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CP-201000171  
Log # TXNB-10006

Ref. # 10 CFR 52

February 5, 2010

U. S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555  
ATTN: David B. Matthews, Director  
Division of New Reactor Licensing

**SUBJECT:** COMANCHE PEAK NUCLEAR POWER PLANT, UNITS 3 AND 4  
DOCKET NUMBERS 52-034 AND 52-035  
SUPPLEMENTAL RESPONSE TO REQUESTS FOR ADDITIONAL INFORMATION  
NO. 3556 AND 3557

Dear Sir:

Luminant Generation Company LLC (Luminant) submits herein supplemental information for the responses to Requests for Additional Information No. 3556 and 3557 for the Combined License Application for Comanche Peak Nuclear Power Plant Units 3 and 4.

The electronic files submitted on the enclosed CD are in "native format" as required for use by the NRC. Therefore the files do not meet the "Guidance for Electronic Submission to the NRC," Revision 5.

Should you have any questions regarding this supplemental information, please contact Don Woodlan (254-897-6887, Donald.Woodlan@luminant.com) or me.

There are no commitments in this letter.

I state under penalty of perjury that the foregoing is true and correct.

Executed on February 5, 2010.

Sincerely,

Luminant Generation Company LLC

*Donald R. Woodlan for*

Rafael Flores

Attachment 1: Supplemental Response to Request for Additional Information No. 3556 (CP RAI #45)  
Attachment 2: Supplemental Response to Request for Additional Information No. 3557 (CP RAI #46)  
Enclosure: CD containing Meteorological Data (Native Files)

D079  
NRW

cc: Stephen Monarque w/attachments and enclosure

Electronic distribution w/attachments only

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U. S. Nuclear Regulatory Commission  
CP-201000171  
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2/5/2010

## **Attachment 1**

### **Supplemental Response to Request for Additional Information No. 3556 (CP RAI #45)**

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**SUPPLEMENTAL RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION**

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**Comanche Peak, Units 3 and 4**  
**Luminant Generation Company LLC**  
**Docket Nos. 52-034 and 52-035**

**RAI NO.: 3556 (CP RAI #45)**

**SRP SECTION: 02.03.02 - LOCAL METEOROLOGY**

**QUESTIONS for Siting and Accident Conseq Branch (RSAC)**

**DATE OF RAI ISSUE: 9/5/2009**

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**QUESTION NO.: 02.03.02-2**

Regarding the seasonal/annual cooling tower impact (SACTI) cooling tower plume modeling, please describe the input assumptions (including the cooling tower vendor data) and provide an electronic copy of the cooling tower plume modeling SACTI input and output files, including the meteorological data used.

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**SUPPLEMENTAL INFORMATION**

Luminant letter TXNB-09055 dated October 19, 2009 (ML093370112) provided the meteorological data requested by RAI 3556 (CP RAI #45). One of the files provided referred to another file called "cpmixht.txt." That file provides the mixing height data that was used in the SACTI runs and it is attached herein for the reviewer's convenience.

Impact on R-COLA

None.

Impact on S-COLA

None.

Impact on DCD

None.

Attachment (native file on enclosed CD)

cpmixht.txt

U. S. Nuclear Regulatory Commission  
CP-201000171  
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2/5/2010

## **Attachment 2**

### **Supplemental Response to Request for Additional Information No. 3557 (CP RAI #46)**

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**SUPPLEMENTAL RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION**

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**Comanche Peak, Units 3 and 4**

**Luminant Generation Company LLC**

**Docket Nos. 52-034 and 52-035**

**RAI NO.: 3557 (CP RAI #46)**

**SRP SECTION: 02.03.03 - ONSITE METEOROLOGICAL MEASUREMENTS PROGRAMS**

**QUESTIONS for Siting and Accident Conseq Branch (RSAC)**

**DATE OF RAI ISSUE: 9/5/2009**

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**QUESTION NO.: 02.03.03-2**

NUREG-0800, 'Standard Review Plan,' Section 2.3.3, Section II (Acceptance Criteria), Standard Review Plan (SRP) Acceptance Criterion (2) and Regulatory Guide (RG) 1.206, 'Combined License Applications for Nuclear Power Plants (LWR Edition),' Section C.I.2.3.3 (Para. 2 & 3) discusses the submittal of an hour-by-hour listing of the hourly averaged parameters in the format described in RG 1.23, "Meteorological Monitoring Programs for Nuclear Power Plants."

Luminant provided the NRC staff five years of hourly data for 2001 through 2004 and 2006 for Comanche Peak Nuclear Power Plant (CPNPP) on May 8, 2009. Refer to Response to NRC staff's RAI # 3 (2584), dated May 8, 2009. A preliminary review appears to indicate the data provided has not undergone a complete quality assurance review, as stated in the RAI response. During an analysis of temperature data, numbers of hours with erroneous negative temperatures were noted in the data sets provided. For example, hours 0900 through 1200 on day 269 of 2002, all report a temperature of -28.7 degrees C. Another example is the 60-meter wind direction remaining nearly constant from the north for an approximately 1850-hour period from November 5, 2003 to January 20, 2004.

- a. Describe and justify any deviations from the meteorological monitoring criteria presented in SRP 2.3.3 and RG 1.23, in collecting and compiling the onsite meteorological data presented in support of this COL application.
- b. Describe the manner in which suspect data were removed from the short-term and long-term atmospheric dispersion calculations presented in FSAR Sections 2.3.4 and 2.3.5. If suspect data were not removed, explain how this anomalous data may have affected the calculations.
- c. Provide, in Regulatory Guide 1.23, Rev 1 format, an electronic copy of the meteorological dataset that reflects the screening criteria listed in the response to RAI 2584.

**SUPPLEMENTAL INFORMATION:**

- c. The response to related RAI #2584 (ML091330346) was intended to provide filtered data in the RG 1.23 format, but some unfiltered data were inadvertently submitted instead. The filtered meteorological data for the years 2001-2004 and 2006, in RG 1.23, Revision 1 format, are provided in this response as a composite file and as individual yearly electronic files. The first line of each file has a heading of "CPNPP Filtered Meteorological data XXXX", where XXXX is the data year (or years), to distinguish these files from the raw data files previously provided.

Impact on R-COLA

None.

Impact on S-COLA

None.

Impact on DCD

None.

Attachments (native files on enclosed CD)

CPMetData\_2001\_1-12-2010.txt  
CPMetData\_2002\_1-12-2010.txt  
CPMetData\_2003\_1-12-2010.txt  
CPMetData\_2004\_1-12-2010.txt  
CPMetData\_2006\_1-12-2010.txt  
CPMetData\_All\_1-12-2010.txt