

December 3, 2009

MEMORANDUM TO: Hossein Hamzehee, Chief
US-APWR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

FROM: Stephen Monarque, Project Manager */RA/*
US-APWR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

SUBJECT: AUDIT REPORT: JULY 7 - 9, 2009, HYDROLOGY SITE SAFETY
AUDIT OF THE COMANCHE PEAK NUCLEAR POWER PLANT,
UNITS 3 AND 4 COMBINED LICENSE APPLICATION

This report summarizes the U.S. Nuclear Regulatory Commission (NRC) staff's hydrology site safety audit conducted July 7 - 9, 2009, at the Comanche Peak Nuclear Power Plant (CPNPP) in Somervell County, Texas. This audit was performed in support of the NRC staff's review of the CPNPP, Units 3 and 4 Combined License (COL) Application, Part 2, Final Safety Analysis Report Chapter 2, "Site Characteristics," Section 2.4, "Hydrologic Engineering." Enclosure 1 lists the Site Audit Participants. Enclosure 2 is the Daily Summary of Activities. Enclosure 3 is "Table 1: Discussion of Information Needs for Hydrology Safety Audit," and Enclosure 4 shows the List of Documents Made Available to the NRC staff.

On July 7, 2009, the NRC staff began its audit with a tour of the CPNPP facilities within the licensee controlled area. The NRC staff toured the site of the proposed evaporation pond, the existing waste and low-volume water retention ponds, the on-site production wells, and the boundary of CPNPP, Units 1 and 2 facilities. The tour did not enter any protected areas. In addition, Luminant Generation Company, LLC (Luminant) provided the NRC staff with an overview of the Squaw Creek Reservoir, the exposed cut showing the Glen Rose formation near the intake pumping station, the proposed centerline locations of CPNPP, Units 3 and 4, and the proposed locations of CPNPP, Units 3 and 4 ultimate heat sink cooling towers.

After the site tour, the NRC staff discussed the surface water information needs with Luminant. Refer to Table 1, Serial Numbers 1 through 32 in Enclosure 3. The Information Needs column in Table 1 was provided to Luminant before the site audit. The outcome of the NRC staff's discussion with Luminant is presented in the Table 1 column titled "Outcome of Discussion on Information Needs." The Table 1 column titled "Status of Information Need Audit" discusses the resolution of the NRC staff's observations or issues.

Docket Nos.: 52-034 and 52-035

Enclosures:
As Stated

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(Revised 11/19/2009)

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