



Log # TXX-93014  
File # 10110  
# 908.3  
Ref. # 10CFR50.55(e)

**TU ELECTRIC**

January 8, 1993

William J. Cahill, Jr.  
Group Vice President

U. S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555

SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION (CPSES)  
DOCKET NOS. 50-445 AND 50-446  
DEVIATIONS IN ELGAR INVERTERS  
SDAR: CP-92-004 (SUPPLEMENTAL REPORT)

Gentlemen:

On May 13, 1992, via facsimile, TU Electric notified the NRC of numerous manufacturing deficiencies in printed circuit boards (PCBs) for the Unit 2 Class 1E electric power inverters. Subsequently, TU Electric notified the NRC pursuant to 10CFR50.55(e) of a breakdown in the manufacturer's Quality Assurance (QA) program for the subject PCBs (TXX-92273 dated June 26, 1992). TXX-92273 described the specific deficiencies found in the Unit 2 PCBs, indicated that the deficiencies were not applicable to Unit 1 and stated that a review would be conducted of the manufacturer's report for preventing these deficiencies. This voluntary letter is submitted to provide the results of this review and identify additional actions being taken by TU Electric.

TU Electric has reviewed the manufacturer's Failure Analysis Report for the specific deficiencies discussed in TXX-92273. The analysis of these deficiencies was considered adequate, however, TU Electric could not conclude from the report that comprehensive actions necessary to resolve QA program weaknesses would be taken. In addition, more PCB deficiencies similar to those previously described have been documented since submittal of TXX-92273.

The following actions have been or are being implemented to resolve these concerns.

1. Baseline data has been established for each PCB by identifying the latest revision(s) supplied or recommended by the manufacturer or known to be acceptable based on testing and operating history at CPSES.
2. The approved revision(s) identified in the baseline data have been incorporated into the Purchasing and Materials Management System (PMMS). Future purchase orders for replacement PCBs will identify these revisions. In addition, safety related purchase orders will be subject to source inspections for configuration, workmanship and witnessing of

9301110189 930108  
PDR ADDCK 05000446  
S PDR

IE27  
1/0

factory testing. These source inspections will continue as an interim measure until confidence in the manufacturer's QA program is established.

3. Future revisions to PCBs by the manufacturer will be reviewed by Engineering to assess the impact of those changes on proper functioning of the PCBs. These reviews will be conducted prior to use of revised PCBs at CPSES. In addition, Engineering will review factory test procedures used to test the PCBs as discussed in item 2. above.
4. PCBs currently in the warehouse that were not subjected to the controls described above will be returned to the manufacturer.

TU Electric believes that the actions described above will maintain the quality of the subject Class 1E inverters being utilized at CPSES.

Sincerely,

*William J. Cahill, Jr.*

William J. Cahill, Jr.

By:

*Roger D. Walker*

Roger D. Walker  
Manager of Regulatory Affairs  
for NEO

JAA/tg

- c - Mr. J. L. Milhoan, Region IV  
Resident Inspectors, CPSES (3)  
Mr. T. A. Bergman, NRR  
Mr. B. E. Holian, NRR