NRC FORM 366 (7-77) — U.S. NUCLEAR REGULATORY COMMISSION

79-024/01X-1 Update Report - previous report date 12/28/79

LICENSEE EVENT REPORT

(CAR 1251)

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

0 1	Licensee Code: N Y R E G 1 (2)	License Number: 0 0 - 0 0 0 0 0 - 0 0 (3)	License Type: 4 1 1 1 1 (4)	CAT: (5)

CON'T

0 1	Report Source: L (6)	Docket Number: 0 5 0 0 0 2 4 4 (7)	Event Date: 1 2 1 7 7 9 (8)	Report Date: (9)

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 Upon routine analysis of samples of the boric acid storage tanks, concentrations were
03 found to be below the minimum 12% boric acid, at 10.2% and 10.1%. (T.S. 3.2.3.c).
04 This event is similar to those reported in LER's 79-009 and 79-010. Reactor power
05 reduction procedures were implemented until required concentrations were achieved.
06
07
08

0 9	System Code	Cause Code	Cause Subcode	Component Code	Comp. Subcode	Valve Subcode
	P C (11)	E (12)	X (13)	V A L V E X (14)	E (15)	D (16)

(17) LER/RO Report Number	Event Year		Sequential Report No.		Occurrence Code	Report Type		Revision No.
	7 9	—	0 2 4	/	0 1	X	—	1

Action Taken	Future Action	Effect on Plant	Shutdown Method	Hours (22)	Attachment Submitted	NPRD-4 Form Sub.	Prime Comp. Supplier	Component Manufacturer
X (18)	B (19)	B (20)	A (21)	0 0 4 7	Y (23)	Y (24)	A (25)	A 2 0 0 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 Backflow of refueling water through BA tank outlet MOV's. Initially manual valve in
11 BA supply line was closed, sample frequency increased to every 12 hours. Further
12 investigation showed problem was eliminated when BA tank outlet MOV's 826 B & D were
13 closed and 826 A & C were opened. Inspection/maintenance of these valves (Aloyco
14 Inc. 8" 150 lb ss bolted bonnet gate) planned for annual refueling maintenance shutdown.

1 5	Facility Status	% Power	Other Status (30)	Method of Discovery	Discovery Description (32)
	F (28)	0 0 3 (29)	NA	B (31)	Sample Analysis

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

PERSONNEL EXPOSURES

1 7	Number	Type	Description (39)
	0 0 0 (37)	Z (38)	NA

PERSONNEL INJURIES

1 8	Number	Description (41)
	0 0 0 (40)	NA

LOSS OF OR DAMAGE TO FACILITY (43)

1 9	Type	Description
	Z (42)	NA

8002190 506

PUBLICITY

2 0	Issued	Description (45)	NRC USE ONLY
	N (44)	NA	

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GPO 917-926

Attachment to LER 79-024/01X-1

Rochester Gas And Electric Corporation
R.E. Ginna Nuclear Power Plant, Unit No. 1
Docket No. 50-244

On December 17, 1979, at approximately 1340 hours the Shift Supervisor was notified of the chemical analysis which indicated that both the "A" and the "B" boric acid storage tanks contained 10.2% and 10.1% wt-% boric acid solution respectively. An orderly power reduction was completed at 1405 hours and batching operations were initiated to restore the tanks to the required specifications. On December 19 at approximately 1015 hours the tanks were brought within specifications. To ensure proper sampling and recirculation without solution stratification additional samples were taken at several elevations inside the tanks. Analysis of all samples showed proper correlation with the normal samples. In addition, reagents used in the sample analysis were checked and found to be proper.

To check for the possibility of back flow of reactor makeup water from the reactor makeup water storage tank through the blender and the blender boric acid supply check valve, a manual valve in the boric acid supply line was closed. This was the same action which was taken for the event reported as LER 79-010. The tank sampling frequency was increased to once every twelve hours. Replacement of the suspect check valve with a more suitable style check valve and/or changing the logic of the automatic flow control valve to allow it to remain closed when not blending is currently being reviewed by the Engineering Department (EWR 2460). It was decided that until such time as a new check valve can be procured and installed and/or the logic change for the flow control valve is provided, the manual valve would remain closed, except during blending.

It was soon determined that dilution was continuing, and further investigation indicated leakage from the RWST through one of the closed boric acid tank outlet MOVs 826A or 826C. The outlet MOVs 826B and D were closed and the MOVs 826A & C were opened. This was found to stabilize tank concentrations and indicated that the leakage had stopped. At this point it was no longer necessary to keep the boric acid supply manual valve open, and it has been opened. Sampling frequency has been decreased to once per day. Inspection and any needed maintenance of the boric acid tank outlet MOVs is planned for the 1980 Annual Refueling Maintenance Shutdown.