



Log # TXX-901051  
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William J. Cahill, Jr.  
Executive Vice President

December 28, 1990

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

SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION (CPS&S)  
DOCKET NO. 50-445 AND 50-446  
RELOAD ANALYSIS PROGRAM  
RXE-90-005, CONTROL ROD WORTH ANALYSIS

Gentlemen:

The TU Electric reload analysis program was discussed with the NRC staff in December, 1988, and again in July, 1990. Following the July discussions, the schedule for submittal of the TU Electric topical reports was provided in TXX-90342. Consistent with that schedule, attached for your review and approval is the Control Rod Worth Analysis report.

The Control Rod Worth Analysis report, RXE-90-005, is an extension of the methodology presented in the topical report "Steady State Reactor Physics Methodology," RXE-89-003-P, which was submitted to you on July 31, 1989. This report contains comparisons of calculated and measured control rod bank worths for three PWRs including Comanche Peak Steam Electric Station (CPS&S). In addition, the test procedures are summarized for control rod bank worth measurements using both the boron dilution and the control rod swap techniques. Test review and acceptance criteria are identified.

Approval of the enclosed report, along with approvals of those previously submitted and those yet to be submitted, are required to allow TU Electric to license cycle 3 operation without recourse to a nuclear fuel vendor. (Cycle 3 refueling begins in September, 1992.) In addition, the licensing basis of the TU Electric-Westinghouse integrated Cycle 2 program relies on the methodologies presented in the Steady State Reactor Physics Methodology report and the Control Rod Worth Analysis report. TU Electric requests that the NRC review and approve the enclosed report by September, 1991.

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400 North Olive Street L.B. 81 Dallas, Texas 75201

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Should you have any questions or comments regarding the attached report or the TU Electric Reload Analysis Program, please contact Jimmy D. Seawright (214) 812-4375 or Mickey R. Killgore (214) 812-8271 of my staff.

Sincerely,

*William J. Cahill, Jr.*  
William J. Cahill, Jr.

By: *Roger D. Walker*  
Roger D. Walker  
Manager of Nuclear Licensing

JDS/gj  
Attachment

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