

December 14, 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: JUNE 23 - 24, 2009, HEALTH PHYSICS AUDIT
OF THE COMANCHE PEAK NUCLEAR POWER PLANT, UNITS 3
AND 4 COMBINED LICENSE APPLICATION

By letter dated September 19, 2008, as supplemented by letters dated November 4, 5, 6, and 10, 2008, and December 18, 2008, Luminant Generation Company, LLC (Luminant) submitted its combined license (COL) application to the U.S. Nuclear Regulatory Commission (NRC) for two United States - Advanced Pressurized Water Reactors in accordance with the requirements contained in Title 10 of the *Code of Federal Regulations* (10 CFR) Part 52, "Licenses, Certifications, and Approvals for Nuclear Power Plants." In support of the NRC staff's review of the Comanche Peak Nuclear Power Plant (CPNPP) COL application, the NRC staff conducted a Health Physics Site Safety Audit on June 23 - 24, 2009, at the CPNPP in Somervell County, Texas. The NRC staff requested this audit in order to review additional documents related to Luminant's effluent release and dose calculations, and interim waste storage facility designs. The audit was also requested in order to gather the information necessary for the performance of NRC staff confirmatory calculations and design reviews that pertain to CPNPP, Units 3 and 4 COL final safety analysis report (FSAR) safety evaluation.

This report summarizes the NRC staff's Health Physics Site Safety Audit that was performed in support of the NRC staff's review of the CPNPP, Units 3 and 4 COL application, Part 2, FSAR Chapter 11, "Radioactive Waste Management System" and Chapter 12, "Radiation Protection."

Pursuant to 10 CFR 2.390, the NRC staff has determined that the enclosures may contain proprietary information that should be withheld from public disclosure. The NRC staff will delay placing this document into the public document room for a period of 20 days from the date of this memorandum to provide Luminant with an opportunity to comment on information in the enclosures that should be withheld from public disclosure. The NRC staff will notify Luminant that if Luminant believes that any information in the enclosures should be withheld from public disclosure, Luminant should identify such information line by line and define the basis pursuant to 10 CFR 2.390.

CONTACT: Stephen Monarque, NRO/DNRL/NMIP
301-415-1544

H. Hamzehee

- 2 -

The Health Physics Site Audit Report is shown as Enclosure 1. Enclosure 2 lists the Attendees at the NRC Health Physics Audit. Enclosure 3 is a List of Documents Available to the NRC Staff. Finally, Enclosure 4 is the NRC Staff's Observations and Issues on Health Physics Audit.

Docket Nos. 52-034 and 52-035

Enclosures:

As stated

cc w/ Enclosures: Donald Woodlan, Manager
Nuclear Regulatory Affairs
P.O. Box 1002
Glen Rose, TX 76043
donald.woodlan@luminant.com

H. Hamzehee

- 2 -

The Health Physics Site Audit Report is shown as Enclosure 1. Enclosure 2 lists the Attendees at the NRC Health Physics Audit. Enclosure 3 is a List of Documents Made Available to NRC Staff. Finally, Enclosure 4 is The U.S. Nuclear Regulatory Commission Health Physics Audit Issues.

Docket Nos. 52-034 and 52-035

Enclosures:
As stated

cc w/ Enclosures: Donald Woodlan, Manager
Nuclear Regulatory Affairs
P.O. Box 1002
Glen Rose, TX 76043
donald.woodlan@luminant.com

DISTRIBUTION:

PUBLIC	RidsNroDnrlNmip	RidsNroDnrl
NMIP R/F	RidsNroLACSmith	RidsAcrsAcnwMailCenter
D090	RidsOgcMailCenter	TFrye, NRO
SMonarque, NRO	RidsNroDserRsac	RClement, NRO
RLaVera, NRO	DDodson, NRO	

ADAMS ACCESSION NUMBER: ML092220720; Package: ML092730519

NRR-105

OFFICE	DNRL/NMIP: PM	DNRL/NMIP: LA	DCIP/CHPB: BC	DSRA/SBPA: BC	OGC	DNRL/NMIP: LA
NAME	SMonarque	CSmith	TFrye	JSegala	SVrahoretis	CSmith
DATE	08/27/09	10/15/09	09/07/09	09/16/09	11/19/09	11/17/09
OFFICE	DNRL/NMIP: BC					
NAME	HHamzehee					
DATE	11/19/09					

OFFICIAL RECORD COPY

COL - Comanche Peak Mailing List
cc:

(Revised 11/19/2009)

Certrec Corporation
CPNPP 34 LRS
4200 South Hulen Street
Suite 422
Fort Worth, TX 76109

Ms. Michele Boyd
Legislative Director
Energy Program
Public Citizens Critical Mass Energy
and Environmental Program
215 Pennsylvania Avenue, SE
Washington, DC 20003

Director
Division of Compliance & Inspection
Bureau of Radiation Control
Texas Department of State Health Services
1100 West 49th Street
Austin, TX 78756-3189

COL - Comanche Peak Mailing List

Email

APH@NEI.org (Adrian Heymer)
awc@nei.org (Anne W. Cottingham)
bfine@co.hood.tx.us (Brian Fine)
bfine@co.hood.tx.us (Brian Fine)
Bill.Moore@luminant.com (Bill Moore)
BrinkmCB@westinghouse.com (Charles Brinkman)
brock.degeyter@energyfutureholdings.com (Brock Degeyter)
chris.maslak@ge.com (Chris Maslak)
cindy@seedcoalition.org (Cindy)
ck_paulson@mnes-us.com (Keith Paulson)
cp34update@certrec.com (CPNPP LRS)
CumminWE@Westinghouse.com (Edward W. Cummins)
cwaltman@roe.com (C. Waltman)
david.lewis@pillsburylaw.com (David Lewis)
Dennis.Buschbaum@luminant..com (Denny Buschbaum)
Derlinda.Bailey@chguernsey.com (Derinda Bailey)
derrell.mccravey@co.somervell.tx.us (Somervell County Chief Deputy Derrell McCravey)
donald.woodlan@luminant.com (Donald Woodlan)
eliza.seedcoalition@gmail.com (Elza Brown)
Fred.Madden@luminant.com (Fred Madden)
gedgar@morganlewis.com (George Edgar)
gzinke@entergy.com (George Alan Zinke)
JCaldwell@luminant.com (Jan Caldwell)
Jean.Amundson@luminant.com (Jean Amundson)
jeff.simmons@energyfutureholdings.com (Jeff Simmons)
jgutierrez@morganlewis.com (Jay M. Gutierrez)
jim.riccio@wdc.greenpeace.org (James Riccio)
JJNesrsta@cpsenergy.com (James J. Nesrsta)
John.Conly@luminant.com (John Conly)
John.O'Neill@pillsburylaw.com (John O'Neill)
Joseph_Hegner@dom.com (Joseph Hegner)
joseph_tapia@mnes-us.com (Joseph Tapia)
karen@seedcoalition.org (Karen Hadden)
KSutton@morganlewis.com (Kathryn M. Sutton)
kwaugh@impact-net.org (Kenneth O. Waugh)
lchandler@morganlewis.com (Lawrence J. Chandler)
lon.burnam@house.state.tx.us (Lon Burnam)
Marc.Brooks@dhs.gov (Marc Brooks)
maria.webb@pillsburylaw.com (Maria Webb)
mark.beaumont@wsms.com (Mark Beaumont)
Mark.Crisp@chguernsey.com (Mark Crisp)
masanori_onozuka@mnes-us.com (Masanori Onozuka)
matias.travieso-diaz@pillsburylaw.com (Matias Travieso-Diaz)
mayorsouthern@granbury.org (Mayor David Southern)

COL - Comanche Peak Mailing List

media@nei.org (Scott Peterson)
mike.blevins@luminant.com (Mike Blevins)
mike_moran@fpl.com (Mike Moran)
mjohnson@citizen.org (Matt Johnson)
mlucas3@luminant.com (Mitch Lucas)
MSF@nei.org (Marvin Fertel)
nirsnet@nirs.org (Michael Mariotte)
patriciaL.campbell@ge.com (Patricia L. Campbell)
paul.gaukler@pillsburylaw.com (Paul Gaukler)
Paul@beyondnuclear.org (Paul Gunter)
plarimore@talisman-intl.com (Patty Larimore)
pshastings@duke-energy.com (Peter Hastings)
rbird1@luminant.com (Bobby Bird)
rdeeds@co.hood.tx.us (Hood County Sheriff Roger Deeds)
RJB@NEI.org (Russell Bell)
RKTemple@cpsenergy.com (R.K. Temple)
sabinski@suddenlink.net (Steve A. Bennett)
sandra.sloan@areva.com (Sandra Sloan)
sfrantz@morganlewis.com (Stephen P. Frantz)
shinji_kawanago@mnes-us.com (Shinji Kawanago)
stephan.moen@ge.com (Stephan Moen)
tgilder1@luminant.com (Tim Gilder)
tmatthews@morganlewis.com (T. Matthews)
Vanessa.quinn@dhs.gov (Vanessa Quinn)
VictorB@bv.com (Bill Victor)
Wanda.K.Marshall@dom.com (Wanda K. Marshall)