NRC FORM 366
(7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

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

Field	Value
0 1 Licensee Code (2)	NCBEP1
License Number (3)	00-00000-00
License Type (4)	41111
CAT (5)	
CON'T 0 1 Report Source (6)	L
Docket Number (7)	050-0325
Event Date (8)	011483
Report Date (9)	

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 During the ongoing Unit No. 1 refueling outage, required ASME Section XI laboratory
0 3 testing of SRVs revealed six of the 11 valves opened at higher than specified set-
0 4 points. These valves, 1-B21-F013B, D, E, F, K, and L, which opened at pressures
0 5 ranging from 1126 to 1158 psig, are of the two stage pilot operated design. This
0 6 event did not affect the health and safety of the public.
0 7
0 8 Technical Specifications 3.4.2, 6.9.1.9b

0 9	System Code (11)	Cause Code (12)	Cause Subcode (13)	Component Code (14)	Comp. Subcode (15)	Valve Subcode (16)
	SH	E	B	VALBEX	F	B

(17) LER/RO Report Number	Event Year		Sequential Report No.		Occurrence Code	Report Type		Revision No.
	83	—	002	/	03	L	—	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)
C	X	Z	Z	0000	Y	Y	N	T020

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 Corrosion buildup on the pilot disc and seat surfaces of each subject valve prevented
1 1 them from opening at their specified setpoints. The valve vendor will inspect, repair,
1 2 and adjust each subject valve to set pressure requirements and the valves, Model No.
1 3 7567F, will be returned to service. Following the completion of qualification testing
1 4 by the valve vendor appropriate future correction action to the event will be taken.

1 5	Facility Status (28)	% Power (29)	Other Status (30)	Method of Discovery (31)	Discovery Description (32)
	H	000	NA	B	Periodic Testing

1 6	Activity Released (33)	Content of Release (34)	Amount of Activity (35)	Location of Release (36)
	Z	Z	NA	NA

1 7 Personnel Exposures	Number (37)	Type (38)	Description (39)
	000	Z	NA

1 8 Personnel Injuries	Number (40)	Description (41)
	000	NA

1 9 Loss of or Damage to Facility (43)	Type (42)	Description
	Z	NA

2 0 Publicity	Issued (44)	Description (45)
	N	

NRC USE ONLY

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LER ATTACHMENT - RO #1-83-2

Facility: BSEP Unit No. 1 Event Date: January 14, 1983

ASME Section XI laboratory testing of Unit No. 1 SRVs revealed six of the 11 valves, Target Rock Corporation Model No. 7567F, opened in excess of their individual set pressures.

Valve No.	Set Pressure (psig)	Opening Pressure (psig as tested
1-B21-F013B	1125	1150
1-B21-F013D	1105	1119
1-B21-F013E	1105	1157
1-B21-F013F	1095	1126
1-B21-F013K	1115	1134
1-B21-F013L	1125	1158

Corrosion buildup on the pilot disc and seat of each subject valve caused binding between the two components which prevented the subject valves from opening at their specified setpoints. A contributory factor to this problem also results from the valves' pilot rod and guide areas being constructed of stellite No. 6 which, used together, possess a high coefficient of friction. This phenomenon has been observed with two-stage SRVs in other operating plants which have not been cycled for extended periods of time (in excess of three months).

These valves will be repaired by the vendor and reinstalled and returned to service. The BWR owners group is currently investigating problems encountered with two-stage SRVs. Vendor proposed solutions to these problems, which involve replacing the pilot disc material with one less susceptible to corrosion and replacement of the pilot rod bushing material with a carbon type bushing, are endorsed by the BWR owner's group. The proposed solutions to these problems are currently undergoing qualification testing by the vendor. Following the satisfactory completion of this testing, a decision will then be made as to the implementation of these proposed solutions with respect to the SRVs of both Unit Nos. 1 and 2.