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May 22, 1995

C. Lance Terry
Group Vice President

Mr. L. J. Callan
U. S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Dr., Suite 400
Arlington, TX 76011


SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION (CPSES) - UNIT 1
DOCKET NOS. 50-445
METEOROLOGICAL INSTRUMENTATION REPORT
SPECIAL REPORT NO. 1-SR-95-002-00

Dear Sir:

Enclosed is a 10 day Special Report titled, "Loss of Delta-T Channels at Meteorological Tower due to a Lightning Strike" submitted in accordance with the CPSES Unit 1 and Unit 2 Offsite Dose Calculation Manual, section 3.3.3.6, METEOROLOGICAL MONITORING INSTRUMENTATION.

Sincerely,

C. L. Terry

By: 
D.R. Woodlan
Docket Licensing Manager

OB/ob
Attachment

cc: Mr. D. F. Kirsch, Region IV
Resident Inspectors, CPSES
Document Control Desk, NRC

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TU ELECTRIC
COMANCHE PEAK STEAM ELECTRIC STATION
SPECIAL REPORT NO. 1-SR-95-002-00

LOSS OF DELTA-T CHANNELS AT METEOROLOGICAL TOWER
DUE TO LIGHTNING STRIKE

1.0 Report Requirements

This special report is submitted in accordance with Comanche Peak Steam Electric Station (CPSES) Unit 1 and Unit 2 Offsite Dose Calculation Manual (ODCM) Part-1 page 3/4-13 "Meteorological Monitoring Instrumentation." Section 3.3.3.6 requires that if one or more of the required channels (i.e., one of three wind directional channels, one of three wind speed channels or one of two atmospheric stability indication channels (Delta-Temperature)) are inoperable for more than 7 days, a Special Report be prepared and submitted to the Nuclear Regulatory Commission, pursuant to CPSES Technical Specification 6.9.2 within the next 10 days outlining the cause of the malfunction and the plans for restoring the channel(s) to OPERABLE status.

2.0 Event Description

On May 5, 1995, at 2008 CDT, a Lightning Strike damaged the meteorological instrumentation at the Primary and Backup Meteorological Towers. Data from the Primary and Backup Towers to Control Room was interrupted. On May 12, 1995, the Backup Tower was restored.

Attempts were made to restore the Primary Tower instrumentation, specifically, the Delta-Temperature (Delta-T) channel(s). However, due to the unavailability of parts (receiver card) the required Delta-T channel could not be restored within the seven days duration.

3.0 Corrective Actions

TU Electric has received the receiver cards. The Primary Tower instrumentation Delta-T (channel B) was restored on May 20, 1995, using the replacement card. Channel-A repairs are in process. The system will be restored and declared OPERABLE as soon as possible. Additionally, a Plant Incident Report (PIR) was issued to evaluate/resolve the lightning protection system at CPSES. Appropriate corrective actions will be taken to minimize recurrence of this problem.

TU ELECTRIC
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4.0 Evaluation Results

The CPSES ODCM requires availability of one wind speed, one wind direction and one Delta-T channel for the OPERABILITY of the meteorological instrumentation. These channels are located on the Primary Tower.

The Backup Tower provides wind speed, wind direction, ambient temperature and sigma theta (an indication for atmospheric stability in the horizontal plane). Although the ODCM does not take credit for Sigma Theta, analysis has indicated that meteorological data from the Backup Tower can be reliably substituted during loss-of-data periods from the Primary Tower. Additionally, the National Weather Service is another source of information for CPSES to obtain the required information needed to calculate/assess offsite dose calculation. Based on the above, this event did not impact the safety or health of the public or safe operation of CPSES.