

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 7902130151 DOC. DATE: 79/02/09 NOTARIZED: NO DOCKET #  
 FACIL: 50-261 H. B. Robinson Plant, Unit 2, Carolina Power and Light 05000261  
 AUTH. NAME AUTHOR AFFILIATION  
 STARKEY, R.B. Carolina Power & Light Co.  
 RECIP. NAME RECIPIENT AFFILIATION  
 Region 2, Atlanta, Office of the Director

SUBJECT: LER 79-002/03L-0 on 790111: during normal operation, one  
 emergency switchgear room smoke detector rendered inoperable  
 due to excessive amount of dust entering detector head.

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 TITLE: INCIDENT REPORTS

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REPORT SOURCE

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60 61 68 69 74 75 80

DOCKET NUMBER

EVENT DATE

REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | At 1904 on January 11, 1979, during normal plant operation, one of the Emergency  
0 3 | Switchgear Room Smoke Detectors was rendered inoperable due to an excessive amount  
0 4 | of dust in the immediate area of the detector. This resulted in operation in a  
0 5 | degraded mode permitted by Technical Specifications Paragraph 3.14.1.2.a. An hourly  
0 6 | inspection of the zone was conducted during the time the detector was inoperable.  
0 7 | This constitutes a reportable occurrence per Technical Specifications Paragraph  
0 8 | 6.9.2.b.2.

SYSTEM CODE		CAUSE CODE		CAUSE SUBCODE		COMPONENT CODE						COMP. SUBCODE		VALVE SUBCODE					
A	B	D		Z		I	N	S	T	R	U	E		Z					
(11)		(12)	(13)	(14)						(15)	(16)								
EVENT YEAR				SEQUENTIAL REPORT NO.		OCCURRENCE CODE		REPORT TYPE		REVISION NO.									
7	9	—		0	0	2	/	0	3	L	—	0							
(17)		(23)		(24)		(27)		(28)		(32)									
ACTION TAKEN		FUTURE ACTION		EFFECT ON PLANT		SHUTDOWN METHOD		HOURS		ATTACHMENT SUBMITTED		NPRD-4 FORM SUB.		PRIME COMP. SUPPLIER		COMPONENT MANUFACTURER			
A	G	Z		Z		0	0	0	0	Y		N		N		P	4	3	5
(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 | The detector failed due to an excessive amount of dust entering the detector head.

1 1 | This dust was created by construction activities in the area adjacent to the detector.

1 2 | The detector head was replaced and declared operable at 2150 on January 11, 1979.

1 3 | Construction personnel have been cautioned as to the consequences of dust in the

1 4 | immediate area of smoke detectors.

7	8	9											80	
FACILITY STATUS			% POWER			OTHER STATUS			METHOD OF DISCOVERY			DISCOVERY DESCRIPTION		
1	5	E	1	0	0	NA			A	Operator Observation				
2	8	9	10	11	12	13	14	15	16	17	18	19	20	

ACTIVITY CONTENT  
RELEASED OF RELEASE AMOUNT OF ACTIVITY (35)

1 6 Z (33) (34) NA

7 8 9 10 11 44

LOCATION OF RELEASE (36)

NA

45 80

PERSONNEL EXPOSURES									
NUMBER				TYPE	DESCRIPTION				
1	7	0	0	37	Z	38	39	NA	

PERSONNEL INJURIES		NUMBER		DESCRIPTION	
1	8	0	0	0	40 NA

		LOSS OF OR DAMAGE TO FACILITY		
		TYPE	DESCRIPTION	
1	9	Z	NA	(43)

PUBLICITY		ISSUED		DESCRIPTION		NA		NRC USE ONLY	
2	0	N	(44)						

NRC USE ONLY

7902130151

NAME OF PREPARER

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637-0000

Licensee Event Report 79-02  
SERIAL:RSEP/79-115  
January 30, 1979

Supplemental Information For  
Licensee Event Report 79-02

1. Cause Description and Analysis: The smoke detector failed to operate satisfactorily due to an excessive amount of dust entering the ionization chamber of the detector head. The dust was created by construction personnel installing bolt anchors in the concrete ceiling adjacent to the smoke detector. The dust particles caused the detector to initiate a fire alarm signal but would not allow it to reset due to the excessive amount which entered the chamber. An hourly inspection of the Emergency Switchgear Room was conducted by operations personnel during the time the detector was out of service. In addition to this, the area is protected by four heat detectors and an equal smoke detector on the opposite side of the room. Therefore, this failure did not jeopardize the operation of the equipment in this area.
2. Corrective Action The detector head portion of the smoke detector was replaced with an equivalent detector head and the fire alarm signal at the fire indicating unit was cleared and reset. The system was declared operable at 2150 hours on January 11, 1979.
3. Corrective Action To Prevent Further Occurrence: Construction personnel have been cautioned and advised as to the consequences of excessive amounts of dust in the immediate areas of smoke detectors. Additionally, these smoke detectors are tested and cleaned on a semi-annual basis. No further action is deemed necessary.