

TEXAS UTILITIES SERVICES INC.

2001 BRYAN TOWER DALLAS, TEXAS 75201-3050

Log # TXX-4036
File # 905.4

August 31, 1983

Mr. B. J. Youngblood
U.S. Nuclear Regulatory Commission
Office of Nuclear Reactor Regulation
Washington, D.C. 20555

SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION
DOCKET NOS. 50-445 AND 50-446
D4/D5 STEAM GENERATOR MODIFICATIONS
ADDITIONAL INFORMATION

Dear Mr. Youngblood:

In response to specific NRC questions regarding the CPSES D4/D5 steam generator modifications submittal we provide the following:

ITEM 1.

Westinghouse has calculated the T_{avg} uncertainty for Comanche Peak to be 4.6°F . This 4.6°F uncertainty includes instrumentation errors, allowances and uncertainties associated with T_{cold} , N-16 Power, 1st Stage Turbine Impulse Chamber Pressure, and the T_{avg} controller. The uncertainties assumed are consistent with Reactor Protection System (RPS) and Engineered Safety Feature (ESF) function uncertainties.

The safety analyses incorporated 6.5°F uncertainty based on the original nominal T_{avg} . This 6.5°F uncertainty contained a 1.9°F "excess" as a margin against future changes such as the current steam generator modifications. The current nominal T_{avg} determined for the steam generator modifications reduces the amount of "excess" uncertainty to $.9^{\circ}\text{F}$.

ITEM 2.

All Chapter 15 analyses were reviewed to determine the effect of the changes to the core parameters resulting from the steam generator modifications. The following transients were evaluated with respect to the increase in nominal T_{avg} .

- RCCA Withdrawal from Subcritical
- RCCA Withdrawal at Power
- RCCA Misoperation
- Inadvertent Boron Dilution
- Startup of an Inactive Loop
- Loss of Load/Turbine Trip
- Loss of Normal Feedwater/Station Blackout
- Feedwater Malfunction
- RCS Depressurization

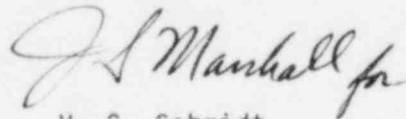
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Steamline Break
Loss of Flow/Locked Rotor
Rod Ejection
Feedline Break

Those transients which are of a DNB concern and/or heatup transient with longer term effects, were determined to be sensitive to increase in Tavg. Inasmuch as all the transients were assumed to initiate at 5.5⁰F higher than nominal Tavg (6.5⁰F higher than original nominal Tavg). The results of these transients remain unchanged and therefore no reduction in margin because of initial analysis assumptions.

Should you have additional questions in this matter, please contact this office.

Sincerely,

A handwritten signature in cursive script, appearing to read "H. C. Schmidt".

H. C. Schmidt

BSD:grr
cc: S. B. Burwell