NRC FORM 366 (7-77)	80-006/017-0	U. S. NUCLEAR REGULATORY COMMISSION
(1994) and a	CLICENSEE EVENT REPORT	(CAR 1267)
CONTROL BLOCK:	(PLEASE PRINT OR 1	TYPE ALL REQUIRED INFORMATION)
0 1 N Y R E G 1 2 0 0 7 8 9 LICENSEE CODE 14 15		3) <u>4 1 1 1 1 1 4</u> 5 26 LICENSE TYPE 30 57 CAT 58
$ \begin{array}{c} \text{CON'T} \\ \hline 0 \\ 7 \\ 7 \\ 8 \end{array} \begin{array}{c} \text{REPORT} \\ \text{SOURCE} \\ \hline 60 \\ 61 \\ \hline 0 \\ 61 \\ \hline 0 \\ 61 \\ \hline 0 \\ 0 \\ 0 \\ CKE \\ \hline \end{array} $	0 2 4 4 7 0 7 1 1 8 T NUMBER 68 69 EVENT DATE	0 8 0 7 2 4 8 0 9 74 75 REPORT DATE 80
0 2 During routine analysis o	f samples from boric acid store	age tanks concentration showed
0 3   11.7% and 11.8% boric a	cid. (T.S. 3.2.3.c) Reactor p	power reduction was started, and
04   tank contents enriched to	12%. With tanks isolated, as	nalysis on 7/14/80 again indi-
0 5 cated low concentration.	Tanks were again enriched.	After titrant was changed, con-
0 6   centration was found grea	ter than 13%. Power reduction	n was started, and proper con-
0 7   centration was restored.		·
$ \begin{array}{c}  SYSTEM \\ CODE \\ CODE \\ \hline O 9 \\ 7 \\ 8 \end{array} $ $ \begin{array}{c}  SYSTEM \\ CODE \\ \hline O 0 \\ 9 \\ \hline 10 \end{array} $ $ \begin{array}{c}  CAUSE \\ CODE \\ \hline O DE \\ \hline \hline O DE \\ \hline \hline \hline O DE \\ \hline \hline \hline O DE \\ \hline \hline \hline \hline O DE \\ \hline \hline$	$\begin{array}{c} \begin{array}{c} \begin{array}{c} CAUSE \\ SUBCODE \end{array} \\ \hline \\ \begin{array}{c} \\ \\ \end{array} \end{array} \begin{array}{c} \\ \\ \end{array} \begin{array}{c} \\ \\ \end{array} \begin{array}{c} \\ \\ \end{array} \end{array} \begin{array}{c} \\ \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \\ \end{array} \begin{array}{c} \\ \\ \end{array} \begin{array}{c} \\ \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \end{array} \end{array} \end{array} \begin{array}{c} \\ \end{array} \end{array} \end{array} \end{array} \end{array} \begin{array}{c} \\ \end{array} $	$(4) \begin{array}{c} COMP. \\ SUBCODE \\ 19 \\ 19 \\ 19 \\ 20 \\ 10 \\ 20 \\ 10 \\ 20 \\ 10 \\ 20 \\ 10 \\ 20 \\ 10 \\ 20 \\ 10 \\ 1$
ACTION FUTURE EFFECT SHUTC TAKEN ACTION ON PLANT MET	24 26 27 28 3 NOWN HOURS (22) SUBMITTED	29 30 31 32 NPRD-4 PRIME COMP. COMPONENT FORM SUB SUPPLIER MANUE ACTUBER
		$ \underbrace{[N]_{42}}_{42} \underbrace{[Z]_{25}}_{43} \underbrace{[Z]_{9}_{9}_{9}_{9}_{9}_{47}_{47} $
CAUSE DESCRIPTION AND CORRECTIVE	EACTIONS (27) JaOH titrant from CO2 was sat	urated with water, some of
which dropped into titrant	. Reagent check now being do	one in conjunction with tank
[112]   sampling. Consolidation	incorporating all procedures w	vhich respond to exceeding
action limits being writte	n. Sample frequencies to be in over to be in effect by 10/80.	ncreased during certain opera- Mechanical modifications to
decrease dilution probabi	lity being considered. Tech.	Spec. change to allow up to
7 8 9 FACILITY STATUS % POWER OTH	ER STATUS 3 METHOD OF	BO
$\begin{bmatrix} 1 & 5 \\ 7 & 8 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9 \\ 10 \\ 10 \\ 10 $	NA B 31 Chemic	cal analysis 80
$\begin{array}{c c} \hline \\ \hline $	ACTIVITY 35	LOCATION OF RELEASE 36
7 8 9 10 11 PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION	44 45	80
1         7         0         0         0         37         Z         38         NA           7         8         9         11         12         13         13		
PERSONNEL INJURIES NUMBER DESCRIPTION (41) 1 8 0 0 0 (40) NA		1
7 8 9 11 12 LOSS OF OR DAMAGE TO FACILITY (43) TYPE DESCRIPTION		. 80
1 9 Z 42 NA	•	
ISSUED DESCRIPTION (45)		NRC USE ONLY
<sup>2</sup> .8 0 0 7 2 8 0 639	. Filkins	68 69 80 5 PHONE: 315/524-4446, ext. 219

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Attachment to LER 80 56/01T-0 Rochester Gas and Electric Corporation R. E. Ginna Nuclear Power Plant, Unit No. 1 Docket No. 50-244

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With the plant operating at full power the normal samples were taken of the boric acid storage tanks at 0815 hours on July 11, 1980. The samples indicated the concentrations had dropped to 11.7% and 11.8%. The shift supervisor indicated there had been operations performed which could have led to tank dilution. It was assumed at this time that the samples were correct.

A power reduction was commenced and the normal steps taken to isolate the tanks and increase the boric acid concentration. The concentrations were brought up to greater than 12.0% by 1540 hours. Samples were taken at 2 hour intervals during the next several days.

On July 14, 1980 the tanks again appeared to have been diluted even with all possible sources of dilution isolated. One tank was less than 12.0% and it was brought into specification within 3 hours. At 0900 hours the titrant was changed, and it was found that the old titrant was of incorrect concentration. It was determined that the tank concentrations then exceeded 13%. The same steps as mentioned above were taken and the boric acid concentrations were brought into specification by 1615 hours.

The source of the concentration change in the titrant was the Ascarite which is used to protect the NaOH titrant from  $CO_2$ . Ascarite is made with a caustic material, and it had become saturated with moisture. Hydroxide was dissolved in the liquid, which dropped into the titrant reservoir, contaminating the titrant. This gave the false indication that the boric acid concentration in the tanks was low. To insure this type of contamination does not reoccur the Ascarite tube is being placed lower than the titrant reservoir. The laboratory analysis procedure will be changed to include a QC check of the titrant each time the normal storage tank samples are taken. Procedures used in response to exceeding concentration administrative limits will be drawn together under a new comprehensive procedure which will include the sequence of sampling, QC, data evaluation and corrective actions.

There are certain operations that increase the probability of dilution of the tank contents. Procedures governing these operations will be changed to require notifying the laboratory to increase sampling frequency following these operations.

Mechanical modifications to further decrease the possibility of tank dilutions are being investigated.

Consideration is being given towards applying for a Technical Specification change to allow the maximum boric acid concentration of 13.5% since the present Technical Specification minimum temperature of 145°F will provide solubility of boric acid to a concentration of 14%.

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