July 31, 2008

APPLICANTS: MITSUBISHI NUCLEAR ENERGY SYSTEMS AND LUMINANT

FACILITY: COMANCHE PEAK COMBINED OPERATING LICENSE APPLICATION

SUBJECT: SUMMARY OF THE JULY 1, 2008 PUBLIC MEETING BETWEEN THE US-APWR DESIGN CENTERED WORKING GROUP AND THE U.S. NUCLEAR REGULATORY COMMISSION

On July 1, 2008, a Category 2 public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) staff and members of the US-APWR Design Centered Working Group (DCWG) at NRC Headquarters in Rockville, Maryland. This was the fifth US-APWR DCWG meeting. The purpose of the meeting was to discuss water rights, financial qualifications, risk managed technical specifications and security issues for Comanche Peak. A list of meeting attendees is provided as Enclosure 1. Luminant presented handouts which are shown in Enclosures 2 and 3. These handouts can be accessed through the Agencywide Documents Access and Management System (ADAMS) Accession Numbers ML081920590 and ML081920330.

Water Use Plan and Presence of Total Dissolved Solids at Lake Granbury

Luminant opened the meeting by presenting a water use plan for Lake Granbury. Lake Granbury is a public water supply reservoir that provides make up supply to Squaw Creek Reservoir. The Brazos River supplies water to Lake Granbury. The upstream part of the Brazos River exhibits elevated total dissolved solids (TDS) level, which affects the TDS levels in Lake Granbury. The Texas Commission on Environmental Quality (TCEQ) has identified Lake Granbury an impaired water source for chlorides, based on testing that was conducted several years ago. Luminant's plan for the new circulating water system is to receive make-up cooling water from Lake Granbury and return the effluent to Lake Granbury. Because Lake Granbury is an impaired water source, Luminant is concerned that TCEQ may impose a TDS limit on the effluent to Lake Granbury. This TDS limit would determine the specific treatment strategy for the effluent returning to Lake Granbury. Because Luminant plans to use cooling towers as part of the circulating water system, these cooling towers will increase the amount of TDS levels in the Lake Granbury. In an effort to determine the amount of this increase, Luminant used the Freese and Nichols model to examine long term water availability and TDS levels at Lake Granbury, with and without the new units at Comanche Peak. This model determined that use of the cooling towers for the new units would raise the TDS level by about 400 milligram/liter.

After Luminant's presentation, the NRC staff provided feedback on several issues. The NRC staff asked if the current water permit addressed TDS levels to Lake Granbury. Luminant responded that while there is TDS limit for the current water permit, the Comanche Peak operating plant has never had to return water to the Lake Granbury. Consequently, Luminant was hoping to apply the credits from this current TDS limits to the new TDS limits. In response to another question, Luminant stated they did not know what percent of the effluent would have to be treated since the design concepts and treatment standards have not yet been established. The NRC staff requested that Luminant consider the impact of global warming and climate change in the Environmental Report. The NRC staff asked if Lake Granbury was considered a navigable waterway, and Luminant replied that it was a navigable waterway.

Finally, The NRC staff recommended that Luminant utilize the most conservative water model in its Environmental report and Final Safety Analysis Report.

Financial Qualifications

Luminant conducted a brief presentation on the amount of information they plan to provide in the combined license application. The NRC provided feedback and indicated the level of information they expect to see in the combined license (COL) application.

Regulatory Guide 4.21, "Minimization of Contamination and Radioactive Waste Generation: Life-Cycle Planning"

The NRC staff gave a presentation on RG 4.21. RG 4.21 replaces Draft Guide-4012. The NRC staff stated that the agency has recently conducted training classes for its employees, thus the NRC staff is aware of the implications on the design certification (DC) and COL applications. Luminant indicted they have been following the development of this RG through industry meetings. The NRC staff stated that requests for additional information are being developed for current DC applications and that the US-APWR DC should expect to receive some RAIs in the near future.

Description of Risk Managed Technical Specifications in DC and COL

The NRC staff and Luminant had previously discussed Risk Managed Technical Specifications (RMTS) Initiatives 4b and 5b during the April 2008 DCWG meeting. Luminant had presented a phased approach for demonstrating that their probabilistic risk assessment (PRA) model met the NRC-approved guidelines. According to the proposed approach, during design certification phase, the conformance of the PRA model with Capability Category 2 for the supporting ASME requirements will be demonstrated to the extent applicable to US-APWR standard design PRA. The remaining items (e.g., those related to the site and plant specific conditions determined at the construction and operation stages) will be identified as COL actions in the US-APWR DC. During the July 1, 2008, meeting, the NRC staff stated that the applicant should proceed at this time with the implementation of the approach proposed during the April 2008 meeting. This includes providing information to the NRC staff demonstrating the conformance of the PRA model with Capability Category 2 for those supporting ASME requirements that are applicable to the standard design PRA and identifying appropriate COL actions for the remaining items. The NRC staff mentioned that a peer review as well as a NRC staff audit of the as-built plant PRA model should be performed before it can be used to support RMTS applications, such as Initiatives 4b and 5b. Luminant indicated that the PRA model will continue to develop as design and construction proceeds in the new plant and suggested the establishment of acceptance criteria for the proposed RMTS initiatives in an ITAAC. Luminant also suggested the use of brackets in the DC application for TS to give the COL applicant the option to implement RMTS initiatives.

Then, the NRC staff stated that they needed to review SECY-05-0197, "Review of Operational Programs in a Combined License Application and Generic Emergency Planning Inspections, Tests, Analyses, and Acceptance Criteria," to determine the specific PRA issues that should be reviewed as ITAACs or license conditions and whether these issues are for the DC or COL.

At the conclusion of this meeting, the NRC staff informed Luminant that another DCWG meeting may be needed to discuss how the PRA criteria could be satisfied and when the NRC staff could complete their review.

Conclusion

Members of the public were in attendance, but Public Meeting Feedback forms were not received. Please direct any inquiries to me at 301-415-1544, or stephen.monarque@nrc.gov.

/RA/

Stephen Raul Monarque
US-APWR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

Enclosures:
1. List of Attendees
2. US-APWR Design Centered Working Group Meeting With NRC (ML081920590)
3. Security for US-APWR and CPNPP 3 and 4 (ML081920330)

cc w/encls: See next page

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DATE	7/30/08	7/31/08

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Attendees

Public Meeting to Discuss

US-APWR Design Centered Working Group for Comanche Peak COLA

July 1, 2008

Name	Affiliation
Don Woodlan	Luminant
Al Tardiff	NRC/NSIR
Bobby Bird	Luminant
John T. Conly	Luminant
Gabe Salamon	Enercon Services
Bob Evans	Enercon Services
Larry Burkhart	NRC/NRO
John T Conly	Luminant Power
Bob Berstein	United Research Services
Jon Wiegand	United Research Services
Tim Gilder	Luminant Power
Nick Saltos	NRC
Lynn Mrowca	NRC/NRO/DSRA
William Ward	NRC/NRO
C. K. Paulson	Mitsubishi Nuclear Energy Systems (MNES)
Daniel Shulman	MNES
Masanori Onozuka	MNES
Mike Takacs	NRC/NRO/DNRL
D. R. Algama	MNES
Theresa Clark	NRC/NRO/DSRA/SPLA
Don Dube	NRC/NRO
Jeff Ciocco	NRC
Jin Chung	NRC
Hikaru Ogasuraia	MNES
Bob Tjader	NRC/NRO/DCIP/CTSB
Suzanne Schroer	NRC/NRO/DSRA/SPLA
Katsuya Kuroiwa	Mitsubishi Heavy Industries (MHI)
James Biggins	NRC/OGC
Keiko Chitose	MNES
Etsuro Saji	MHI
Ryusuke Haraguchi	MHI
Katsanori Kawai	MNES
Masanori Onozuka	MNES
Masahiko Kaneda	MNES
Stephen Monarque	NRC/NRO/DNRL

Enclosure 1

Public Meeting to Discuss

US-APWR Design Centered Working Group for Comanche Peak COLA

July 1, 2008

Name	Affiliation
AJ DuBouchet	NRC/NRO
Renaldo Jenkins	NRC/NRO/DE/EEB
Ngola Otto	NRC/NRO/DNRL
Mitch Lucas	Luminant
T. R. Tjader	NRC/NRO/DCIP/CTSB
Peter Hearn	NRC/NRO/DNRL
William McConaghy	Toshiba
Mike Magee	NRC/NRO/DNRL
Nebiyu Tiruneh	NRC/NRO
JoAnn Simpson	NRO/NRR/DPR/PFPB
Mike Dusaniwskyj	NRC/NRR/DPR/PFPB
Bruce Turner	Luminant Power
Tim Clouser	Luminant Power
Matt Weeks	Luminant Power
John Lai	NRC/NRO/DSRA/SPLB
Michael Marshall	NRC/NRO/DCIP/CTSB
Mike Laggart	Enercon
Chris Byerman	Enercon
David Godshalk	Enercon
Sherry Bernhoft	MNES
David Lange	MNES
Michael Willingham	NRC/NRO/DSER
Jim Gaslevic	NRC/NRO/DCIP/CCIB
Paul Gaukler	PWSP
Bruce Musico	NRC/NSIR/DPR
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Stephen Floyd	ERIN
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