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June 6, 1989

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Executive Vice President

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

SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION (CPSES)
DOCKET NOS. 50-445 AND 50-446
AUXILIARY FEEDWATER SYSTEM DESIGN PRESSURE
SDAR: CP-87-107 (SUPPLEMENTAL REPORT)

Gentlemen:

On October 27, 1987, TU Electric notified the NRC by letter logged TXX-6887 that the deficiency involving the calculated maximum Auxiliary Feedwater (AFW) System pressure was not reportable. The purpose of this report is to provide additional information regarding the engineering evaluation related to this issue.

The calculated maximum Auxiliary Feedwater (AFW) System pressure for the motor driven AFW pumps and bypass breakdown orifices has been revised from 1613.1 psig (as stated in TXX-6887) to 1611 psig (at a design temperature of 150°F). As stated in TXX-6887, the pumps and orifices were initially designed for 1600 psig. An engineering evaluation was performed to verify that the AFW motor driven pumps and associated orifices would not be affected by a sustained 11 psig increase in the AFW System design pressure. Results of the evaluation demonstrate that the pumps meet the requirements of subarticle NC-3400 of Section III of the ASME Code, and that the section properties/strength of the orifices are comparable to the system piping, which is designed to withstand 1800 psig. Additionally, the orifice manufacturer has hydrostatically tested the orifice to 2400 psig. On the basis of this information, it was concluded that the AFW system would not be adversely affected by sustained operation at 1611 psig.

The above information provides added assurance that the safe operation of the plant is not adversely affected and that this issue is not reportable under the provisions of 10CFR50.55(e).

Sincerely,

William J. Cahill, Jr.

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c - Mr. R. D. Martin, Region IV
Resident Inspectors, CPSES (3)

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