

## PMComanchePeakPEm Resource

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**From:** Monarque, Stephen  
**Sent:** Friday, September 25, 2009 1:41 PM  
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**Cc:** Magee, Michael; ComanchePeakCOL Resource  
**Subject:** Comanche Peak RCOL Section 17.5 - RAI # 79 - Quality Assurance  
**Attachments:** RAI 2996 (RAI 79).doc

The NRC staff has identified that additional information is needed to continue its review of the combined license application. The NRC staff's request for additional information (RAI) is contained in the attachment. Luminant is requested to inform the NRC staff if a conference call is needed.

The response to this RAI is due within 42 calendar days of September 25, 2009.

Note: If changes are needed to the safety analysis report, the NRC staff requests that the RAI response include the proposed changes.

thanks,

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

**Hearing Identifier:** ComanchePeak\_COL\_Public  
**Email Number:** 632

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**Subject:** Comanche Peak RCOL Section 17.5 - RAI # 79 - Quality Assurance  
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**Received Date:** 9/25/2009 1:40:36 PM  
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RAI 2996 (RAI 79).doc	43514	

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Request for Additional Information (RAI) No. 2996

RAI # 79

9/25/2009

Comanche Peak Units 3 and 4  
Luminant Generation Company, LLC.  
Docket No. 52-034 and 52-035

SRP Section: 17.5 - Quality Assurance Program Description - Design Certification, Early Site Permit  
and New License Applicants  
Application Section: 17.5

QUESTIONS for Quality and Vendor Branch 1 (AP1000/EPR Projects) (CQVP)

17.5-1

NUREG-0800, Standard Review Plan 17.5 "Quality Assurance Program Description- Design Certification, Early Site Permit and New License Applicants," establishes criteria that the NRC staff intends to use to evaluate whether an applicant meets the NRC's regulations.

Section 17.3, Quality Assurance Program," of the FSAR states, in part, that Luminant may delegate, and has delegated to others, the work of establishing and executing the quality assurance program (QAP). In addition, the FSAR states, in part, that Luminant contracted with Mitsubishi Nuclear Energy Systems, Inc. (MNES) to develop the COLA, including conducting site characterization activities. Please identify all other parties Luminant has delegated responsibility for establishing and executing the QAP, and provide a detailed description of the scope of these activities.

17.5-2

Pursuant to 10 CFR 52.79(a)(41), combined license (COL) applicants must provide an evaluation of the facility against the Standard Review Plan (SRP) revision in effect 6 months before the docket date of the application. Where differences exist, the applicant's evaluation must discuss how the proposed alternative provides an acceptable method of complying with the Commission's regulations, or portions thereof, that underlie the corresponding SRP acceptance criteria. Regulatory Guide (RG) 1.206, Section C.I.17.5.3, states that COL applicants may use an existing quality assurance program description (QAPD) that the NRC has approved for current use for either or both phases of its QAPD submittal, provided that the applicant identifies and justifies alternatives to, or differences from, the SRP in effect 6 months prior to the docket date of the application.

Section 17.3, Quality Assurance Program," of the Comanche Peak Nuclear Power Plant (CPNPP), FSAR states, in part, That CPNPP Units 3 and 4 activities, up through issuance of the COL, is governed by the Luminant "NuBuild Quality Assurance Project Plan" (NuBuild QAPP), which is based on the CPNPP QAP for CPNPP, Units 1 and 2. Furthermore, Section 17.5.3 of the CPNPP FSAR states, in part, that Luminant will utilize the existing NRC approved QAP for CPNPP Units 1 and 2 for the design, construction, and operation phases. While, FSAR Section 17.5.3, identifies the differences between the CPNPP QAP and the current SRP it does not provide a

justification for these differences. FSAR, Table 1.9-218, 'Conformance with Standard Review Plan Chapter 17 Quality Assurance and Reliability Assurance,' states that the FSAR Position is acceptable with regards to NUREG-0800, Standard Review Plan (SRP), Section 17.3. Pursuant to 10 CFR 52.79(a)(41), please provide the evaluation of the existing Luminant QA program against the acceptance criteria in SRP 17.3 and SRP 17.5, 'Quality Assurance Program Description-Design Certification, Early Site permit and New License Applicants,' and specifically provide justification for any identified differences.

#### 17.5-3

Chapter 17.3 of the combined license application (COLA) FSAR refers to (1) the Luminant "NuBuild Quality Assurance Project Plan" (NuBuild QAPP), (2) the existing U.S. Nuclear Regulatory Commission (NRC) approved QAP for Comanche Peak Nuclear Power Plant, Units 1 and 2, (3) the Mitsubishi Nuclear Energy Systems (MNES) Quality Assurance Program Description(QAPD), SQ-QD-070001, (4) the American National Standards Institute/American Society of Mechanical Engineers(ANSI/ASME) N45.2-1971, "Quality Assurance Program Requirements for Nuclear Facilities," and (5) ASME NQA-1-1994, "Quality Assurance Requirements for Nuclear Facility Applications." However, these documents are not listed in COLA FSAR Section 17.3.1, "References." Please add all documents discussed in COLA FSAR Section 17.3 of the CP COLA to the references in FSAR Section 17.3.1.

#### 17.5-4

NUREG-0800, Standard Review Plan Section 17.5 "Quality Assurance Program Description-Design Certification, Early Site Permit and New License Applicants," establishes criteria that the NRC staff intends to use to evaluate whether an applicant meets the NRC's regulations.

Combined license application (COLA), FSAR Table 1.9-201, "Comanche Peak Nuclear Power Plant, Units 3 and 4 Conformance with Division 1 Regulatory Guides," lists Luminant's conformance with NRC Regulatory Guides (RGs) and provides any exceptions to conformance with those RGs. For those RGs that describe quality assurance-related requirements, Table 1.9-201 appears to address the conformance of the quality assurance program description (QAPD) provided in Part 11, 'Quality Assurance Program Description,' of the COLA. However, since Luminant is relying on its existing quality assurance program for activities prior to COL issuance, please clarify how COLA FSAR Table 1.9-201 also addresses the existing Luminant quality assurance program's conformance to the applicable RGs, or justify an alternative approach.

17.5-5

NUREG-0800, Standard Review Plan Section 17.5 "Quality Assurance Program Description-Design Certification, Early Site Permit and New License Applicants," establishes criteria that the NRC staff intends to use to evaluate whether an applicant meets the NRC's regulations.

FSAR Section 17.3 states that the Luminant NuBuild Quality Assurance Program (QAP) will transition to the "Comanche Peak Nuclear Power Plant, Units 3 and 4 Quality Assurance Program Description" upon issuance of the COL and as the project progresses. In order to plan NRC inspections of these activities, please clarify the expected scope, locations, and schedules for design activities to be conducted by Luminant and MNES as well as any others designated by Luminant from the date of docketing until issuance of the COL.

17.5-6

NUREG-0800, Standard Review Plan Section 17.5 "Quality Assurance Program Description-Design Certification, Early Site Permit and New License Applicants," establishes criteria that the NRC staff intends to use to evaluate whether an applicant meets the NRC's regulations.

Section 17.3 of the combined license application (COLA) FSAR states, in part, that the Quality Assurance Program Description (QAPD) discussed in Section 17.5 of the FSAR will become effective upon issuance of the COL and as the project progresses. COLA FSAR Table 13.4-201, Operational Programs Required by NRC Regulations, states that the QA program – operation, which is discussed in FSAR section 17.5, will be implemented 30 days prior to the scheduled date for the initial loading of fuel. Since the QAPD discussed in Section 17.5 of the FSAR applies to construction/pre-operation and operation of Comanche Peak Nuclear Power Plant, Units 3 and 4, provide clarification as to when the QAPD discussed in FSAR section 17.5 will be actually implemented.

17.5-7

Regulatory Guide (RG) 1.28, Rev. 3, "Quality Assurance Program Requirements (Design and Construction)" describes a method acceptable to the NRC staff for complying with the provisions of Appendix B to 10 CFR Part 50 with regard to establishing and implementing the requisite program for the design and construction phase of nuclear power plants. Please describe how your current QAPD and the NuBuild QAPP satisfies the regulatory position established in RG 1.28, Section C.

17.5-8

NUREG-0800, Standard Review Plan Section 17.5 "Quality Assurance Program Description-Design Certification, Early Site Permit and New License Applicants," establishes criteria that the NRC staff intends to use to evaluate whether an applicant meets the NRC's regulations.

Section 17.3, Quality Assurance Program," of the FSAR states, in part, that Comanche Peak Nuclear Power Plant (CPNPP), Units 3 and 4 activities, up through issuance of the COL, is governed by the Luminant "NuBuild Quality Assurance Project Plan" (NuBuild QAPP), which is based on the CPNPP QAP for CPNPP, Units 1 and 2. Furthermore, Section 17.5.3 of the FSAR states, in part, that Luminant will utilize the existing NRC approved Quality Assurance Plan (QAP) for CPNPP, Units 1 and 2 for the design, construction, and operation phases. Section 17.3 also states, in part, that Luminant will implement the "Comanche Peak Nuclear Power Plant, Units 3 and 4 Quality Assurance Program Description." These statements seem to be in conflict with each other as to which QAP is in effect for the design, construction and operation of the facility prior to and after COL issuance. Please provide clarification as to scope and use of each of these referenced documents.

17.5-9

Part IV, Regulatory Commitments, of the Luminant's quality assurance program description (QAPD), identifies the NRC Regulatory Guides and other quality assurance standards that have been selected to supplement and support the Luminant QAPD. However RG 1.8, "Qualification and Training of Personnel for Nuclear Power Plants," Revision 3, RG 1.28, "Quality Assurance Program Requirements (Design and Construction)," Revision 3, and RG 1.33, "Quality Assurance Program Requirements (Operation)," Revision 2 are not identified on the list. Luminant is requested to revise the QAPD Part IV to commit to RG 1.8, RG 1.28, and RG 1.33, or justify their exclusion.

17.5-10

NUREG-0800, Standard Review Plan Section 17.5 "Quality Assurance Program Description-Design Certification, Early Site Permit and New License Applicants," establishes criteria that the NRC staff intends to use to evaluate whether an applicant meets the NRC's regulations.

NEI 06-14A, 'Quality Assurance Program Description,' Revision 5 (May 2008), Section 2.3, states that the COL application will be annotated to identify site-specific design basis activities. This section was omitted from the QAPD. Luminant should identify the site-specific design basis activities, consistent with the guidance in NEI 06-14A, or justify its omission.