



Log # TXX-88186
File # 10110
903.5
Ref. # 10CFR50.55(e)

February 5, 1988

William G. Counsel
Executive Vice President

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

SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION
DOCKET NOS. 50-445 AND 50-446
SERVICE WATER DISCHARGE PIPE MISSILE PROTECTION
SDAR: CP-88-22 (FINAL REPORT)

Gentlemen:

On January 28, 1988, we verbally notified your Mr. H. S. Phillips of a deficiency involving service water discharge pipe missile protection. We are conservatively reporting this issue under the provisions of 10CFR50.55(e). The required information follows.

DESCRIPTION

During CPSES design validation of the Service Water System (SWS), missile protection design requirements were identified for the Service Water System discharge structure. The Service Water System discharge piping terminates at the discharge structure wall and the pipe ends are subject to damage by tornado generated missiles. Due to the complexity associated with positively demonstrating that a tornado generated missile could never functionally impair the service water discharge pipe and parts of the discharge structure, we have elected to provide missile protection for this piping and structure.

The cause of this deficiency is inadequate tornado missile barrier design criteria. This deficiency is limited to the original design activities involving tornado missile protection.

SAFETY IMPLICATIONS

Failure to adequately protect the Service Water System discharge piping from postulated tornado generated missiles could cause disruption of the Service Water System supply of cooling water to safety related components within the plant.

This issue represents a deficiency in final design as approved and released for construction such that the design does not conform to the criteria and bases stated in the safety analysis report.

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CORRECTIVE ACTION

Tornado missile protection is being provided for the exposed ends of the Service Water System discharge piping by installing a removable concrete slab over the Service Water System discharge structure.

To prevent recurrence of this deficiency, Design Basis Document DBD-CS-081, "General Structural Design Criteria" has been established to incorporate the tornado missile barrier design criteria.

Corrective actions for Units 1 and 2 will be completed by September 26, 1988.

Very truly yours,

W. G. Council

By: John W. Beck
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Vice President,
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HAM/grr

c-Mr. R. D. Martin, Region IV
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