

CONTROL BLOCK: [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

0	1	N	C	B	E	P	1	2	0	0	-	0	0	0	0	0	-	0	0	3	4	1	1	1	1	4			5
7	8	14							25										30					57 CAT 58					
		LICENSEE CODE							LICENSE NUMBER											LICENSE TYPE									

REPORT SOURCE: 0 1 7 8 L 6 0 5 0 - 0 3 2 5 7 0 2 1 1 8 2 8 0 3 1 1 8 2 9  
60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

08 | Technical Specifications 3.4.1.1, 3.8.2.3, 6.9.1.9b 80

SYSTEM CODE 0 9		CAUSE CODE E C (11)		CAUSE SUBCODE B (12)		COMPONENT CODE A (13)		COMPONENT CODE B A T T R Y (14)		COMP. SUBCODE Z (15)		VALVE SUBCODE Z (16)	
LER/RO REPORT NUMBER (17)		EVENT YEAR 8 2		SEQUENTIAL REPORT NO. 0 2 3		OCCURRENCE CODE 0 3		REPORT TYPE L		REVISION NO. 0			
ACTION TAKEN B (18)		FUTURE ACTION X (19)		EFFECT ON PLANT Z (20)		SHUTDOWN METHOD Z (21)		HOURS 0 0 0 0 (22)		ATTACHMENT SUBMITTED Y (23)		NPRD-4 FORM SUB. Y (24)	
										PRIME COMP. SUPPLIER A (25)		COMPONENT MANUFACTURER B 3 1 9 (26)	

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 These events occurred due to unsoldered wiring connections in the electrical circuitry

1 1 of DC electrical battery charger 1B-2 amplifier board, Part No. F55-2738-10, which

1 2 resulted in actuation of division 2 RPS and ECCS analog trip units. The amplifier

1 3 board was replaced, with one of Part No. F55-2738-7, and the battery charger, along

1 4 with its affected instrumentation, was returned to normal service.

1		5		F		28		0		1		0		29		NA		30		A		31		Operational Event		32	
FACILITY STATUS								% POWER								OTHER STATUS				METHOD OF DISCOVERY				DISCOVERY DESCRIPTION			

ACTIVITY CONTENT  
RELEASED OF RELEASE

1 6 2 33 3 34 11 NA 44

AMOUNT OF ACTIVITY (35)

LOCATION OF RELEASE (36)

NA 45 80

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

PERSONNEL INJURIES		NUMBER		DESCRIPTION	
1	2	0	0	0	40
		NA			

8		9		11		12	
LOSS OF OR DAMAGE TO FACILITY				(43)			
TYPE		DESCRIPTION					
1	9	Z	(42)	NA			

8 9 10 PUBLICITY (AD) NRC USE ONLY

ISSUED 8204020453 820311

2 0 [N] PDR ADOCK 05000325

7 8 9 S PDR

NA

68 69 80

NAME OF PREPARER M. J. Pastva, Jr.

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LER ATTACHMENT - RO #1-82-23

Facility: BSEP Unit No. 1

Event Date: February 11, 1982

During plant operation, the amplifier board circuitry of DC electrical battery charger 1B-2 experienced a momentary failure which resulted in a high charger output voltage. This high voltage spike caused the Division II analog power supply Topaz inverters to trip. This trip caused an RPS one-half scram signal on channel B along with a B channel PCIS Group 1 isolation signal to occur. Also, all four diesel generators and A and B Core Spray System's pumps started and B reactor recirculation pump tripped. For the duration of this event no ECCS reactor vessel injection occurred. All systems were restored to their required lineups. Approximately four hours later, three similar events occurred within a 20-minute time span.

Following the fourth event, an investigation revealed the caused to be a bad circuit board in the battery charger. The battery charger amplifier board failure was due to manufacturing defects in construction of the board. The board, Power Conversion Products, Inc., part No. F55-2738-10 is part of an equipment upgrade program. The manufacturing defects on the new style board were due to unsoldered wiring connections in the board itself. Due to lack of the newer style replacement board, the original board was reinstalled and the charger was returned to normal service.

As a result of this event, an action plan has been recommended which will help ensure proper functional amplifiers are maintained in plant stock. In addition, a plant modification which will trip the DC battery chargers on high output voltage to prevent spurious actuation of the analog trip units is being engineered for future installation.