

June 21, 2012

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: CHANGE TO THE COMANCHE PEAK NUCLEAR POWER PLANT, UNITS 3  
AND 4, COMBINED LICENSE APPLICATION SAFETY REVIEW SCHEDULE

Dear Mr. Flores:

The purpose of this letter is to inform you of a schedule change associated with the U.S. Nuclear Regulatory Commission (NRC) staff's review of the Comanche Peak Nuclear Power Plant (CPNPP), Units 3 and 4, Combined License Application (COLA). This revised schedule supersedes the review schedule provided to you on December 7, 2011, and reflects the recent changes to the NRC staff's review schedule for the United States - Advanced Pressurized Water Reactor (US-APWR) design certification (DC). The schedule change for the US-APWR DC is mainly due to an increased scope of work associated with seismic and structural analyses. The COLA review schedule closely follows the DC review schedule since the CPNPP, Units 3 and 4, COLA incorporates by reference the US-APWR design.

The CPNPP, Units 3 and 4, COLA review schedule encompasses only the safety review. The environmental review has already been completed and final environmental impact statement was issued on May 13, 2011. As you are aware, the NRC is unable to issue the safety evaluation (SE) for the Reference Combined License (RCOL) before the SE for the DC is issued. As a result of the recent changes to the US-APWR DC review schedule, the schedule for the COLA safety review has been revised, as shown in the enclosure entitled, "Comanche Peak Combined License Application Review Milestones." In addition, the schedule assumes that the COL mandatory hearing process will start upon the issuance of the Final Safety Evaluation Report and last 4 months, as described in Commission paper, "Staff Requirements SECY-10-0082 - Mandatory Hearing Process for Combined License Application Proceedings Under 10 CFR Part 52," dated December 23, 2010.

The major areas contributing to the need for this revision to the review schedule are seismic and structural analyses and hydrology.

By letter dated April 16, 2012, Luminant Generation Company, LLC. (Luminant) submitted an integrated seismic closure plan for the CPNPP, Units 3 and 4, COLA. Luminant plans to perform an evaluation of the nuclear island complex in order to show that the site-specific seismic demands on the nuclear island complex are enveloped by the US-APWR DCD seismic demands. Luminant also plans to perform the site-specific soil-structure interaction (SSI) and structure-soil-structure interaction analyses of the site-specific structures, as well as site-specific SSI analysis of the embedded nuclear island complex using the SSI software SASSI's Modified

Subtraction Method. In addition, Luminant plans to have all supporting calculations and reports available for audit by May 2013.

Based on the Luminant's current integrated seismic closure plan, the NRC staff plans to complete its Phase 2 review of Part 2, Chapter 3, "Design of Structures, Components, Equipment, and Systems," of the COLA by March 2014. The NRC staff will periodically re-evaluate this revised schedule and will make any necessary adjustments based on the progress made by Luminant. The schedule assumes that all technical information submitted by Luminant is complete and technically sufficient.

By letter dated April 27, 2012, Luminant submitted a comprehensive integrated hydrology closure plan for CPNPP, Units 3 and 4. In this closure plan, Luminant provided a schedule for submitting several licensing documents. The most significant submittals are the revised surface water calculation package, and the surface water, groundwater flow and radioactive liquid effluent transport models. The revised surface water calculation package and surface water model are due by December 2012. The groundwater flow and radioactive liquid effluent transport models are due by March 2013. While the NRC staff acknowledges that Luminant has made significant progress to date, the completion and timely delivery of these key submittals are necessary in order for the NRC staff to meet this revised review schedule.

If you have any questions regarding this matter, please contact Mr. Stephen R. Monarque, Lead Project Manager for the CPNPP, Units 3 and 4, COLA at (301) 415-1544, or via e-mail at [Stephen.Monarque@nrc.gov](mailto:Stephen.Monarque@nrc.gov).

Sincerely,

*/RA/*

David B. Matthews, Director  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos.: 52-034 and 52-035

Enclosure:  
As stated

cc w/Enclosure: See next page

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David B. Matthews, Director  
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### Comanche Peak Combined License Application Review Milestones

<b>Safety Review</b>	<b>Completion Dates (Old Schedule)</b>	<b>Completion Dates (Revised Schedule)</b>
Phase 1 - Preliminary Safety Evaluation Report (SER) and Requests for Additional Information	Completed	Completed
Phase 2 - SER with Open Items	April 2013	March 2014
Phase 3 - Advisory Committee on Reactor Safeguards (ACRS) Review of SER with Open Items	August 2013	June 2014
Phase 4 - Advanced SER with No Open Items	January 2014	December 2014
Phase 5 - ACRS Review of Advanced SER with No Open Items	March 2014	February 2015
Phase 6 - Final SER	July 2014	June 2015
Mandatory Hearing Process	December 2014	November 2015

Enclosure

COL - Comanche Peak Mailing List  
cc:

(Revised 05/21/2012)

Certrec Corporation  
4150 International Plaza, Suite 820  
Fort Worth, TX 76109

Ms. Michele Boyd  
Legislative Director  
Energy Program  
Public Citizens Critical Mass Energy  
and Environmental Program  
215 Pennsylvania Avenue, SE  
Washington, DC 20003

Director  
Division of Compliance & Inspection  
Bureau of Radiation Control  
Texas Department of State Health Services  
1100 West 49th Street  
Austin, TX 78756-3189

## COL - Comanche Peak Mailing List

### Email

acpasswater@aol.com (Al Passwater)  
APH@NEI.org (Adrian Heymer)  
awc@nei.org (Anne W. Cottingham)  
bfine@co.hood.tx.us (Brian Fine)  
Bill.Moore@luminant.com (Bill Moore)  
BrinkmCB@westinghouse.com (Charles Brinkman)  
brock.degeyter@energyfutureholdings.com (Brock Degeyter)  
cindy@seedcoalition.org (Cindy)  
ck\_paulson@mnes-us.com (Keith Paulson)  
cp34update@certrec.com (CPNPP LRS)  
CumminWE@Westinghouse.com (Edward W. Cummins)  
cwaltman@roe.com (C. Waltman)  
david.lewis@pillsburylaw.com (David Lewis)  
Dennis.Buschbaum@luminant.com (Denny Buschbaum)  
derrell.mccravey@co.somervell.tx.us (Somervell County Chief Deputy Derrell McCravey)  
donald.woodlan@luminant.com (Donald Woodlan)  
ed.burns@earthlink.net (Ed Burns)  
eliza.seedcoalition@gmail.com (Elza Brown)  
Fred.Madden@luminant.com (Fred Madden)  
gedgar@morganlewis.com (George Edgar)  
gzinke@entergy.com (George Alan Zinke)  
JCaldwell@luminant.com (Jan Caldwell)  
jeff.simmons@energyfutureholdings.com (Jeff Simmons)  
John.Conly@luminant.com (John Conly)  
Joseph\_Hegner@dom.com (Joseph Hegner)  
joseph\_tapia@mnes-us.com (Joseph Tapia)  
jrund@morganlewis.com (Jonathan Rund)  
KSutton@morganlewis.com (Kathryn M. Sutton)  
kwaugh@impact-net.org (Kenneth O. Waugh)  
lchandler@morganlewis.com (Lawrence J. Chandler)  
lon.burnam@house.state.tx.us (Lon Burnam)  
maria.webb@pillsburylaw.com (Maria Webb)  
mark.beaumont@wsms.com (Mark Beaumont)  
masanori\_onozuka@mnes-us.com (Masanori Onozuka)  
matias.travieso-diaz@pillsburylaw.com (Matias Travieso-Diaz)  
media@nei.org (Scott Peterson)  
mike.blevins@luminant.com (Mike Blevins)  
mike\_moran@fpl.com (Mike Moran)  
mjohnson@citizen.org (Matt Johnson)  
mlucas3@luminant.com (Mitch Lucas)  
MSF@nei.org (Marvin Fertel)  
nirsnet@nirs.org (Michael Mariotte)  
Nuclaw@mindspring.com (Robert Temple)

COL - Comanche Peak Mailing List

patriciaL.campbell@ge.com (Patricia L. Campbell)  
paul.gaukler@pillsburylaw.com (Paul Gaukler)  
Paul@beyondnuclear.org (Paul Gunter)  
pbessette@morganlewis.com (Paul Bessette)  
plarimore@talisman-intl.com (Patty Larimore)  
rbird1@luminant.com (Bobby Bird)  
rdeeds@co.hood.tx.us (Hood County Sheriff Roger Deeds)  
RJB@NEI.org (Russell Bell)  
sabinski@suddenlink.net (Steve A. Bennett)  
sfrantz@morganlewis.com (Stephen P. Frantz)  
shinji\_kawanago@mnes-us.com (Shinji Kawanago)  
stephan.moen@ge.com (Stephan Moen)  
tgilder1@luminant.com (Tim Gilder)  
tmatthews@morganlewis.com (T. Matthews)  
Vanessa.quinn@dhs.gov (Vanessa Quinn)  
Wanda.K.Marshall@dom.com (Wanda K. Marshall)