



Log # TXX-88078
File # 10110
903.6
Ref. # 10CFR50.55(e)

William G. Counsil
Executive Vice President

January 18, 1988

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

SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION (CPSES)
DOCKET NO. 50-445
JET IMPINGEMENT LOAD REVIEW
SDAR: CP-86-13 (FINAL REPORT)

Gentlemen:

On March 5, 1987, we verbally notified your Mr. T. F. Westerman of a deficiency involving a computer entry error which could invalidate portions of the jet impingement load review for high energy line breaks (HELB). This issue is applicable to Unit 1 only. Our latest interim report was logged TXX-6875, dated October 16, 1987.

Although our initial engineering evaluations indicate that this condition is not reportable, due to the extensive analysis required to support such a determination and since the jet impingement loads are being recalculated as a result of the Systems Interaction Program (SIP) for HELB, we have conservatively elected to report this deficiency under the provisions of 10CFR50.55(e). The required information follows.

Description

Computer program PIPSCIN was used to calculate the jet impingement loads from high energy pipe breaks in Unit 1. A design verification of the PIPSCIN program, was performed to address Technical Design Deficiency Report, TDDR DS-85-098. The verification subsequently identified an error in the input instructions which produced loads on some jet targets that were not conservative.

The cause of this condition has been determined to be an inadequate review of the computer input instructions.

Safety Implications

Failure of the high energy line break jet load analysis to meet required design criteria could result in an inability to attain and maintain a safe reactor shutdown condition during a HELB event.

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Corrective Action

This issue is being resolved as part of the SIP Design Basis Consolidation Program for HELB. For this program the jet impingement loads for Unit 1 are being recalculated utilizing the Ebasco JLOAD computer program. Upon completion of the calculations, an analysis of the components impacted will be performed to determine if any plant modifications are necessary to meet the new jet impingement loads.

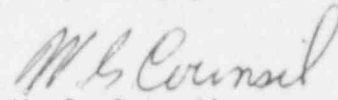
Other computer programs that were used for the HELB analyses are either validated or are replaced by validated new programs as part of the SIP.

Completion Date

Modifications (if any) required as a result of our evaluation will be identified and scheduled for implementation in the general construction schedule no later than August 11, 1988.

This is our final report on this issue. Corrective action will be tracked and statused via SDAR 87-133, entitled "High Energy Line Break Analysis." Our final report for SDAR CP-87-133, logged TXX-88118, was submitted on January 18, 1988.

Very truly yours,


W. G. Council

BSD/grr

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