NRC FORM 366 (7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

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

01	LICENSEE CODE (2)	A L B R F 1
	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 0 2 5 9
	EVENT DATE (8)	0 1 3 1 8 1
	REPORT DATE (9)	0 2 0 9 8 1

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 During steady state operation, pH of the reservoir near the plant was found to be

03 in excess of the allowable discharge limit of 9.0 pH. Monitoring was in progress

04 to support the routine release of spent demineralizer regenerants. Technical

05 Specification: ETS 2.2.1. There was no danger to the public. No previous

06 occurrences.

07

08

	SYSTEM CODE (11)	CAUSE CODE (12)	CAUSE SUBCODE (13)	COMPONENT CODE (14)	COMP. SUBCODE (15)	VALVE SUBCODE (16)
09	P C	X	Z	Z Z Z Z Z Z	Z	Z

LER/RO REPORT NUMBER (17)	EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
	8 1	—	0 0 5	/	0 4	T	—	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)
X	X	Z	Z	0 0 0 0	Y	N	Z	Z 9 9 9

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 The cause of the excess pH value is unknown. However, it appears to be caused by

11 an upstream source. The discharge of spent regenerants was stopped. A temporary

12 program was established to monitor the reservoir pH. No recurrence control required.

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14

	FACILITY STATUS (28)	% POWER (29)	OTHER STATUS (30)	METHOD OF DISCOVERY (31)	DISCOVERY DESCRIPTION (32)
15	E	0 9 8	NA	B	Radiochemical personnel

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

PERSONNEL EXPOSURES

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

PERSONNEL INJURIES

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

LOSS OF OR DAMAGE TO FACILITY

	TYPE (42)	DESCRIPTION (43)
19	Z	NA

PUBLICITY

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

NAME OF PREPARER ______________ PHONE: ______________

8102230 653

Tennessee Valley Authority
Browns Ferry Nuclear Plant

Form BF-17
BF 17.2
1/10/79

LER SUPPLEMENTAL INFORMATION

BFRO-50- 259 / 8105 Technical Specification Involved ETS 2.2.1

Reported Under Technical Specification 5.6.3.b (App B)

Date of Occurrence 1/31/81 Time of Occurrence 1645 Unit 1, 2, and 3

Identification and Description of Occurrence:

pH of the reservoir near Browns Ferry Nuclear Plant was found to be in excess of the allowable discharge limit of 9.0. pH monitoring was being conducted at the time to support the discharge of spent demineralizer regenerants.

Conditions Prior to Occurrence:

Unit 1 at 1078 MWe.

Unit 2 at 960 MWe.

Unit 3 at 965 MWe.

Action specified in the Technical Specification Surveillance Requirements met due to inoperable equipment. Describe.

None

Apparent Cause of Occurrence:

Unknown. The high pH appears to have been caused by an upstream source.

Analysis of Occurrence:

There was no damage to plant equipment. There was no activity release, no personnel exposure or injury and no danger to the health or safety of the public.

Corrective Action:

The discharge of the demineralizer regenerants was stopped. Raw water samples from around the plant were taken and analyzed for pH.

Failure Data:

None

*Distribution: Period - Lifetime; Responsibility - Administrative Supervisor

*Revision:

SUPPLEMENTAL WHEELER RESERVOIR pH DATA

DATE	TIME	pH (1)	
12/2/80	-	7.1	
12/9/80	-	7.7	
12/16/80	-	7.2	
12/27/80	-	7.2	
12/30/80	-	7.1	
1/7/81	-	7.4	
1/13/81	-	7.3	
1/23/81	-	6.9	
1/29/81	-	8.5	
1/30/81	0045	8.7	Biothermal stream (2)
1/30/81	0845	8.9	Biothermal stream (2)
1/31/81	0250	9.0	Biothermal stream (2)
1/31/81	1645	9.4	Biothermal stream (2)
1/31/81	1745	9.3	Biothermal stream (2)
1/31/81	2120	9.1	* upstream from plant
2/1/81	2245	9.0	
2/1/81	2310	8.9	
2/1/81	0800	9.0	
2/1/81	0900	8.7	
2/1/81	1145	8.7	
2/1/81	1145	9.0	*intake bay
2/1/81	1145	8.8	* down stream from plant
2/1/81	1545	8.8	
2/1/81	2015	8.5	
2/1/81	2330	8.5	
2/2/81	0330	8.2	
2/2/81	0850	8.3	
2/2/81	1250	8.2	
2/2/81	1510	8.1	
2/2/81	2045	8.1	
2/2/81	2310	8.2	
2/3/81	0420	8.1	
2/3/81	0800	8.3	
2/3/81	1300	8.3	

SUPPLEMENTAL WHEELER RESERVOIR pH DATA

DATE	TIME	pH
2/3/81	1510	8.3
2/3/81	2130	8.1
2/4/81	0130	8.0

(1) Unless otherwise noted, sample obtained from raw water systems within plant.

(2) Biothermal stream analyzed during release of spent regenerants. Source of the stream is raw water cycled through biothermal research facility.