

AUG 31 1984

Docket No.: 50-445

Mr. M. D. Spence  
President  
Texas Utilities Generating Company  
400 N. Olive St., L. B. 81  
Dallas, Texas 75201

Dear Mr. Spence:

Subject: Request for Additional Information Concerning the Design of  
Cable Tray Supports

As a result of reviewing the information developed during Cygna's testimony in the last hearing session (April 24 - May 3, 1984), the NRC staff requires additional information concerning the design of the cable tray supports to complete its evaluation of the Cygna IAP (see enclosure). The FSAR should be amended to respond to these questions.

Should you have questions concerning this request, please contact the Project Manager, Mr. S. B. Burwell at (301) 492-7563.

Sincerely,

B. J. Youngblood, Chief  
Licensing Branch No. 1  
Division of Licensing

Enclosure: As stated

cc: See next page

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

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Sincerely,

A handwritten signature in cursive script that reads "B. J. Youngblood".

B. J. Youngblood, Chief  
Licensing Branch No. 1  
Division of Licensing

Enclosure: As stated

cc: See next page

COMANCHE PEAK

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COMANCHE PEAK STEAM ELECTRIC STATION

SGEB ADDITIONAL QUESTIONS ON CABLE TRAY SUPPORTS

STRUCTURAL ENGINEERING ASPECTS

- 130.37 In Cygna's response to CASE's question Walsh #5 and during the ASLB hearing of May 1, 1984, Cygna identified a safety factor of three (3) for the SSE condition as related to Hilti expansion anchors. As part of the justification Cygna referred to NRC Document MS 129-4. This NRC document (MS 129-4) is in a draft form, and has not been converted into a draft NRC Regulatory Guide and/or issued for public comments. Since this guide has not been finalized and recommends a safety factor lower than the manufacturer's recommended safety factor of four, we request that you justify your basis for accepting a safety factor of three. Also, as part of this response you should identify the total number of Hilti expansion anchors used on cable tray supports and the number and locations of expansion anchors that have a safety factor of less than four (4).
- 130.38 In response to a staff question at the ASLB hearing of May 3, 1984, (pages 13722-13725) Cygna witnesses stated that under SSE load conditions, the yield strength might be exceeded for certain components. At the same time, it was emphasized that the design is considered elastic and the use of the 1.6 factor in conjunction with some of the code allowable stress values brings the condition where the yield strength of certain components may be exceeded for the SSE load combinations. Identify all of the cases in the design of the cable tray supports where this condition occurs and provide detailed explanations for each controlling case.
- 130.39 In support of the damping values used for the design of cable trays and supports with welded connections, Cygna referred to ANCO's test results report on "Seismic Testing of Electric Cable Support Systems." This report provides good engineering test results related to allowable damping values to be used in the design of cable trays and their supports. Also, the results of this report with accompanying justifications have been accepted by the staff for accepting design damping values greater than the values identified in NRC Regulatory Guide 1.61. However, Cygna's answer to Walsh's question does not establish all of the specific ties (e.g. configuration) with the ANCO's report. We acknowledge the fact that the cable trays may be acceptably designed to higher damping values than those identified in RG 1.61, but good documentation and a clear determination of the applicability of test results is a must. Provide the necessary documentation and justifications. The FSAR should also be revised to accurately reflect how the design of the cable tray supports conforms to RG 1.61.