Lent, Susan

From: Singal, Balwant
Sent: Thursday, April 18, 2013 10:32 AM
To: Hope, Timothy
Cc: Ervin-Walker, Tamera
Subject: Request for Additional Information - License amendment Request (LAR) 12-007 (TACs MF0405 and MF0406)
Attachments: MF0405-RAI.docx

Tim,

By letter dated December 19, 2012, (Agencywide Documents Access and Management System (ADAMS) Accession No. ML13023A237), Luminant Generation Company LLC, (Luminant) submitted license amendment request (LAR) 12-007 for the U.S. Nuclear Regulatory Commission (NRC) review and approval. The licensee requested approval for revision to Technical Specification (TS) 3.8.1, "AC Sources – Operating" for two 14-day completion times for the offsite sources for Comanche Peak Nuclear Power Plant (CPNPP), Unit 1 and 2.

Based on the initial review of your application, the NRC staff has the attached request for additional information (RAI) for completing its review.

Draft RAI were transmitted on April 12, 2013 and clarification call was held on April 18, 2013. Please treat this e-mail as formal transmittal of RAI. Ms. Tamera J. Ervin-Walker of Luminant agreed to provide the response within 30 days from the date of this e-mail.

Please let me know if you have any questions.

Thanks.

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Draft Request for Additional Information

Regarding Two, 14-Day, One-Time, Completion Times for Offsite Circuits

Luminant Generation Company, LLC

Comanche Peak Nuclear Power Plant, Units 1 and 2

(TAC Nos. MF0405 and MF0406)

The U.S. Nuclear Regulatory Commission (NRC) staff has reviewed the Luminant Generation Company LLC License Amendment Request (LAR) dated December 19, 2012 (Agencywide Documents Access ad management System (ADAMS) Accession No. ML13023A237). Based on its review of the LAR, the staff requests the following additional information:

Request for Additional Information (RAI):

RAI - 1:

In the LAR Attachment 1, Section 2.0, Page 3, the following is stated:

> The proposed changes in Chapters 8 and 9 of the Final Safety Analysis Report (FSAR) (Reference 8.1) (Attachment 6) reflect ST [startup transformer] XST1, new alternate ST XST1A, new 138 kV [kilo volt] tower disconnect switches, firewall, and the installation of new cable buses and transfer panels. The FSAR Table and Figures not shown in the Attachment, but which will also be updated, are Table 8.3-3 and Figures 1.2-1, 8.2-1, 8.2-4, 8.2-7, 8.2-9, and 8.2-11.

Please provide the following documents:

(a) Markup/update of the FSAR Figures 1.2-1, 8.2-1, 8.2-4, 8.2-7, 8.2-9, 8.2-11, and 8.3-1 (Drawing No. E1-0001) (or a relevant portion of the figures/drawings) showing the modifications.

(b) Markup of the FSAR Table 8.3-3.

RAI - 2:

In the LAR Attachment 1, Section 4.1, Page 15, the licensee stated that the plant procedure SOP-614A/B "Alternative Power Generator Operations" requires the Alternate Power Diesel Generator (APDG) fuel be replenished every two hours.

Please describe how the APDG fuel will be replenished every two hours, if needed, throughout any of two 14-day Completion Times (CTs).

RAI - 3:

Please provide the following drawings related to the APDG sets:

(a) Drawing(s) showing layout of major enclosures/components of the APDG sets, and describe the cable routing from the APDG sets to the plant Class 1E 6.9 kV buses.

(b) A single line diagram showing connections of the APDG sets to the plant 6.9 kV Class 1E buses.

RAI - 4:

Please describe whether any dedicated operator will be assigned to ensure proper operation of the APDGs, during the proposed two 14-day CTs.

RAI - 5

In the LAR Attachment 1, Section 4.1, Page 15, the licensee stated that each APDG set consist of three diesel generators operating in parallel at 480 volts (V), 3 phase and 60 hertz (Hz). Each APDG is rated at 1140 kilowatts (kW) with output connected in parallel for a total capacity of 3420 kW and is connected to the Class 1E 6.9 kV bus through a 480 V/6.9 kV transformer. The loading of APDG set will be limited by the transformer capacity of 3450 kVA. The total of the unit-specific loads required to be fed from APDGs as shown in Page 16, Table 4, is 3010.29 kW.

Please provide total unit-specific load in kVA [kilovolt-ampere] (considering power factor of loads) to verify that the loading will remain within the connected transformer rating of 3450 kVA. Also, please provide a discussion if any common load may be necessary to be powered from the unit APDG set for safe shutdown and long term cooling of the unit.

RAI - 6

Please describe whether each APDG set consisting of 3 DGs, each rated 1140 kW, will be provided with load sharing mechanism so that the kW and kVAR [kilovolt-ampere-reactive] loading is shared equally among the 3 DGs.

RAI - 7

In the LAR Attachment 1, Section 4.1, Page 27, the licensee stated:

> CPNPP's [Comanche Peak Nuclear Power Plant's] Operations Department will contact the Transmission Operator (Transmission Grid Controller) once per day during a 14-day Completion Time to ensure no problems exist in the transmission lines feeding CPNPP or their associated switchyards that would cause post trip switchyard voltages to exceed the voltages required by STA-629.

Please provide relevant portion of the STA-629 document which provides the required post trip switchyard voltages.

RAI - 8

In the LAR Attachment 1, Section 4.2, Page 30, the licensee stated

> In the two weeks prior to the start of the CT, a thermographic survey will be conducted on the two fixed sources in the safeguards switchgear room to verify no abnormalities exist. This is to reduce the likelihood of a fire ignition.

Please provide a description of two fixed sources in the safeguards switchgear room.

RAI - 9

Please describe the precautions which will be taken to prevent any fire-hazards due to any diesel fuel oil leakage/spillage associated with the APDG sets.