

ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:8808230253 DOC.DATE: 88/07/16 NOTARIZED: NO. DOCKET #
 FACIL:50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251
 AUTH.NAME AUTHOR AFFILIATION
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 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: LER 88-006-00:on 880716,containment ventilation & control
 room ventilation sys isolation due to radiation levels.
 W/8 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 ENCL	RECIPIENT ID CODE/NAME	COPIES 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
ACRS WYLIE	1 1	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	<u>REG FILE</u> 02	1 1
RES TELFORD,J	1 1	RES/DSIR DEPY	1 1
RES/DSIR/EIB	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 0 3															
TITLE (4) Containment Ventilation and Control Room Ventilation System Isolation Due to Containment Radiation Levels Exceeding Containment Radiation Monitor Setpoint																																			
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 7		1 6		8 8		8 8		0 0 6		0 0		0 8		1 5		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) 1 0 0				20.402(b)								20.405(c)								<input checked="" type="checkbox"/> 50.73(a)(2)(iv)								73.71(b)							
				20.405(a)(1)(i)								50.38(c)(1)								<input type="checkbox"/> 50.73(a)(2)(v)								73.71(c)							
				20.405(a)(1)(ii)								50.38(c)(2)								<input type="checkbox"/> 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)								<input type="checkbox"/> 50.73(a)(2)(viii)(A)															
				20.405(a)(1)(iv)								50.73(a)(2)(ii)								<input type="checkbox"/> 50.73(a)(2)(viii)(B)															
				20.405(a)(1)(v)								50.73(a)(2)(iii)								<input type="checkbox"/> 50.73(a)(2)(x)															
LICENSEE CONTACT FOR THIS LER (12)																																			
NAME Gabe Salamon, Compliance Engineer														TELEPHONE NUMBER AREA CODE 3 0 5 2 4 6 - 6 5 6 0																					
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																																			
CAUSE	SYSTEM	COMPONENT	MANUFAC- TURER	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFAC- TURER	REPORTABLE TO NPRDS																									
SUPPLEMENTAL REPORT EXPECTED (14)														EXPECTED SUBMISSION DATE (15)				MONTH	DAY	YEAR															
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)														<input checked="" type="checkbox"/> NO																					

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

On July 16, at 0450, the Reactor Control Operator noticed that R-11 and R-12, (Containment Radioactive Particulate and Gaseous Monitors) for Unit 4 were trending up, and requested the Chemistry Department to take a containment air sample to verify the indications. At 1240, R-11 exceeded its setpoint of 150k counts per minute (cpm) and the Containment Ventilation and Control Room Ventilation System isolated. The cause of the event is the very conservative (low) setpoint for R-11 actuation of Containment Ventilation and Control Room Ventilation isolation combined with a minor leak from the pressurizer spray valve body ("old" PCV-4-455B) which was previously modified to function only as a pressure boundary. The leak was emanating from a point between the valve body and the blind flange which now replaces the bonnet. The latest leak rate calculation performed on August 12, 1988, at 0430, indicated leakage of 0.115 gallons per minute. The Unit was removed from power operation, and a temporary repair was effected to stop the leak. During the next refueling outage the leaking gasket will be inspected by the Maintenance Department to determine what actions can be taken to prevent reoccurrence.

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PDR ADOCK 05000251
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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 6	0 0	0 2	OF	0 3

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

EVENT

On July 16, at 0450, the Reactor Control Operator noted that R-11 and R-12, (Containment Radioactive Particulate and Gaseous Monitors (EIIS:IL)) for Unit 4, were trending up, and requested the Chemistry Department to take a containment air sample to verify the indications. At 0800, the indicated airborne radiation levels were verified. In order to identify the source of the suspected leak, preparations for an at power entry to Unit 4 were initiated at 1030. At 1110, a filter failure alarm for R-11 was received, and it was determined that the detector came in contact with the filter paper. This was corrected. However at 1240, upon R-11 exceeding its setpoint of 150k counts per minute (cpm), the Containment Ventilation (EIIS:JM) and Control Room Ventilation System (EIIS:VI) isolated. On August 11, 1988, at approximately 1300, an entry into Unit 4 containment was made in order to identify the source of the leak. This entry was a follow-up to a previous entry made on August 10, 1988 during which a suspected leak was heard, but not observed, inside the pressurizer cubicle. Inspection of the pressurizer cubicle revealed a leak emanating from the pressurizer spray valve body ("old" PCV-4-455B) which now acts only as a pressure boundary as a result of a previous modification to relocate the pressurizer spray valves. During the modification, the valve internals were removed and the bonnet was replaced with a blind flange. The leak appeared to be emanating from a point between the valve body and the blind flange.

CAUSE OF EVENT

The cause of the event is the very conservative (low) setpoint for R-11 actuation of Containment Ventilation and Control Room Ventilation Isolation. The setpoint is 150k cpm in order to provide early warning of increased radiation levels. The maximum allowable setpoint is approximately 600k cpm. At the present time, the alarm function and the ESF actuation function cannot be separated. Therefore, the ESF actuation occurs before it is required.

A contributing factor to this event was minor leakage from the pressurizer spray valve body ("old" PCV-4-455B) which was previously modified to act only as a pressure boundary. A visual inspection of the containment in the areas which were accessible at power was completed at 1255 on July 16, with no Reactor Coolant System (RCS) (EIIS:AB) leakage or water accumulation being observed. Leak rate calculations were completed at 1258 and 2025 on July 16, and 0435 on July 17. These calculations indicated leakage of .16, .098, and .055 gpm, respectively. A subsequent inspection on August 11, 1988 identified the leak as emanating from a point between the valve body and the blind flange which now replaces the valve bonnet. The latest leak rate calculation performed at 0430, on August 12, 1988, indicated leakage at 0.115 gallons per minute.

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 6	— 0 0	0 3	OF	0 3

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

ANALYSIS OF EVENT

Upon receipt of the isolation signal from R-11, the components of the Containment Ventilation and Control Room Ventilation Systems which were not already in their accident position, actuated as designed. Technical Specification (TS) 3.1.3 requires that any RCS leakage in excess of 1 gpm shall be investigated. Calculations indicated that leak rates consistently remained below Technical Specification limits. The sensed activity in the containment, though in excess of the setpoint for R-11, was below the maximum permissible setpoint for R-11. The maximum permissible setpoint is based on a maximum purge rate without exceeding the offsite boundary dose limits set by 10CFR20. Based on the above, the health and safety of the public were not affected.

CORRECTIVE ACTIONS

- 1) Unit 4 was removed from service and a temporary repair was effected to stop the leak.
- 2) During the next refueling outage, the leaking valve and gasket will be inspected to determine what, if any, action can be taken to prevent reoccurrence.
- 3) A modification to separate the alarm function from the ESF actuation function is currently being evaluated.

ADDITIONAL INFORMATION

Similar occurrences: LER 251-87-25 reported a previous isolation of the Containment and Control Room Ventilation Systems due to radioactivity levels in excess of R-11's setpoint.

FPL

AUGUST 15 1988

L-88-344
10 CFR 50.73

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

Gentlemen:

Re: Turkey Point Units 3 and 4
Docket Nos. 50-250 and 50-251
Reportable Event: 251-88-06
Date of Event: July 16, 1988
Containment Ventilation and Control Room Ventilation
System Isolation Due to Containment Radiation
Levels Exceeding Containment Radiation Monitor Setpoint

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

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

SDF25134.LER

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