TUELECTRIC

Log # TXX-92620
File # 10010
903.6 (clo)
Ref. # 10CFR50.34(b)

December 11, 1992

William J. Cahill, Jr.
Group Vice President

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION (CPSES) - UNIT 2
DOCKET NOS. 50-446 AND 50-446
ADVANCE FSAR SUBMITTAL - SECTION 3.6B, REFERENCE DELETION
RE: ENVIRONMENTAL FLOW MODELS

Gentlemen:

The attachment to this letter provides an advance CPSES FSAR submittal to facilitate NRC Staff review of the subject area in support of licensing Unit 2. The attachment is organized as follows:

1. A description/justification of each change.

2. A copy of the revised FSAR pages (changes are indicated in the margin by a revision bar and "87").

The attached material is scheduled to be incorporated in CPSES FSAR Amendment 87 which is currently scheduled for December 18, 1992. If you have any questions regarding this submittal, please contact Mr. Carl Corbin at (214) 812-8859.

Sincerely,

William J. Cahill, Jr.

By: D. R. Woodlan
D. R. Woodlan
Docket Licensing Manager

150047

CBC/grj
Attachment

c - Mr. J. L. Milhoan, Region IV
Resident Inspectors, CPSES (2)
Mr. T. A. Bergman, NRR
Mr. B. E. Holian, NRR

A029
1/1

Prefix Page (as amended)	Group	Description
3.6B-10	2	Revises section 3.6B.1.2.3 to delete reference to typical schematics (Figures 3.6B-93-1, 93-2, 94, and 95) of the environmental flow model. Revision : In FSAR Amendment 40, the text discussing environmental flow models was added and referred to Figures 3.6B-89, 90, and 91. The flow model figures were not submited until FSAR Amendment 41. However, the figures were submited as figures 3.6B-93, 94, and 95, but the text was not changed to reflect the new figure numbers. The discussion of the development and use of the flow models remain in Section 3.6B.1.2.3. Flow models have been developed and are currently maintained in existing engineering documents/analyses and are used as design input in the Unit 1 and 2 CPSES environmental analyses. The level of detail provided by the figures is not required for the FSAR. These figures were noted "typical" (for information only) due to ongoing model updates reflecting plant changes (e.g. changes in door positions). Change Request Number : SA-92-694.1 Commitment Register Number : Related SER : 3.6.2 SSER : SER/SSER Impact : No
Figure 3.6B-093-1	2	Deletes Figure 3.6B-93-1 (environmental flow model typical schematics). Revision : See justification for change on FSAR page 3.6B-10 (Section 3.6B.1.2.3). Change Request Number : SA-92-694.2 Commitment Register Number : Related SER : 3.6.2 SSER : SER/SSER Impact : No
Figure 3.6B-093-2	2	Deletes Figure 3.6B-93-2 (environmental flow model typical schematics). Revision : See justification for change on FSAR page 3.6B-10 (Section 3.6B.1.2.3). Change Request Number : SA-92-694.3 Commitment Register Number : Related SER : 3.6.2 SSER : SER/SSER Impact : No
Figure 3.6B-094	2	Deletes Figure 3.6B-94 (environmental flow model typical schematics). Revision :

FINAL SAFETY ANALYSIS REPORT (FSAR)
AMENDMENT / REVISION 87
DETAILED DESCRIPTION

Prefix Page (as amended)	Group	Description
		See justification for change on FSAR page 3.6B-10 (Section 3.6B.1.2.3). Change Request Number : SA-92-694.4 Commitment Register Number : Related SER : 3.6.2 SSER : SER/SSER Impact : No
Figure 3.6B-095	2	Deletes Figure 3.6B-95 (environmental flow model typical schematics). Revision : See justification for change on FSAR page 3.6B-10 (Section 3.6B.1.2.3). Change Request Number : SA-92-694.5 Commitment Register Number : Related SER : 3.6.2 SSER : SER/SSER Impact : No

40 For each of the plant models many different kinds of input information is calculated. Some of the calculated input parameters include the room volumes corrected by subtracting the volume occupied by large piping and major equipment, the specific surface areas of the walls, floor and ceiling for input as a heat sink and junction inertial values (L/A) specific to each of the flow paths of the as-built plant. Also the exact free area of the tornado dampers, blowout panels and blowout doors are used, along with the geometry of each to accurately model the swing of each as a function of time and differential pressure.

40 Sensitivity analyses are performed by changing several input parameters, one at a time, to determine the adequacy of the parameters used in the analysis.

40 A survey is made of all the compartments in the plant that contain HELBs and the governing worst case break for each of the
87 compartments is determined. Using the plant models mentioned above, each of the individual breaks that is the governing case for its compartment is then analyzed to determine the plant environment.

40 Using the results of the above analyses, a study is then performed to determine equipment affected by the environment. The affected equipment is then evaluated, on a case by case basis, to determine the equipment required for safe shutdown.

40 D. The governing results for each room and piece of equipment in terms of temporature, pressures and relative humidities are used as input to Section 3.11.

CPSES/FSAR

Figure 3.6B-93-1

This figure has been deleted.

CPSES/FSAR

Figure 3.6B-93-2

This figure has been deleted.

CPSES/FSAR

Figure 3.6B-94

This figure has been deleted.

CPSES/FSAR

Figure 3.6B-95

This figure has been deleted.