U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

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

01 LICENSEE CODE (2)	N C B E P 2
LICENSE NUMBER (3)	0 0 - 0 0 0 0 0 - 0 0
LICENSE TYPE (4)	4 1 1 1 1
CAT (5)	
CON'T 01 REPORT SOURCE (6)	L
DOCKET NUMBER (7)	0 5 0 - 0 3 2 4
EVENT DATE (8)	0 1 1 7 8 2
REPORT DATE (9)	0 2 1 5 8 2

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 During a reactor startup, IRM "E" indicated downscale when on range 9. IRM "C" had
03 previously been declared inoperable due to erratic indication. Following the
04 failure of IRM "E", a half scram was inserted in the "A" channel of RPS. This
05 event did not affect the health and safety of the public.
06 Technical Specifications 3.3.1, 6.9.1.9b
07
08

09	
SYSTEM CODE (11)	I A
CAUSE CODE (12)	X
CAUSE SUBCODE (13)	Z
COMPONENT CODE (14)	I N S T R U
COMP. SUBCODE (15)	E
VALVE SUBCODE (16)	Z

LER/RO REPORT NUMBER (17)	
EVENT YEAR	8 2
	—
SEQUENTIAL REPORT NO.	0 1 5
	/
OCCURRENCE CODE	0 3
REPORT TYPE	L
	—
REVISION NO.	0

ACTION TAKEN (18)	FUTURE ACTION (19)	EFFECT ON PLANT (20)	SHUTDOWN METHOD (21)	HOURS (22)	ATTACHMENT SUBMITTED (23)	NPRD-4 FORM SUB. (24)	PRIME COMP. SUPPLIER (25)	COMPONENT MANUFACTURER (26)
B	X	Z	Z	0 0 0	Y	Y	N	G 0 8 0

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 Partial grounding of the detector output signal of IRM "E" due to a tear in the
11 detector signal cable caused the monitor to indicate downscale. A burned-out detector
12 in IRM "C" had caused its erratic indications. The defective detector was replaced
13 and IRM "C", Model No. 194X672G8, was calibrated and returned to service. The signal
14 cable tear was repaired and IRM "E" was calibrated and returned to service.

15	FACILITY STATUS (28)	% POWER (29)	OTHER STATUS (30)	METHOD OF DISCOVERY (31)	DISCOVERY DESCRIPTION (32)
	C	0 0 2	NA	A	Operational Event

16	ACTIVITY RELEASED (33)	CONTENT OF RELEASE (34)	AMOUNT OF ACTIVITY (35)	LOCATION OF RELEASE (36)
	Z	Z	NA	NA

PERSONNEL EXPOSURES

17	NUMBER (37)	TYPE (38)	DESCRIPTION (39)
	0 0 0	Z	NA

PERSONNEL INJURIES

18	NUMBER (40)	DESCRIPTION (41)
	0 0 0	NA

LOSS OF OR DAMAGE TO FACILITY (43)

19	TYPE (42)	DESCRIPTION
	Z	NA

PUBLICITY

20	ISSUED (44)	DESCRIPTION (45)	NRC USE ONLY
	N	NA	

8203080318 820215
PDR ADOCK 05000324
S PDR

NAME OF PREPARER: J. Pastva, Jr. PHONE: (919) 457-9521

LER ATTACHMENT - RO # 2-82-15

Facility: BSEP Unit No. 2 Event Date: January 17, 1982

During a reactor startup, it was discovered that IRM "E" was inoperable, as the instrument indicated downscale when on range No. 9. At the time of this discovery IRM "C" was also indicating downscale and had been declared inoperable earlier the same day when the reactor was shut down. Following the IRM "E" inoperability discovery, an "A" RPS manual scram was initiated in accordance with technical specifications. At the time of this event IRM "A" and "G" were operable and showing expected indications.

The investigation of the IRM "E" indication problem revealed that the downscale indications resulted from a partial grounding of the monitor's detector output signal. This occurred due to drywell moisture intrusion into the detector signal cable through a tear in the cable insulation. At this time it has not been determined when or how the tear occurred. The tear was repaired and the IRM was calibrated and returned to service.

The investigation of the IRM "C" indication problem determined that the monitor detector was defective, attributed to detector burnout. The detector was replaced, the monitor instrumentation was calibrated, the IRM was returned to service and the manually initiated "A" RPS one-half scram was then reset.