



Log # TXX-91139
File # 10110
903.8
Ref. # 10CFR50.55(e)

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Executive Vice President

May 17, 1991

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

SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION (CPSES) - UNIT 2
DOCKET NO. 50-446
SEISMIC DESIGN OF CONDUIT
SDAR: CP-86-53 (FINAL REPORT)

Gentlemen:

On July 25, 1986, the NRC was notified of a deficiency which was deemed reportable under the provisions of 10CFR50.55(e). This deficiency involves configurations where a rigid overhanging conduit changes direction and terminates in an airdrop with no support provided on the bent segment and a threaded fitting is present on the segment before the bend. During a seismic event, the unsupported bent segment of the conduit has the potential of placing a torsional moment on the threaded fitting. The inability of the threaded fitting to resist the torsional moment could result in excessive motions at the end of the conduit. Motions in these free end configurations could affect the enclosed safety related cables. Neither the cables nor the terminations have been specifically designed for the loads imposed by such motions. This letter addresses the Unit 2 corrective and preventive actions to resolve this issue.

This issue is being addressed during the Unit 2 design and installation process. Unit 2 isometrics depict all conduit fittings. For isometrics and calculations issued prior to the restart of engineering work on Unit 2, design procedures require a review to identify and resolve unacceptable occurrences by either adding or modifying supports to compensate for the conduit overhang condition. For new installations, the Unit 2 installation drawing requires that engineering approve conditions where a bent overhang exists with threaded fittings between the support and the beginning of a bend.

The criteria and corrective actions for resolving this issue are included as part of the resolution of all conduit support design concerns. Resolution of this issue will be accomplished as part of the corrective actions for SDAR CP-85-034 "Conduit Support Design" which is scheduled to be completed prior to Unit 2 fuel load. No further reports are planned for SDAR CP-86-53.

Sincerely,

William J. Cahill, Jr.

William J. Cahill, Jr.

By: *Roger D. Walker*

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Manager of Nuclear Licensing

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