

April 27, 2011

Mr. Rafael Flores, Senior Vice President
and Chief Nuclear Officer
Nuclear Engineering and Support
Luminant Generation Company, LLC
P.O. Box 1002
Glen Rose, TX 76043

SUBJECT: COMANCHE PEAK NUCLEAR POWER PLANT, UNITS 3 AND 4 – COMBINED
LICENSE APPLICATION - SAFETY EVALUATION WITH OPEN ITEMS FOR
CHAPTER 5, “REACTOR COOLANT AND CONNECTING SYSTEMS”

Dear Mr. Flores:

The U.S. Nuclear Regulatory Commission (NRC) staff is preparing a safety evaluation (SE) with open items (OIs) for each chapter of the Comanche Peak Nuclear Power Plant, Units 3 and 4 – Combined License Application submitted by Luminant Generation Company LLC (Luminant) and Comanche Peak Nuclear Company LLC on September 19, 2008, as supplemented by letters dated November 4, 5, 6, and 10, 2008, and December 18, 2008.

The NRC staff’s SE with OIs for Chapter 5, “Reactor Coolant and Connecting Systems,” is being provided to the Advisory Committee on Reactor Safeguards (ACRS) Subcommittee to support upcoming meetings of the ACRS Subcommittee, scheduled to be held on May 27, 2011.

The enclosed SE with OIs is being provided only to Luminant for review of proprietary information pursuant to Title 10 of the *Code of Federal Regulations* Part 2.390 “Public Inspections, Exemptions, Requests for Withholding.” The NRC staff concludes that the enclosed SE does not contain any information for which exemption from public disclosure has been sought or approved, or any factual errors. However, the NRC will withhold the enclosed SE from public disclosure for ten business days from the date of this letter to allow you the opportunity to verify the NRC staff’s conclusion that the SE contains no such exempt information or any factual errors. If within that ten day period, you do not request that all or portions of the SE be withheld from public disclosure, the enclosed SE will be made available for public inspection through the NRC Public Document Room and the Publicly Available Records component of NRC’s Agencywide Documents Access and Management System and placed on the NRC’s public web page for this application.

Document transmitted herewith contains sensitive unclassified information. When separated from the enclosure, this document is “DECONTROLLED.”

R. Flores

- 2 -

If you have any questions or comments regarding this matter, I can be reached at (301) 415-1544 or via e-mail address at Stephen.Monarque@nrc.gov.

Sincerely,

/RA/

Stephen Monarque, Project Manager
US-APWR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

Docket Nos.: 52-034 and 52-035

Enclosure:
Chapter 5 Safety Evaluation

cc w/o encl: See next page

R. Flores

- 2 -

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Enclosure:
Chapter 5 Safety Evaluation

cc w/o encl: See next page

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(Revised 04/06/2011)

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