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Log # TXX-00040
File # 10119
Ref. # Bulletin 88-02

February 15, 2000

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

SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION (CPSES) - UNIT 1
DOCKET NO. 50-445
NRC BULLETIN 88-02
RAPIDLY PROPAGATING FATIGUE CRACKS IN STEAM GENERATOR
TUBES

- REF: 1) NRC Bulletin 88-02, "Rapidly Propagating Fatigue Cracks in Steam Generator Tubes", dated February 5, 1988.
- 2) TXU Electric letter, logged TXX-88330, from C. L. Terry to the NRC dated March 23, 1988
- 3) TXU Electric letter, logged TXX-99121, from C. L. Terry to the NRC dated July 21, 1999

TXU Electric responded to the NRC Bulletin 88-02 (Reference 1) via Reference 2. TXU Electric supplemented Reference 2 by sending Reference 3 with the following information:

An evaluation of the potential for high cycle fatigue rupture of a steam generator tube, similar to that which occurred at North Anna Unit 1, has been performed for Comanche Peak Unit 1 [CPSES Unit 2 steam generators are D5, and were not included in this evaluation]. Consistent with the requirements of NRC Bulletin 88-02, the anti-vibration bar configuration of the ruptured tube in North Anna, R9C51 S/G C, is used as the reference case for the tube fatigue usage calculations for Comanche Peak Unit 1. The acceptability of unsupported tubes in the steam generators is based on tube specific analysis relative to the North Anna Unit 1 R9C51 tube, including the relative flow peaking factors. This evaluation was documented in WCAP-15009, Revision 0, "Comanche Peak Unit 1 Evaluation for Tube Vibration Induced Fatigue". Based upon the results of the fatigue analysis, all steam generator tubes except for two tubes in steam generator 3 are shown by calculation not to have the potential to experience high cycle fatigue failure similar to that which occurred at

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North Anna Unit 1. Those two tubes, R10C109 and R11C109, had cable dampers and plugs installed during the last refueling outage, which was the sixth refueling outage (1RF06).

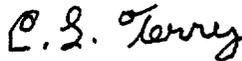
As a result of installing these cable dampers and plugs, no additional action is required for these tubes. This completes all the actions required by TXU Electric for the steam generators in CPSES Unit 1 as required by reference 1.

By this letter, TXU Electric wishes to assure the staff that existing design controls exist so that updates to stress ratios and fatigue usage calculations are performed, in the event there are any significant changes to the SG operations parameters (e.g., steam pressure, flow, circulation ratios) relative to those assumed in the applicable WCAP analysis.

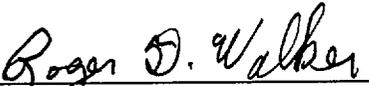
Should you have any questions regarding this matter, please contact Obaid Bhatti at (254) 897-5839 to coordinate this effort.

This communication contains no new licensing basis commitments regarding CPSES Units 1.

Sincerely,



C. L. Terry

By: 
Roger D. Walker
Regulatory Affairs Manager

OAB/oab

cc: E. W. Merschoff, Region IV
J. I. Tapia, Region IV
D. H. Jaffe, NRR
Resident Inspectors, CPSES