NRC FO	RM 206	U.S. NUCLEAR REGULATORY COMMISSION
	LICENSE	E EVENT REPORT
	CONTROL BLOCK:	PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION
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	EVENT DESCRIPTION AND PROBABLE CONSEQUENCES	4 7 1 0 2 6 7 9 3 1 1 0 6 7 9 9 68 69 EVENT DATE 74 75 REPORT DATE 80
02	While evaluating piping restraints i	in accordance with NRC IE Bulletin 79-02, Standby
03	Gas Treatment Systems A and B were d	declared inoperable at 3:00 PM on October 26, 1979.
04	Analyses indicated that piping restr	raints 1/2-7504-164 and 165 had a safety factor
0 5	of less than 2. The Standby Gas Tre	eatment Systems were at all times functional and
06	the requirements of Technical Specif	fication 3.7.B.1.b were met.
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08	9	 80
	$\begin{array}{c} \begin{array}{c} \text{SYSTEM} \\ \text{CODE} \\ \text{S} \\ \begin{array}{c} \text{C} \\ \text{O} \\ \end{array} \end{array} \begin{array}{c} \begin{array}{c} \text{CAUSE} \\ \text{CODE} \\ \end{array} \end{array} \begin{array}{c} \begin{array}{c} \text{CAUSE} \\ \text{SUBCODE} \\ \end{array} \begin{array}{c} \text{SUBCODE} \\ \text{SUBCODE} \\ \end{array} \begin{array}{c} \begin{array}{c} \text{CAUSE} \\ \text{SUBCODE} \\ \end{array} \end{array} \begin{array}{c} \begin{array}{c} \text{CAUSE} \\ \text{SUBCODE} \\ \end{array} \end{array} \begin{array}{c} \begin{array}{c} \text{CAUSE} \\ \text{SUBCODE} \\ \end{array} \end{array} \begin{array}{c} \begin{array}{c} \text{CAUSE} \\ \text{SUBCODE} \end{array} \end{array} \begin{array}{c} \begin{array}{c} \text{CAUSE} \\ \text{SUBCODE} \end{array} \end{array}$	COMPONENT CODE SUBCO
10	· · · · · · · · · · · · · · · · · · ·	aints 1/2-7504-164 and 165 found the design
11	L safety factors to be less conservati	ive than originally analyzed. The restraints were
12	modified to a safety factor of great	ter than 4, and at 6:51 AM, October 27, 1979,
13	the Standby Gas Treatment systems we	ere declared operable.
14	L	
15	FACILITY STATUS S POWER OTHER STATUS 30 E 28 0 9 8 29 NA 44	METHOD OF DISCOVERY DESCRIPTION (32)
	ELEASED OF RELEASE AMOUNT OF ACTIVITY 35	
17	PERSONNEL EXPOSURES NUMBER 0 0 0 0 37 Z 38 DESCRIPTION 39	NA 1354 302
		NA DOOD ORIGINAL
19	Z	
20	PUBLICITY SSNED DESCRIPTION (5)	NA 7911190 +09 NRC USE ONLY
/ 8	J. Swales	PHONE

- 1. LER NUMBER: LER/RO 79-32/01T-0
- 11. LICENSEE NAME: Commonwealth Edison Company Quad-Cities Nuclear Power Station
- III. FACILITY NAME: Unit One
- IV. DOCKET NUMBER: 050-254

V. EVENT DESCRIPTION:

While inspecting piping restraints in accordance with NRC IE Bulletin 79-02, Standby Gas Treatment Systems (SBGTS) A and B were declared inoperable at 3:00 PM, October 26, 1979. Analyses indicated that piping restraints 1/2-7504-164 and 165 had a safety factor of less than 2. A complete failure of these restraints during a seismic event would have resulted in the stress in pipe 1/2-7504-24" exceeding 1/2 of the ultimate stress. Restraint 1/2-7504-164 had been repaired before the SBGTS were declared inoperable and repairs had also begun on restraint 1/2-7504-165. At the time the SBGTS were declared inoperable, both units were governed by the Technical Specification 3.7.8.1.b. limiting condition for operation.

VI. PROBABLE CONSEQUENCES OF THE OCCURRENCE:

All piping and equipment on the SBGTS were operable at the time of this occurrence. In addition, primary and secondary containment were in effect. Restraints 1/2-7504-164 and 165 did have a factor of safety greater than 1 and therefore should not have failed in the event of a design basis earthquake. Therefore safe plant operation was not affected by this occurrence.

VII. CAUSE:

The cause of this occurrence was a design deficiency. Analyses of restraints 1/2-7504-164 and 165 in accordance with NRC IE Bulletin 70-02, found the design factor of safety to be less conservative than originally analyzed.

VIII. CORRECTIVE ACTION:

Restraints 1/2-7504-164 and 165 were modified such that their factors of safety were greater than 4 by 6:51 AM, October 27, 1979. At this time the SBGTS were declared operable.

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