PMComanchePeakPEm Resource

From: Donald.Woodlan@luminant.com
Sent: Wednesday, September 16, 2009 9:41 AM
To: Monarque, Stephen; John.Conly@luminant.com; diane_yeager@mnes-us.com; Eric.Evans@luminant.com; joseph_tapia@mnes-us.com; kazuya_hayashi@mnes-us.com; Matthew.Weeks@luminant.com; cp34-rai@mnes-us.com; russell_bywater@mnes-us.com
Cc: jairus_greene@mnes-us.com; russell_bywater@mnes-us.com; ron_reynolds@mnes-us.com
Subject: RE: Comanche peak RCOLA RAI List
Attachments: 2009-09-16 Agenda.pdf; RAI 2864 (RAI 32).doc; RAI 3557 (RAI 46).doc

Thanks Steve. I have attached the discussion topics that I have for today's COLA conference call. (Note that I have not added RAIs #59 and #60 yet.)

I also received your phone message regarding RAI #32 and RAI #46. I assume we will discuss these first.

- RAI # 32, FSAR Subsection 2.2.3, question 02.02.03-7, re impacts of radiological releases from CPNPP Units 1 and 2 on the safety of the plant and personnel at CPNPP Units 3 and 4.
- RAI # 46, FSAR Subsection 2.3.3, re electronic meteorological data.

D. R. Woodlan
Donald R. Woodlan
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From: Monarque, Stephen [mailto:Stephen.Monarque@nrc.gov]
Sent: Tuesday, September 15, 2009 2:17 PM
To: Conly, John; Woodlan, Don; cp34-rai-luminant@mnes-us.com; Diane Yeager; Evans, Todd; joseph tapia; Kazuya Hayashi; Weeks, Matthew; MNES RAI mailbox; Russ Bywater
Cc: ComanchePeakCOL Resource
Subject: Comanche peak RCOLA RAI List

thanks,

Stephen Monarque
U. S. Nuclear Regulatory Commission
NRO/DNRL/NMIP
301-415-1544

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Hearing Identifier: ComanchePeak_COL_Public
Email Number: 610

Mail Envelope Properties (4C66789B9B144E42B3FBCAD7B9C908A701C83A8F)

Subject: RE: Comanche peak RCOLA RAI List
Sent Date: 9/16/2009 9:41:02 AM
Received Date: 9/16/2009 9:41:10 AM
From: Donald.Woodlan@luminant.com

Created By: Donald.Woodlan@luminant.com

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Files	**Size**	**Date & Time**
MESSAGE	1713	9/16/2009 9:41:10 AM
2009-09-16 Agenda.pdf	39648	
RAI 2864 (RAI 32).doc	29248	
RAI 3557 (RAI 46).doc	36416	

Options
Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

CPNPP Units 3 and 4

Licensing Conference Calls

Filter

	Title	Description	Date
020 Weekly (1)			
	Discuss status of COLA Reviews	Use the spreadsheet of COLA parts and FSAR SRP sections created by Stephen Monarque as updated by CPNPP project. When sending out updates to the spreadsheet, please send to cp34-rai-luminant@mnes-us.com like you do RAIs.	7/1/2009
030 RAIs (16)			
	Health Physics RAIs	(7/15) HP RAIs are in the mill. On 9/9 NRC confirmed one more Chapter 11 RAI (11.5) and then some Chapter 12 RAIs.	
	QA RAIs	(7/15) QA RAIs will be soon. (8/5) Should receive them within 30 days (by 9/4).	
	ER RAIs, Supplemental Responses	Based on conference calls with reviewers. TXNB-09041	9/11/2009
	RAI #25, 3.10 Seismic/Dynamic Qualification	3 questions, 1 with 4 subparts	9/22/2009
	RAI #26 Ch 19 PRA & SAE	3 questions, 1 with 4 subparts	9/22/2009
	RAI #27, 3.6.2 Pipe Rupture	2 questions	9/22/2009
	FEMA Followup Question	One question. Due in 30 business days.	9/24/2009
	RAI #28 Ch 19, PRA & SAE	4 questions, several with multiple subparts	9/25/2009
	RAI #29, Section 11.2, LWMS	4 questions with multiple subparts Question three is very similar to HP site visit item. We are adding a write up to the reading room (around 8/31) and making changes to FSAR (UTR #4, 9/2/09). Is this what the reviewer is looking for?	9/25/2009
	RAI - GEO	Includes: RAI #11 Section 2.5.2 - Geosciences and Geotechnical. 21 questions RAI #14 2.5.1 Seismic - One Question *(Completed by TXNB-09035 on 8/28)* RAI #15, Quanternary 2.5.1 - One question *(To be completed by 9/10 submittal)* RAI #18, 2.5.3, Surface Faulting - 3 questions RAI #19, 2.5.5, Stability of Slopes - 3 questions RAI #21, 2.5.1 Basic Geo - 18 questions with multiple parts (over 40 parts) RAI #22, 2.5.4, Subsurface Materials - 21 Questions Steve Monarque approved changing requested response time from 35 to 42 days (starting 7/30) on 7/1/2009. On 8/10/09, luminant asked for 90 days (due 10/28/09) to respond to 2.5.2-1, 2.5.2-3, 2.5.5-1, and 2.5.4-1, 2, 3, 4, 9, 10 and 17. Steve Monarque agreed to this schedule on 8/19/09. Partial response via TXNB-09035 dated 8/28/09. Bulk of responses provided in TXNB-09042 of 9/10/2009. More answers are planned for 9/28 and 10/28.	9/28/2009

	2009-09-03 RAIs 30-36	RAI 30, 2.2.1, Ext Hazds, 2 ques RAI 31, 2.2.3, Cntrl Rm Hav, 6 ques RAI 32, 2.2.3, U1/2 impact on U3/4, 1 ques RAI 33, 3.5.1.5, U1/2 Turb Misl, 1 ques RAI 34, 9.5.2, Bkup emerg Comm Pwr, 1 ques RAI 35, 11.3, Gas Wst Pipint Class, 1 ques RAI 36, 11.3, Gas Wst Dose Calcs, 1 ques	10/15/2009
	2009-09-04 RAIs 37-44	RAI 37, 13.5.2, Procedures, 6 ques RAI 38, 11.4, LWMS, 2 ques RAI 39, 11.4, LWMS, 2 ques RAI 40, 5.2.1.1, PSI-ESI RCPB, 2 ques RAI 41, 5.2.1.2, Code Cases, 1 ques RAI 42, 5.2.1.2, Code Case, 1 ques RAI 43, 6.6, PSI-ISI, 1 ques RAI 44, 6.6, Augmented ISI, 1 ques	10/19/2009
	2009-09-05 RAIs 45-47	RAI 45, 2.3.2, Met data, 3 ques RAI 46, 2.3.3, Met, 8 ques RAI 47, 3.2.1, Seismic Class, 2 ques	10/19/2009
	2009-09-07 RAIs 48-50	RAI #48, 9.4.3, Rad Waste Vent Sys, 1 ques RAI #49, 11.2, LWMS, 5(20) ques RAI #50, 11.5 ODCM SGBDS, 2(7) ques	10/19/2009
	2009-09-09 RAIs 51-53	RAI 51 2.3.1 Climatology 5 ques RAI 52 9.1.5 Heavy Loads 1 ques RAI 53 3.7.4 Seismic Recording 1 ques	10/21/2009
	2009-09-14 RAIs 54-58	RAI 54 3.3.1 Wind 2 ques RAI 55 3.7.1 Seis Input 5 ques RAI 56 14.3.3 ASME ITAAC 4 ques RAI 57 3.9.6 IST 12 ques RAI 58 5.2.5 RCPB Leakage 2 ques	10/26/2009
040 Recent Submissions (4)			
	TXNB-09040	Answers to RAIs #23 and 24	9/8/2009
	TXNB-09041	Answers to second set of ER questions.	9/9/2009
	TXNB-09042	GEO RAIs - Second set of answers	9/10/2009
	TXNB-09045 ER RAI Followup	Revised DVD for ER RAI #2	9/14/2009
050 Future Submissions (9)			
	TXNB-09043	FSAR UTR #5 and TS UTR #0- includes COLA Rev. 1 updates	9/16/2009
	TXNB-09044 Response to FEMA RAI	CP-09044	9/16/2009
	TXNB-09046	Supplemental responses to ER RAI #1.	9/16/2009
	TXNB-09047	Answers to RAIs #25, 26 and 27	9/22/2009
	TXNB-09048	Answers to RAIs #28 and 29	9/25/2009
	TXNB-09049	GEO Questions - third set of answers	9/28/2009
	TXNB-09050	FSAR UTR #6 - COLA Rev. 1	10/8/2009
	TXNB-09056	GEO RAIs - Fourth set of answers	10/28/2009
	COLA Revision 1	Luminant intends to issue revision 1 in November 2009. There will be several UTR submittals before the revision is submitted. There should be almost no new information in the rev.	11/20/2009

060 Public Meetings (1)			
	DCWG Meetings on RITS and PRA	**THIS IS A PLACEHOLDER. A MEETING MAY NOT BE NEEDED.** No date established yet. Discuss the path forward to approved the RITS in DCD and COLA. Meeting completed as scheduled. Follow-up meetings based on NRC needs may be appropriate. NRC to identify needs, notify Luminant and then propose meeting date/time. NRC is looking at October 2009.	6/30/2009
070 Site Visits/Audits (2)			
	Security Safety Site Visit	(7/15) Security SSV on hold for now. FFD will be reviewed during Phase 2 Cyber security will be during Phase 4.	
	QA Audit	Expected in phase IV of the review. A date of December 2009 assigned as a place holder until the NRC releases a proposed review schedule. This is a phase 4 activity.	12/31/2010
075 Conference Calls (2)			
	GEO Site Visit Actions 01 and 02	Luminant believes a conference call between our SME (Frank Syms) and the reviewer (Carl Costantino) would be beneficial. Luminant will take the lead to arrange such a call. (Looking at some time the week of 9/14/09).	9/15/2009
	Weekly COLA Conference Calls	Every week a call will be scheduled between the CPNPP project and NRO projects to discuss the CPNPP COLA review. Wednesdays at 10:30am EDT/ 9:30 CDT. 9/15 - Discuss RAIs 23 and 46.	9/16/2009
090 Action CPNPP (2)			
	Hearing Petitions	Board accepted contentions 13 and 18 on 8/6/09. Ongoing discussions about Large Area Fires. Petitioners proposed new contentions. Replys and answers provided to ASLB. Document list for discovery submitted by Luminant. Conference call on schedule for proceedings 9/16/2009.	9/4/2009
	Geology Site Visit Information Items	Develop response to Information Items identified during site visit that go beyond formal RAIs (GEOSV). Luminant intends to include all information with the GEO RAI response packages.	9/10/2009
100 Action NRO (2)			
	Environmental Audit Reports	Environmental expects to issue multiple reports in May 2009 including: Alternate Site Visit Environmental Site Visit Hydrology conference calls	6/30/2009
	Site Visit Audit Reports	Prepare audit reports for HP, HYD and GEO site visits. The NRC will send a draft to Luminant to confirm that the reports do not include any proprietary material.	9/16/2009
120 ACRS (2)			
	2010-?? ACRS Presentation	The ACRS may ask for an orientation meeting re the CPNPP R-COLA. Because CPNPP is an Reference COL, we may have 3 to 5 ACRS meetings. COL first visit will be in Phase 3.	1/30/2010
	Joint DCD/R-COLA ACRS Meetings	Steve was going to discuss the timing of the US-APWR and CPNPP R-COLA reviews by ACRS. ACRS may find it more efficient and effective to jointly review all or portions of these products at the same time. Steve will discuss with Jeff and Branch Chief (and possibly their ACRS contact). DCD reviews/meeting should not be delayed to support this approach.	1/31/2010

Total: **41**

Request for Additional Information (RAI 32) No. 2864

RAI # 32

9/3/2009

Comanche Peak Units 3 and 4
Luminant Generation Company, LLC.
Docket No. 52-034 and 52-035
SRP Section: 02.02.03 - Evaluation of Potential Accidents
Application Section: 2.2.3

QUESTIONS for Siting and Accident Conseq Branch (RSAC)

02.02.03-7

RG 1.206, "Combined License Applications for Nuclear Power Plants (LWR Edition)," (June 2007) provides guidance regarding the information that is needed to ensure potential hazards in the site vicinity are identified and evaluated to meet the siting criteria in 10 CFR 100.20 and 10 CFR 100.21. In addition to assessing the radiological hazards from Comanche Peak Nuclear Power Plant (CPNPP), Units 3 and 4, the release of radioactive material from Units 1 and 2 from normal operations or from an unanticipated event may also impact the safety of the plant or personnel at CPNPP Units 3 and 4. The potential effects from Units 1 or 2 has not been addressed in CPNPP Units 3 and 4 COL FSAR Section 2.2.3.1. Provide a discussion of these potential effects from Unit 1 or 2 on the personnel at CPNPP Units 3 and 4 in Section 2.2.3.1 or provide a reference to the appropriate section.

Request for Additional Information (RAI) No. 3557

RAI # 46

9/5/2009

Comanche Peak Units 3 and 4
Luminant Generation Company, LLC.
Docket No. 52-034 and 52-035
SRP Section: 02.03.03 - Onsite Meteorological Measurements Programs
Application Section: Onsite Meteorological Measurements Programs

QUESTIONS for Siting and Accident Conseq Branch (RSAC)

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.

02.03.03-3

NUREG-0800 Section 2.3.3, Section III (Review Procedures), indicates that atmospheric moisture should be collected for sites using cooling towers. Since the proposed Comanche Peak Nuclear Power Plants, Units 3 and 4 will use mechanical cooling towers, the NRC staff is requesting any pre-operational monitoring data for atmospheric moisture measurements conducted in relationship to the new units (Units 3 and 4). This information should include data related to the discussions in FSAR Chapter 2.3.

Provide in FSAR Section 2.3.3, a description of the instruments used for the moisture measurements. Include in the description, the height and location of the instruments as well as any other pertinent information regarding their siting.

02.03.03-4

The criteria in NUREG-0800 Section 2.3.3, Section III,1.a.2 specifies that instrument exposure be evaluated in relationship to the “likely finished plant grade”. Please provide the likely finished grade elevation of Comanche Peak Nuclear Power Plant, Units 3 and 4 and compare this likely finished plant grade to the meteorological tower grade.

02.03.03-5

Regulatory Guide 1.23, Meteorological Monitoring Programs for Nuclear Power Plants," (March 2007) Table 2, specifies the Meteorological System Accuracies and Resolutions for an onsite meteorological monitoring program. Please include in FSAR Section 2.3.3 the resolution of each of the instruments used to record ambient temperature, vertical temperature difference, wind speed, wind direction, and precipitation.

02.03.03-6

In accordance with Regulatory Guide 1.23, "Meteorological Monitoring Programs for Nuclear Power Plants," (March 2007), please clarify how often Luminant inspects the guyed wires, as part of the guyed tower, and tower anchors.

02.03.03-7

In accordance with NUREG-0800 Section 2.3.3, Section III (Review Procedures), 1.d and Regulatory Guide 1.23, Section C.5, please provide additional details that describe how Luminant performs system calibrations, to ensure the entire channel, from sensors to displays, are checked. Also, provide information on daily channel checks. Please update FSAR Section 2.3.3 to reflect this information.

02.03.03-8

For the delta-temperature, Regulatory Guide 1.23, "Meteorological Monitoring Programs for Nuclear Power Plants," (March 2007), Table 2, specifies a system accuracy of plus or minus 0.18 degrees F, while FSAR Table 2.3-332 indicates a system accuracy of plus or minus 0.19 degrees F for the Paperless Digital delta-temperature measurement. Please clarify the reasons for this apparent difference.

02.03.03-9

For clarification in FSAR Section 2.3.3.5.1, please specify whether the digital paperless recorder and the Yokogawa recorder are different or the same? If these recorders are different, then where is the Yokogawa recorder located? Further, how will the Comanche Peak Nuclear Power Plants, Unit 3 and Unit 4 plant computers interface with the meteorological data ,and where will they display the meteorological data?