

AUG 07 1984

Docket Nos.: 50-445
and 50-446

Mr. M. D. Spence
President
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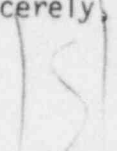
Dear Mr. Spence:

Subject: Request for Additional Information Concerning the Safety
Parameter Display System (SPDS) for Comanche Peak Steam
Electric Station (Units 1 and 2)

The NRC staff has reviewed your response to Generic Letter 82-33 dated April 15, 1984 concerning the SPDS for Comanche Peak and has concluded that insufficient information was provided to complete its evaluation. The information needed by the staff to complete its evaluation is defined in the enclosure to this letter.

Normally your response to the enclosed information request should be submitted 60 days before fuel load. Since Unit 1 fuel load is currently scheduled for October 10, 1984, and will occur sooner than 60 days, it is suggested that you advise the Project Manager when you will be prepared to address this information request within 5 days after receipt of this letter. If you believe that a meeting with the staff will help expedite its review, please advise me when you will be prepared to meet with the staff.

Sincerely,


B. J. Youngblood, Chief
Licensing Branch No. 1
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Enclosure:
As stated

cc: See next page

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REQUEST FOR ADDITIONAL INFORMATION
CONCERNING THE
COMMANCHE PEAK
SAFETY PARAMETER DISPLAY SYSTEM

Each operating reactor shall be provided with a Safety Parameter Display System (SPDS). The Commission approved requirements for an SPDS are defined in NUREG-0737, Supplement 1. In the Regional Workshops on Generic Letter 82-33 held during March 1983, the NRC discussed these requirements and the staff's review of the SPDS.

The staff reviewed the SPDS description provided by Texas Utilities Generating Company (Reference 1). The staff was unable to complete the review because of insufficient information. The following additional information is required to continue the review:

Instrumentation and Control Systems Information

420.01 Isolation Devices

Provide the following:

- a. For each type of device used to accomplish electrical isolation, describe the specific testing performed to demonstrate that the device is acceptable for its application(s). This description should include elementary diagrams when necessary to indicate the test configuration and how the maximum credible faults were applied to the devices.
- b. Data to verify that the maximum credible faults applied during the test were the maximum voltage/current to which the device could be exposed, and define how the maximum voltage/current was determined.
- c. Data to verify that the maximum credible fault was applied to the output of the device in the transverse mode (between signal and return) and other faults were considered (i.e., open and short circuits).
- d. Define the pass/fail acceptance criteria for each type of device.
- e. A commitment that the isolation devices comply with the environmental qualifications (10 CFR 50.49) and with the seismic qualifications which were the basis for plant licensing.

- f. A description of the measures taken to protect the safety systems from electrical interference (i.e., Electrostatic Coupling, EMI, Common Mode and Crosstalk) that may be generated by the SPDS.

620.01 Provide conclusions regarding unreviewed safety questions or changes to technical specifications.

The applicant has committed to providing a safety analysis concerning the SPDS prior to fuel load (Reference 2). When that analysis is submitted and the applicant has responded to this request for information, the staff will continue its review process.

REFERENCES

1. Amendment 36 to the Commanche Peak FSAR, Section III, A-21 through A-28.
2. Letter to B. J. Youngblood (NRC) from R. J. Gary (TUGCo), dated April 15, 1983.