NRC FORM 366
(7-77)

U. S. NUCLEAR REGULATORY COMMISSION

UPDATE REPORT

LICENSEE EVENT REPORT

PREVIOUS REPORT DATE 10/26/81

CONTROL BLOCK: (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1	LICENSEE CODE (9–14): A L B R F 3 (2)
	LICENSE NUMBER (15–25): 0 0 - 0 0 0 0 0 - 0 0 (3)
	LICENSE TYPE (26–30): 4 1 1 1 1 (4)
	CAT (57–58): (5)
CON'T 0 1	REPORT SOURCE (60): L (6)
	DOCKET NUMBER (61–68): 0 5 0 0 0 2 9 6 (7)
	EVENT DATE (69–74): 0 9 2 7 8 1 (8)
	REPORT DATE (75–80): 0 9 2 7 8 2 (9)

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 During normal operation, LPCI MG set 3EA, alternate feed for 480V reactor

0 3 MOV Board 3E, was removed from service to repair its unstable voltage regulator.

0 4 All other MG sets were operable. There was no effect on public health and safety.

0 5 T.S. 3.9.B.11 allows operation for 7 days with one MG set inoperable.

0 6

0 7

0 8

0 9	SYSTEM CODE (9–10)	CAUSE CODE (11)	CAUSE SUBCODE (12)	COMPONENT CODE (13–18)	COMP. SUBCODE (19)	VALVE SUBCODE (20)
	E E (11)	E (12)	A (13)	G E N E R A (14)	D (15)	Z (16)

(17) LER/RO REPORT NUMBER

EVENT YEAR (21–22)	(23)	SEQUENTIAL REPORT NO. (24–26)	(27)	OCCURRENCE CODE (28–29)	REPORT TYPE (30)	(31)	REVISION NO. (32)
8 1	—	0 5 2	/	0 3	X	—	1

ACTION TAKEN (33)	FUTURE ACTION (34)	EFFECT ON PLANT (35)	SHUTDOWN METHOD (36)	HOURS (37–40) (22)	ATTACHMENT SUBMITTED (41)	NPRD-4 FORM SUB. (42)	PRIME COMP. SUPPLIER (43)	COMPONENT MANUFACTURER (44–47)
A (18)	Z (19)	Z (20)	Z (21)	0 0 0 0	Y (23)	Y (24)	L (25)	B 0 9 3 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 Feedback capacitor C8 failed causing the generator voltage to swing about 5 to 10

1 1 volts. Basler Electric type KR4F, model P/N-9-1161-100 voltage regulator was

1 2 replaced. It has been determined that C8 capacitor failure does not make the

1 3 generator inoperable. No additional failures have occurred and no further

1 4 recurrence control is required.

1 5	FACILITY STATUS (9)	% POWER (10–12)	OTHER STATUS (11–44) (30)	METHOD OF DISCOVERY (45)	DISCOVERY DESCRIPTION (46–80) (32)
	E (28)	0 9 7 (29)	NA	B (31)	Routine check

1 6	ACTIVITY RELEASED (9)	CONTENT OF RELEASE (10)	AMOUNT OF ACTIVITY (11–44) (35)	LOCATION OF RELEASE (45–80) (36)
	Z (33)	Z (34)	NA	NA

PERSONNEL EXPOSURES

1 7	NUMBER (9–11)	TYPE (12)	DESCRIPTION (13–80) (39)
	0 0 0 (37)	Z (38)	NA

PERSONNEL INJURIES

1 8	NUMBER (9–11)	DESCRIPTION (12–80) (41)
	0 0 0 (40)	NA

LOSS OF OR DAMAGE TO FACILITY (43)

1 9	TYPE (9)	DESCRIPTION (10–80)
	Z (42)	

8209300055 820927
PDR ADOCK 05000296
S PDR

PUBLICITY

2 0	ISSUED (9)	DESCRIPTION (10–68) (45)	NRC USE ONLY (69–80)
	N (44)	NA	

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Form BF 17
BF 15.2
2/12/82

LER SUPPLEMENTAL INFORMATION

BFRO-50- 296 / 81052 R1 Technical Specification Involved 3.9.B.11

Reported Under Technical Specification 6.7.2.b.(2)* Date Due NRC

Event Narrative:

Unit 1 was in a refueling outage; unit 2 was operating at 99-percent power; unit 3 was operating at 97-percent power. Units 1 and 2 were not affected by this event. During routine check, the generator voltage was observed to swing about 5 to 10 volts from nominal. The 3EA LPCI MG set was removed from service and the Basler Electric Company type KR4F, model P/N-9-1161-100 voltage regulator was replaced. There was no effect on public health and safety. All other unit 3 LPCI MG sets were operable and LPCI MG set 3EA was returned to service within the time limits specified by Technical Specification 3.9.B.11. There had been two previous similar failures which were not reportable because of equipment status at time of the failures. The three defective voltage regulators were returned to Basler Electric Company for failure analysis. Their analysis showed that all three failures were caused by failure of feedback capacitor C8. Basler Electric stated, in a letter dated May 4, 1982, that their records do not reveal recurring failures of this type. During a telecon between Louis Allis, supplier of MG sets, and TVA on December 4, 1981, Louis Allis stated that the failure of capacitor C8 would manifest itself in an output voltage variation most apparent at low- or no-load operation and generator output would not be significantly affected. Thus this type failure would not make the MG set inoperable. Also in the past 11 months there have been no more capacitor failures in the eight regulators now in service. It is concluded from the above evaluations and operating experience that this failure is not a significant generic equipment problem. Therefore, no further recurrence control is required.

* Previous Similar Events:

As described above.

Retention: Period - Lifetime; Responsibility - Document Control Supervisor

*Revision: JRP