



- I. LER NUMBER: LER/RO 79-32/01T-0
- II. 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.B.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.

1354 303