NRC FORM 366 (7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

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

Line	Field	Value
01	Licensee Code (2)	N C B E P 2
01	License Number (3)	0 0 - 0 0 0 0 0 - 0 0
01	License Type (4)	4 1 1 1 1
01	CAT (5)	
01 (CON'T)	Report Source (6)	L
01	Docket Number (7)	0 5 0 - 0 3 2 4
01	Event Date (8)	1 0 0 3 8 2
01	Report Date (9)	1 0 2 2 8 2

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 Routine reactor coolant analysis during a reactor startup revealed reactor coolant

03 conductivity was > 2.0 μmho/cm^2. Following startup and during load changes, reactor

04 coolant conductivity remained > 2.0 μmho/cm^2 for 26 hours and 8 minutes with a

05 maximum recorded value of 5.28 μmho/cm^2. This event did not affect the health and

06 safety of the public.

07

08 Technical Specifications 3.4.4, 6.9.1.9b

Line	Field	Value
09	System Code (11)	C G
09	Cause Code (12)	X
09	Cause Subcode (13)	X
09	Component Code (14)	F I L T E R
09	Comp. Subcode (15)	Z
09	Valve Subcode (16)	Z
(17) LER/RO Report Number	Event Year	8 2
	(23)	—
	Sequential Report No.	1 1 3
	(27)	/
	Occurrence Code	0 3
	Report Type	L
	(31)	—
	Revision No.	0
	Action Taken (18)	X
	Future Action (19)	X
	Effect on Plant (20)	Z
	Shutdown Method (21)	Z
	Hours (22)	0 0 0 0
	Attachment Submitted (23)	Y
	NPRD-4 Form Sub. (24)	Y
	Prime Comp. Supplier (25)	N
	Component Manufacturer (26)	G 0 8 0

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 The high conductivity occurred due to a breakdown of RWCU System resins, which

11 accumulated in the reactor due to a RWCU filter breakthrough. The resins were

12 allowed to decompose at vessel temperature and reactor conductivity was reduced

13 to < 2 μmho/cm^2. No further action regarding this event is required.

14

Line	Field	Value
15	Facility Status (28)	C
15	% Power (29)	0 0 0
15	Other Status (30)	NA
15	Method of Discovery (31)	A
15	Discovery Description (32)	Routine Coolant Analysis
16	Activity Released (33)	Z
16	Content of Release (34)	Z
16	Amount of Activity (35)	NA
16	Location of Release (36)	NA
17	Personnel Exposures Number (37)	0 0 0
17	Type (38)	Z
17	Description (39)	NA
18	Personnel Injuries Number (40)	0 0 0
18	Description (41)	NA
19	Loss of or Damage to Facility Type (42)	Z
19	Description (43)	NA
20	Publicity Issued (44)	N
20	Description (45)	NA

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NRC USE ONLY

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LER ATTACHMENT - RO #2-82-113

Facility: BSEP Unit No. 2 Event Date: October 3, 1982

This event occurred when ion exchange resins, which had accumulated in the reactor due to a RWCU System filter breakthrough, decomposed at reactor temperature into ionic compounds causing the reactor coolant conductivity to exceed specifications. The RWCU filter breakthrough occurred when the B RWCU filter influent valve, 2-G31-Z002-6B, momentarily opened and reclosed while placing the filter in service, causing a pressure surge across the filter septums which displaced the filter precoat resin from the filter septums. The momentary cycling of the B filter influent valve occurred due to a malfunctioning of RWCU System control relay 12B. The RWCU System was removed from service to eliminate the source of the resins. These resins were then allowed to decompose at reactor temperature into inoffensive, undetectable, nonionic substances and measured reactor conductivity returned to within specifications. A Work Request and Authorization has been submitted for the repair of the RWCU control relay 12B.