REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:8010270383 DOC.DATE: 80/10/22 NOTARIZED: NO DOCKET #
FACIL:50-261 H. B. Robinson Plant, Unit 2, Carolina Power and Ligh 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 80-023/03L-0:on 800923,charcoal cells in control room ventilation sys were found w/low charcoal levels.Caused by improper loading procedures.Written procedures for filling cells are being developed.

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TITLE: Incident Reports

NOTES:

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	OR ASSESS BR 35	1	1	POWER SYS BR 36	1	1
	RAD ASSESS BR39	1	1	REACT SYS BR 40	1	1
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	SFTY PROG EVA42	1	1	STRUCT ENG BR44	1	1
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LICENSEE EVENT REPORT

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0 1	LICENSEE CODE: S C H B R 2 (2)	LICENSE NUMBER: 0 0 - 0 0 0 0 0 - 0 0 (3)	LICENSE TYPE: 4 1 1 1 0 (4)	CAT: (5)

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0 1	REPORT SOURCE: L (6)	DOCKET NUMBER: 0 5 0 0 0 2 6 1 (7)	EVENT DATE: 0 9 2 3 8 0 (8)	REPORT DATE: 1 0 2 2 8 0 (9)

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 On September 23, 1980 review of an inspection performed on the control room
0 3 ventilation system (HVE-19) on August 12, 1980 revealed that due to the lack of
0 4 procedures covering their filling, charcoal cells were found with low charcoal
0 5 levels. With low charcoal levels the cells might not have been capable of
0 6 meeting the freon leak test which would have resulted in a degraded mode
0 7 permitted by Technical Specification 3.15.1.a which is reportable pursuant to
0 8 6.9.2.b (2). The reactor was in cold shutdown condition at the time.

	SYSTEM CODE	CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE	COMP. SUBCODE	VALVE SUBCODE
0 9	S G (11)	D (12)	Z (13)	F I L T E R (14)	Z (15)	Z (16)

(17) LER RO REPORT NUMBER	EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
	8 0	—	0 2 3	/	0 3	L	—	0

ACTION TAKEN	FUTURE ACTION	EFFECT ON PLANT	SHUTDOWN METHOD	HOURS (22)	ATTACHMENT SUBMITTED	NPRD-4 FORM SUB.	PRIME COMP. SUPPLIER	COMPONENT MANUFACTURER
X (18)	G (19)	Z (20)	Z (21)	0 0 0 0	Y (23)	N (24)	A (25)	B 0 7 5 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 The low level of charcoal in the cells was apparently due to the improper loading
1 1 with charcoal in 1979 and subsequent settling over a period of approximately 14
1 2 months. The cells were removed from the system, filled with new charcoal while
1 3 being tapped to promote settling, and tested satisfactorily. A written procedure
1 4 on filling the charcoal cells is being developed to address this method of filling.

	FACILITY STATUS	% POWER	OTHER STATUS (30)	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION (32)
1 5	H (28)	0 0 0 (29)	N/A	B (31)	Periodic Test

	ACTIVITY RELEASED	CONTENT OF RELEASE	AMOUNT OF ACTIVITY (35)	LOCATION OF RELEASE (36)
1 6	Z (33)	Z (34)	N/A	N/A

PERSONNEL EXPOSURES

	NUMBER	TYPE	DESCRIPTION (39)
1 7	0 0 0 (37)	Z (38)	N/A

PERSONNEL INJURIES

	NUMBER	DESCRIPTION (41)
1 8	0 0 0 (40)	N/A

LOSS OF OR DAMAGE TO FACILITY (43)

	TYPE	DESCRIPTION
1 9	Z (42)	N/A

PUBLICITY

	ISSUED	DESCRIPTION (45)	NRC USE ONLY
2 0	N (44)	N/A	

8010270383

R. B. Starkey, Jr. (803) 383-4524

CAUSE DESCRIPTION AND ANALYSIS:

On August 12, 1980, prior to performing the inplace leak test (CPL-PT-24.0), on the charcoal cells in the Control Room Emergency Ventilation System (HVE-19), the charcoal cells were removed from the system and inspected for fullness. This inspection was necessitated by the discovery of several cells in other systems (not required to satisfy limiting conditions for operations) which were not properly refilled when the 1980 charcoal samples were taken. However in this case, the other five cells in the system were low as well as the sampled cell. Although the system was not tested it is believed that it would have failed the freon leak test of PT-24.0. This would have resulted in a degraded mode permitted by Technical Specification 3.15.1.a which is reportable pursuant to 6.9.2.b.2. At the time of inspection, the filter system had not been in use since the 1979 refueling outage. At that time the charcoal cells were refurbished with new charcoal and tested for system integrity. The system passed with a 100% removal efficiency.

The apparent cause for the low level of charcoal in the cells was due to settling over a period of 14 months. If this system had been required for operation, the possibility exists that it would not have met its design function.

CORRECTIVE ACTION:

Immediately after discovering the problem, the cells were filled with new charcoal and tapped to promote settling while filling. The charcoal cells were reinstalled into the system and then tested for leak tightness and removal efficiency. The results of the test indicated that the system was 99.90 percent efficient.

CORRECTIVE ACTION TO PREVENT FURTHER OCCURRENCES:

At the time of the refilling, there were no written procedures covering the proper packing of charcoal in filter cells. Although this problem has not occurred before, a written procedure will be developed to address this method of filling. This procedure will be implemented prior to December 31, 1980.