5 0 0 0							
OPERATING MODE (9) 1		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)																				
POWER LEVEL (10) 11010		20.402(b)				20.405(c)				60.73(a)(2)(iv)				73.71(b)								
		20.405(a)(1)(i)				60.36(c)(1)				60.73(a)(2)(v)				73.71(c)								
		20.405(a)(1)(ii)				60.36(c)(2)				60.73(a)(2)(vi)				OTHER (Specify in Abstract below and in Text, NRC Form 366A)								
		20.405(a)(1)(iii)				60.73(a)(2)(i)				60.73(a)(2)(viii)(A)												
		20.405(a)(1)(iv)				60.73(a)(2)(ii)				60.73(a)(2)(viii)(B)												
		20.405(a)(1)(v)				60.73(a)(2)(iii)				60.73(a)(2)(ix)												
LICENSEE CONTACT FOR THIS LER (12)																						
NAME Gabe Salamon, Compliance Engineer										TELEPHONE NUMBER 31015 2141 61-161516 h												
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																						
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC												
SUPPLEMENTAL REPORT EXPECTED (14)										EXPECTED SUBMISSION DATE (15)					MONTH	DAY	YEAR					
YES (If yes, complete EXPECTED SUBMISSION DATE)										NO												

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

On February 2, 1988, with Unit 4 at 100% power and Unit 3 in Mode 3, the remote alarm and indicator for the Unit 4 Blowdown Effluent Radiation Monitor (R-19) was being removed. The technician located the lead which was required to be removed, and noted that additional leads were also connected to the same terminal. He then attempted to remove the proper lead while maintaining the remaining leads in place. He was unsuccessful. Power to the PRMS channels on Rack 66 is provided serially. Because the Containment Radioactive Particulate and Containment Gaseous Radioactivity Monitors (R-11 and R-12) are also powered from the associated leads, they also lost power. R-11 and R-12 are designed to actuate Containment and Control Room Ventilation Isolation upon a loss of power, and at 1145, these systems isolated. The proper leads were relanded, power was restored to rack R-66, containment/control room ventilation isolation signal was reset, and the control room ventilation system was realigned to normal mode. The cause of the event was inadequate job planning. Inadequate precautions to prevent an inadvertent actuation of R-11 or R-12 were taken prior to the attempt to remove the R-19 remote indicator/alarm lead. The operators verified that no valid alarm condition existed. Power was restored and the remainder of the PRMs on Rack 66 were returned to service.

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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 2	— 0 0	0 2	OF	0 3

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

EVENT

On February 2, 1988, the remote alarm and indicator for the Unit 4 Blowdown Effluent Radiation Monitor (R-19) (EIIS:IL) was being removed in accordance with Change Request Notice E-5079 to Plant Change/Modification 87-061. The remote alarm and indicator were being removed because blowdown radiation monitoring is now performed in the control room, and the remote indicator and alarm have been a source of electrical problems for the Process Radiation Monitoring System (PRMS) racks. The technician notified the Reactor Control Operator that R-19 may trip due to the possible movement of leads connected to the terminals he was working on. The technician then located the lead which was required to be removed, and noted that several additional leads were also connected to the same terminal. He then attempted to remove the proper lead while maintaining the remaining leads in place because he realized that the remaining leads on the terminal supplied power to the entire PRMS rack. He was unsuccessful in holding the remaining leads in contact with the terminal, and not only R-19, but all PRMS monitors in Rack 66 lost power. PRMs R-11 and R-12 are designed to actuate Containment and Control Room Ventilation Isolation upon a loss of power. At 1145, the Control Room Ventilation and the Containment Ventilation System (EIIS:JM) components isolated following the loss of power to R-11 and R-12. These systems isolated as required, with the Control Room Ventilation System switching into the recirculation mode. Work continued, with the proper leads being relanded, power being restored to rack R-66, containment/control room ventilation isolation signal being reset, and the Control Room Ventilation System realigned to normal mode.

CAUSE OF EVENT

The cause of the event was an inadequately planned Plant Work Order (PWO). Inadequate precautions to prevent an inadvertent actuation of R-11 or R-12 were specified in the PWO. The level of detail shown on the drawings did not lead the planner to believe that the leads were all landed on the same side of the terminal board. It was thought that the power leads to the rest of the rack would remain in place while lifting the leads to the R-19 remote indicator. Therefore, no instructions to remove the instrument rack from service prior to conducting work were included on the PWO. Since the PWO did not require a clearance on the entire instrument rack, the journeyman on the job did not stop and notify the Operations Department to obtain a clearance when he realized he might deenergize the entire instrument rack if he could not hold the other leads on the terminal point in place.

## 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 2	— 0 0	0 3	OF	0 3

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

ANALYSIS OF EVENT

Upon loss of power to PRMs R-11 and R-12 the Containment and Control Room Ventilation Systems isolated per design. No radiation releases occurred during this event. Based on the above, the health and safety of the public were not affected.

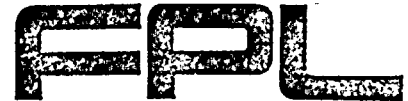
CORRECTIVE ACTIONS

- 1) The operators verified that no valid alarm condition existed.
- 2) The planner involved was counselled to perform a proper field walkdown prior to the issuance of a PWO to be worked when the work involves removing field leads. A walkdown would have resulted in noting that the leads were landed at a common point.
- 3) The technician involved was counselled on the proper means to stop work and notify the Operations Department when he realizes that the work scope may result in the loss of equipment other than what is being worked on.
- 4) The incident was reviewed with Instrumentation and Control Department maintenance planners and technicians to cover the lessons learned and the actions required to prevent recurrence.

ADDITIONAL INFORMATION

Similar occurrences: LERs 250 87-032, 251-86-030, 250-87-005, 250-87-008, 251-87-021, 251-87-023, and 250-87-30 were previous R-11 or R-12 actuations.





MARCH 3 1988

L-88-109  
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: 88-02  
Date of Event: February 2, 1988  
Containment and Control Room Ventilation Isolation  
Due to Personnel Error While Performing  
Modification to Remove a Remote Alarm Function

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,

A handwritten signature in cursive script, appearing to read "W. F. Conway", is written over the typed name.

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

SDF/001.LER

Handwritten initials "TE22" with a vertical line through them, possibly indicating a date or a specific action.