Comanche Peak Nuclear Power Company Units 3 and 4

COL Application

Part 1

Administrative and Financial Information Revision 1

(Public Version)

TABLE OF CONTENTS

1.0	INTRODUCTION	.7
1.1	LICENSE ACTIONS REQUESTED	. 8
1.2	GENERAL INFORMATION	
	1.2.1 Applicants	.9
	1.2.2 Corporate Parents of the Applicants	. 10
	1.2.3 Description of Business or Occupation	. 13
	1.2.4 Organization and Management	. 14
	1.2.5 Regulatory Agencies with Jurisdiction over Rates and Services	. 14
	1.2.6 Trade and News Publications	. 15
1.3	FINANCIAL QUALIFICATIONS	. 16
1.4	DECOMMISSIONING FUNDING ASSURANCE	. 18
1.5	FOREIGN OWNERSHIP OR CONTROL	. 18

List of Figures:

- Figure 1.2-1 Simplified Ownership Diagram
- Figure 1.2-2 Simplified Corporate Structure Diagram

List of Tables

- Table 1.2-1
 Energy Future Holdings Corp. (EFH) Directors
- Table 1.2-2 EFH Executives
- Table 1.2-3
 Texas Electric Competitive Holdings (TCEH) Board of Managers
- Table 1.2-4
 Luminant Holding Company (LHC) Board of Managers
- Table 1.2-5
 Luminant Generation Company LLC (Luminant) Board of Managers
- Table 1.2-6Luminant Officers
- Table 1.2-7
 Nuclear Energy Future Holdings LLC (NEFH) Board of Managers
- Table 1.2-8 NEFH Officers
- Table 1.2-9 Nuclear Energy Future Holdings II LLC (NEFH II) Board of Managers
- Table 1.2-10 NEFH II Officers
- Table 1.2-11 Mitsubishi Heavy Industries, Ltd. (MHI) Directors
- Table 1.2-12 MHI Officers
- Table 1.2-13 MHI Nuclear North America, Inc. (MHI-NNA) Directors
- Table 1.2-14 MHI-NNA Officers
- Table 1.2-15 Comanche Peak Nuclear Power Company LLC (CPNPC) Board of Managers
- Table 1.2-16 CPNPC Officers
- Table 1.2-17 Trade and News Publications
- Table 1.3-1a Financial Plan, Rev. 1 (Proprietary)
- Table 1.3-1b
 Estimate of Construction Costs, Rev. 1 (Proprietary)
- Table 1.3-1c
 Sources and Uses of Funds, Rev. 1 (Proprietary)
- Table 1.3-2
 Operations and Maintenance Costs First Five Years (Proprietary)
- Table 1.3-3
 Plant Performance (Proprietary)
- Table 1.3-4
 Market Price Projection (Proprietary)

Attachment 1 – Decommissioning Study for Units 3 & 4 (Non-Proprietary)

Attachment 2 – Financial Report Links (Non-Proprietary)

List of Abbreviations

EFH	Energy Future Holdings Corp.
EFC Holdings	Energy Future Competitive Holdings Corp (wholly-owned subsidiary of EFH)
ТСЕН	Texas Competitive Electric Holdings (wholly-owned subsidiary of EFC Holdings)
LHC	Luminant Holding Company (wholly-owned subsidiary of TCEH)
Luminant	Luminant Generation Company (wholly-owned subsidiary of LHC)
NEFH	Nuclear Energy Future Holdings (wholly-owned subsidiary of Luminant)
NEFH II	Nuclear Energy Future Holdings II (wholly-owned subsidiary of NEFH)
CPNPC	Comanche Peak Nuclear Power Company LLC (88% owned by Luminant member, NEFH II and 12 % owned by MHI member, NHI-NNA)
МНІ	Mitsubishi Heavy Industries, Ltd.
MHI-NNA	MHI Nuclear North America, Inc. (wholly-owned subsidiary of MHI)
CPNPP 3&4	Comanche Peak Nuclear Power Plant Units 3 & 4 (wholly-owned by CPNPC)
ERCOT	Electric Reliability Council of Texas (Independent System Operator)
PUC	Public Utilities Commission of Texas (Governmental Body)
NEXI	Nippon Export and Investment Insurance
JBIC	Japan Bank for International Cooperation

1.0 INTRODUCTION

Due to the ownership restructuring discussed herein, and the associated changes, Part 1 is being resubmitted in its entirety. Therefore no revision bars will be included in this part.

This Combined License Application (COLA) is submitted by Luminant Generation Company LLC (Luminant) on behalf of itself and Comanche Peak Nuclear Power Company LLC (CPNPC), for the construction and operation of two nuclear-powered baseload generating plants designated as Comanche Peak Nuclear Power Plant Unit 3 and Unit 4 (hereafter referred to as CPNPP 3 & 4). In addition, special nuclear material licenses, by-product material licenses, and source material licenses as required for construction and operation are requested.

CPNPP 3 & 4 will each utilize the Mitsubishi Heavy Industries (MHI) US-Advanced Pressurized Water Reactor (US-APWR) light water reactor design of the 1700 MWe class (4466 MWt). This COLA presents descriptions and analyses of the station design, and incorporates by reference the MHI US-APWR Design Control Document (DCD) currently under review by the NRC.

The Application has been divided into parts as follows:

- Part 1 General and Financial Information
- Part 2 Final Safety Analysis Report
- Part 3 Environmental Report
- Part 4 Plant-Specific Technical Specifications
- Part 5 Emergency Plan
- Part 6 Not Used
- Part 7 Generic DCD Departures Report
- Part 8 Security Plans (under separate cover)
- Part 9 Not Used
- Part 10 Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC)
- Part 11 Attachments

1.1 LICENSE ACTIONS REQUESTED

The purpose of this COLA is to obtain NRC approval to construct and operate two nuclearpowered base load generating units. The units will be located within the existing Luminant Comanche Peak owner controlled area site in Somervell County, Texas. In support of this objective, Luminant and CPNPC, requests the following license actions:

- License Luminant Generation Company LLC (Luminant) pursuant to Section 103 of the Atomic Energy Act of 1954, as amended (hereafter referred to as the Act), and 10 CFR Part 52 to construct and operate Comanche Peak Nuclear Power Plant Unit 3 at the designated location in Somervell County, Texas. It is requested that the term of the license be for a period of 40 years from the date on which the Commission makes a finding that acceptance criteria are met under 10 CFR 52.103(g) or allowing operation during an interim period under the combined license under 10 CFR 52.103(c), and contain provisions that include the applicable licenses under 10 CFR Parts 30, 40, and 70 to receive, possess, and use at any time such quantities of source, byproduct, and special nuclear material as needed to construct and operate the utilization facility.
- License Comanche Peak Nuclear Power Company LLC (CPNPC) pursuant to Section 103 of the Act and 10 CFR Part 52 to possess and use Comanche Peak Nuclear Power Plant Unit 3 at the designated location in Somervell County, Texas. It is requested that the term of the license be for a period of 40 years from the date on which the Commission makes a finding that acceptance criteria are met under 10 CFR 52.103(g) or allowing operation during an interim period under the combined license under 10 CFR 52.103(c).
- License Luminant Generation Company LLC (Luminant) pursuant to Section 103 of the Act and 10 CFR Part 52 to construct and operate Comanche Peak Nuclear Power Plant Unit 4 at the designated location in Somervell County, Texas. It is requested that the term of the license be for a period of 40 years from the date on which the Commission makes a finding that acceptance criteria are met under 10 CFR 52.103(g) or allowing operation during an interim period under the combined license under 10 CFR 52.103(c), and contain provisions that include the applicable licenses under 10 CFR Parts 30, 40, and 70 to receive, possess, and use at any time such quantities of source, byproduct, and special nuclear material as needed to construct and operate the utilization facility.
- License Comanche Peak Nuclear Power Company LLC (CPNPC) pursuant to Section 103 of the Act and 10 CFR Part 52 to possess and use Comanche Peak Nuclear Power | Plant Unit 4 at the designated location in Somervell County, Texas. It is requested that the term of the license be for a period of 40 years from the date on which the Commission makes a finding that acceptance criteria are met under 10 CFR 52.103(g) or allowing operation during an interim period under the combined license under 10 CFR 52.103(c).

1.2 GENERAL INFORMATION

This part of the Combined License Application (COLA) for CPNPP 3 & 4 addresses the requirements of 10 CFR 50.33, "Content of applications; general information," and provides details of the applicant's corporate identity and location; applicant's ownership organizations; the types of licenses being applied for; the applicant's financial qualifications; decommissioning funding assurance; foreign ownership; control, or domination information.

1.2.1 Applicants

The required general information for the applicants is provided below, by company.

Comanche Peak Nuclear Power Company LLC (CPNPC)

CPNPC is a special purpose entity that was created to serve as a vehicle for Luminant's and EFH's (Luminant's ultimate parent) investment in the CPNPP 3 & 4 project. CPNPC is a newly formed company and is focused on the development and funding of CPNPP 3 & 4. CPNPC will own 100% of the new units, CPNPP 3 & 4.

In September 2008, Luminant formed CPNPC as a Delaware Corporation named "Nuclear Project Company LLC". The name was subsequently changed in January 2009 to "Comanche Peak Nuclear Power Company LLC."

At the time CPNPC was formed, Energy Future Holdings Corp. (EFH) through its wholly-owned subsidiary, Luminant, created wholly-owned intermediary holding companies, including the direct parent of CPNPC, Nuclear Energy Future Holding Company II LLC (NEFH II). NEFH II is a Delaware limited-liability company and along with CPNPC are the intermediary companies for Luminant's control and ownership of the project.

On January 30, 2009, Luminant through its subsidiary, NEFH II, entered into an agreement with MHI Nuclear North America, Inc. (MHI-NNA) a wholly-owned subsidiary of Mitsubishi Heavy Industries, LTD. (MHI) to develop up to two nuclear generating units using the MHI US-APWR technology on a site contiguous to Comanche Peak units 1 & 2 located in Somervell and Hood Counties, Texas. The agreement provided MHI-NNA a Delaware limited-liability company a minority member interest (12%) in CPNPC with the controlling interest being held by NEFH II (88%) the wholly-owned subsidiary of Luminant. As part of the agreement, EFH through its wholly-owned subsidiary, Texas Competitive Electric Holdings Company LLC and Mitsubishi Heavy Industries, Ltd. provided performance guarantees for their subsidiaries Luminant and MHI-NNA, respectively.

CPNPC and its members are jointly responsible for the development and funding of CPNPP 3 & 4. The relationship of these companies and their intermediary holding companies is reflected in Figure 1.2-1, "Simplified Ownership Diagram" and Figure 1.2-2, "Simplified Corporate Structure Diagram."

The applicant's corporate address is shown below:

Comanche Peak Nuclear Power Company LLC Lincoln Plaza, 10th Floor 500 North Akard Street Dallas, TX 75201

Luminant Generation Company LLC (Luminant)

Pursuant to the terms of its Development Services Agreement with CPNPC, Luminant is responsible for the administration and development of CPNPP 3 & 4 during the development phase of the project and will be the operator of CPNPP 3 & 4 following construction. It is also the indirect and controlling owner in CPNPC (88%) through its wholly-owned subsidiary NEFH II. Luminant (formerly TXU Generation Company LLC) is the competitive power generation business of EFH and is engaged in electricity generation, development and construction of new generation facilities, wholesale marketing and trading, and mining activities.

Luminant was organized in the State of Texas and is a subsidiary of EFH through a series of wholly-owned subsidiary holding companies. EFH is a Texas corporation and operates its competitive companies through its wholly-owned subsidiary, Energy Future Competitive Holdings Company (EFC Holdings), also a Texas corporation and its wholly-owned subsidiary, Texas Competitive Electric Holdings Company LLC (TCEH), which is a Delaware limited-liability company.

The relationships of these companies, their intermediary holding companies and the state they were organized in are reflected in Figure 1.2-1, "Simplified Ownership Diagram" and Figure 1.2-2, "Simplified Corporate Structure Diagram."

The term "Luminant" shall be used for Luminant Generation Company LLC.

The applicant's corporate address is shown below:

Luminant Generation Company LLC Lincoln Plaza, 14th Floor 500 North Akard Street Dallas, TX 75201

1.2.2 Corporate Parents of Applicants

Energy Future Holdings Corp. – Parent (EFH)

EFH, a Texas corporation, is a Dallas-based holding company that controls a number of subsidiaries engaged in business primarily in the Electric Reliability Council of Texas (ERCOT) region. EFH has both competitive electricity market activities through EFC Holdings and its subsidiary TCEH, and regulated electricity transmission and distribution operations under Oncor Electric Delivery Holdings Company LLC. EFH is a subsidiary of Texas Energy Future Holdings Limited Partnership (Texas Energy LP), which is a Delaware limited partnership formed on February 21, 2007, as the entity through which the KKR and TPG investment funds and their fellow investors acquired TXU Corp on October 10, 2007.

The existing corporate structure of these companies and their intermediary holding companies are reflected in Figure 1.2-1, "Simplified Ownership Diagram" and Figure 1.2-2, "Simplified Corporate Structure Diagram."

The address for the parent is shown below.

Energy Future Holdings Corp. Energy Plaza 1601 Bryan Street Dallas, Texas 75201-3411

The addresses for the owners of Energy Future Holdings Corp. are shown below.

A. Names

Texas Energy Future Capital Holdings LLC (Texas Energy GP) (the general partner of Texas Energy Future Holdings LP) Texas Energy Future Holdings LP (Texas Energy LP)

B. Addresses of owners

c/o Kohlberg Kravis Roberts & Co. L.P., 9 West 57th Street, Suite 4200 New York, NY 10019

and

c/o TPG 301 Commerce Street, Suite 3300 Fort Worth, TX 76102

EFC Holdings, TCEH, LHC, NEFH and NEFH II

TCEH is a Dallas-based holding company for subsidiaries engaged in competitive electricity market activities largely in Texas, including Luminant, which is a competitive power generation business engaged in electricity generation, development and construction of new generation facilities, wholesale marketing and trading and mining activities, and TXU Energy Retail Company LLC (TXU Energy), which is a competitive retailer that provides electricity and related services in Texas. TCEH is a wholly-owned subsidiary of EFC Holdings, which is a wholly-owned subsidiary of EFH. NEFH II, a limited liability company organized under the laws of the State of Delaware, is a wholly-owned subsidiary of NEFH, which is a wholly-owned subsidiary of Luminant, which is a wholly-owned subsidiary of Luminant Holding Company (LHC), which is a wholly-owned subsidiaries of EFH and EFC Holdings, they are separate legal entities from EFH and EFC Holdings and all of their other affiliates with their own assets and liabilities. NEFH II is an 88% owner of CPNPC. CPNPC and its members are jointly responsible for the development and funding of CPNPP 3 & 4.

The existing corporate structure of these companies and their intermediary holding companies are reflected in Figure 1.2-1, "Simplified Ownership Diagram" and Figure 1.2-2, "Simplified Corporate Structure Diagram."

The corporate addresses for EFC Holdings, TCEH, LHC, NEFH and NEFH II are shown below:

Texas Competitive Electric Holdings Company LLC Energy Plaza 1601 Bryan Street Dallas, TX 75201-3411 ; and

NEFH II Lincoln Plaza, 14th Floor 500 North Akard Street Dallas, TX 75201

Mitsubishi Heavy Industries, Ltd. (MHI) and MHI Nuclear North America, Inc. (MHI-NNA)

MHI through its wholly-owned subsidiary, MHI-NNA is a 12% owner of the new company, CPNPC. MHI is a corporation organized under the laws of Japan. MHI-NNA is a corporation organized under the laws of the State of Delaware. CPNPC and its members are jointly responsible for the development and funding of CPNPP 3 & 4.

The existing corporate structure of these companies and their intermediary holding companies and their relationship to EFH are reflected Figure 1.2-1, "Simplified Ownership Diagram" and Figure 1.2-2, "Simplified Corporate Structure Diagram."

The corporate addresses for MHI and MHI NNA are shown below:

Mitsubishi Heavy Industries, Ltd. Global Nuclear Business Operations 16-5, Konan 2-Chome, Minato-ku Tokyo, 108-8215 Japan; and

MHI Nuclear North America, Inc. 1540 Broadway New York, New York 10036

1.2.3 Discussion of Business or Occupation

1.2.3.1 Luminant Generation Company, Parents and Related Companies

EFH (formerly TXU Corp.) conducts its operations principally through EFC Holdings and its subsidiary TCEH for competitive businesses and Energy Future Intermediate Holding Company LLC (EFI Holding) and its subsidiary Oncor Electric Delivery Holdings Company LLC (Oncor) for its regulated businesses.

TCEH is a holding company for subsidiaries engaged in competitive electricity market activities largely in Texas. This includes Luminant Holding Company LLC (LHC), which includes Luminant Generation Company LLC and its wholly-owned subsidiaries, NEFH, NEFH II and jointly owned CPNPC. LHC is engaged in competitive electricity generation, development and construction of new generation facilities, wholesale marketing and trading, and mining activities.

As of December 31, 2008, TCEH through LHC and its subsidiaries owned or leased 18,365 MW of generation capacity in Texas, which consists of lignite-fueled, nuclear-fueled, natural gasfueled and oil-fueled generation facilities. In addition, Luminant is the largest purchaser of windgenerated electricity in Texas and the fifth largest in the US. TCEH is currently constructing three lignite-fueled generation units in Texas with expected generation capacity totaling approximately 2,200 MW. Permits have been obtained for the three new lignite-fueled units, which are expected to come on-line in 2009 and 2010.

TCEH also includes TXU Energy, which is a competitive retailer that provides electricity and related services to 2.1 million electricity customers in Texas. As of December 31, 2008, TXU Energy's estimated share of the total ERCOT retail market for residential and small business electricity customers was approximately 37% and 26%, respectively (based on customer counts).

At December 31, 2008, EFC Holdings, the parent of TCEH and its subsidiaries had approximately 4,300 full-time employees, including approximately 2,000 employees under collective bargaining agreements.

The other principal EFH business (Oncor) is engaged in regulated electricity transmission and distribution operations in Texas and does not report through and is separated from EFC Holdings and TCEH. Oncor is an electricity distribution and transmission company that is regulated by the Public Utility Commission of Texas (PUC). It provides both distribution services to retail electric providers that sell electricity to consumers and transmission services to other electricity distribution companies, cooperatives and municipalities. Oncor operates the largest distribution and transmission system in Texas, delivering electricity to more than three million homes and businesses and operating more than 117,000 miles of transmission and distribution lines in Texas. At December 31, 2008, Oncor had approximately 3,600 full time employees, including approximately 650 employees under collective bargaining agreements.

Although TCEH and Oncor are both subsidiaries of EFH, Oncor being a regulated company is ring-fenced from the rest of the EFH companies. This application relates only to TCEH and its subsidiaries, specifically to Luminant and its subsidiaries, as the operator and joint owner of CPNPP 3 & 4.

1.2.3.2 MHI- Nuclear North America, Inc., Parents and Related Companies

MHI Nuclear North America, Inc. is a 12% owner of CPNPC and is a wholly-owned subsidiary of Mitsubishi Heavy Industries, Ltd. (MHI). MHI is responsible for developing the overall standard plant design of the U.S. Advanced Pressurized Water Reactor (US-APWR), which is the technology proposed for Comanche Peak 3 & 4. MHI, through its wholly-owned subsidiary MNES, is also supporting the combined license application (COLA) including the Final Safety Analysis Report (FSAR) and seeking design certification of the US-APWR. It is anticipated that MHI and affiliates will exclusively provide engineering and major equipment for the project. MHI is a diversified company that manufactures a range of products, including heavy machinery, ships, industrial equipment, wind turbines, aircraft engines, automobiles and power plants.

1.2.4 Organization and Management

EFH, through its subsidiaries directly related to the operation and ownership interest in Comanche Peak 3 & 4 are: TCEH, LHC, Luminant, NEFH, NEFH II and CPNPC. The current simplified ownership structure of Energy Future Holdings Corp. and the subsidiaries directly related to the ownership interest in CPNPP 3 & 4 are provided in Figure 1.2-1, "Simplified Ownership Diagram" and Figure 1.2-2, "Simplified Corporate Structure."

The business and affairs of EFH are managed under the direction of an EFH board of directors and through the EFH officers that are listed in Table 1.2-1 and Table 1.2-2 respectively.

EFH's subsidiary, Oncor, is governed by a separate board of directors that is comprised of a majority of independent directors. This is necessary because it is a regulated transmission and delivery company and is ring fenced from the rest of the EFH competitive companies.

EFH's competitive subsidiaries, including TCEH, Luminant and its subsidiaries, NEFH and NEFH II are directed by boards of Managers and officers approved by EFH. CPNPC is directed by a Board of Managers and officers approved by its Luminant member, NEFH II and its MHI member, MHI-NNA, in accordance with the terms of the Amended and Restated Limited Liability Company Agreement of Comanche Peak Nuclear Power Company LLC. These managers and officers are listed on Tables 1.2-3 through 1.2-16.

The authority to control the actions of the board of directors for EFH, the licensee and its parent entities are vested in investment funds affiliated with KKR and TPG, and entities affiliated with the Goldman Sachs Group Inc. and Lehman Brothers Holdings Inc, as well as independent directors appointed by the ownership group. Investment funds affiliated with KKR, TPG, and Goldman, as members of Texas Energy Future Capital Holdings LLC, the general partner of Texas Energy Future Holdings LP, each name three designees to the EFH board of directors, and also collectively name additional members.

1.2.5 Regulatory Agencies with Jurisdiction over Rates and Services

The Public Utility Commission of Texas (PUC) has jurisdiction over the electric market in the region managed by an independent system operator or the Electric Reliability Council of Texas (ERCOT). This authority is focused on wholesale and retail market oversight, customer

protection rules, ratemaking and oversight of regulated utilities (transmission and delivery), reliability compliance, and matters related to the transition to the competitive market, such as oversight of nuclear decommissioning trusts of existing nuclear plants in ERCOT.

Traditional retail ratemaking has been replaced with a "customer choice" model where retail rates are established in a competitive market, subject to PUC customer protection rules. Likewise, the wholesale electric market pricing is set by competitive processes (under the market oversight of the PUC and a wholesale Market Monitor selected by the PUC), both through bilateral power agreements and ERCOT, as the independent system operator, who is responsible for transmission system open access, energy scheduling and accounting, transmission control area management, system planning, and support of the competitive retail market and financial settlement of the wholesale market.

ERCOT manages the flow of electric power to approximately 22 million Texas customers, representing 85 percent of the State's electric load and 75 percent of the Texas land area. As the independent system operator for the region, ERCOT schedules power on an electric grid that connects 40,327 miles of high voltage transmission lines and more than 566 generation units. ERCOT also manages financial settlements for the competitive choice areas.

ERCOT is a membership-based nonprofit corporation, governed by a board of directors and subject to oversight by the PUC and the Texas Legislature. ERCOT's 250 plus members include retail consumers, investor- and municipal-owned electric utilities, rural cooperatives, river authorities, independent generators, power marketers and retail electric providers.

The names and addresses of regulatory agencies that have jurisdiction over rates and services incident to the proposed activity are as follows:

Public Utility Commission of Texas 1701 N. Congress Avenue PO Box 13326 Austin, TX 78711-3326 Electric Reliability Council of Texas 7620 Metro Center Drive Austin, Texas 78744

1.2.6 Trade and News Publications

Trade and news publications that circulate in the area around the proposed facility and nationally that are considered appropriate to give reasonable notice of the application to those parties that might have a potential interest in the proposed facility are listed in Table 1.2-9.

1.3 Financial Qualifications

EFH (formerly TXU Corp.)

Energy Future Holdings Corp. (EFH) provides the following information required by 10 CFR 50.33(f), 10 CFR 50 App C, and NUREG-1577, Rev. 1 to demonstrate that EFH and specifically TCEH possess or have reasonable assurance of obtaining the funds necessary to cover estimated construction costs and related fuel cycle costs.

Historical financial information for EFH is available in annual (SEC Form 10-K), quarterly (SEC Form 10-Q) and current (SEC Form 8-K) reports filed with the Securities and Exchange Commission (SEC). The public may read and copy any reports or other information that EFH files with the SEC at its Public Reference Room at 100 F Street, NE., Washington, D.C. 20549. EFH reports are also available to the public without charge from the website maintained by the SEC at <u>www.sec.gov</u> and EFH's website at <u>www.energyfutureholdings.com</u>.

To review EFH's financial condition, please refer to the SEC Form 10K dated December 31, 2008 in the following sections; liquidity information, Page 93, financial statements and supplementary data, pages 117-123 and for credit facilities see page 153.

EFC Holdings and TCEH

Historical financial information for EFC Holdings, the immediate parent of TCEH, is available in annual (SEC Form 10-K), quarterly (SEC Form 10-Q) and current (SEC Form 8-K) reports filed with the Securities and Exchange Commission (SEC) or in equivalent reports available on EFH's website. The public may read and copy any reports or other information that EFC Holdings and TCEH have filed with the SEC at its Public Reference Room at 100 F Street, NE., Washington, D.C. 20549 and at EFH's website at www.energyfutureholdings.com . EFC Holdings and TCEH reports are also available to the public without charge from the website maintained bv the SEC at www.sec.gov and TCEH's website at www.energyfutureholdingscorp.com.

To review EFC Holdings' and TCEH's financial condition, please refer to the Independent Auditor's Reports as of December 31, 2008 contained in the annual report of EFC Holdings, in the following sections: financial statements on pages 2-6 and credit facilities on page 28.

<u>Luminant</u>

Luminant is financially qualified as the operator of Comanche Peak 3 & 4, because it will obtain funds for the construction and operation of Comanche Peak 3 & 4 pursuant to agreements with the owner of the units, CPNPC, which is responsible for providing these funds. As discussed further below, CPNPC is a newly formed entity and is submitting information regarding projected source of funds and income statements. CPNPC has existing resources to fund ongoing activity, and it will obtain funds for construction by obtaining capital from its parent companies and from existing and planned financing activities, including guarantees from the Department of Energy's Loan Guarantee Program. Luminant currently receives funding from CPNPC pursuant to the Development Services Agreement between the parties dated as of January 30, 2009. Further agreements will be prepared and executed to provide for the payment of construction and operating costs from CPNPC to Luminant.

<u>CPNPC</u>

CPNPC is providing projected source and use of funds statements and income statements for Operation and Maintenance for CPNPP 3 & 4 as a stand-alone operation for the five-year calendar period from 2017 through 2021. Copies of the projected sources and uses of funds, income statements, related performance schedules are contained in Tables 1.3-1c, 1.3-2 and 1.3-3. CPNPC requests that Tables 1.3-1a-c, 1.3-2 and 1.3-3 be withheld from public disclosure, as described in the Section 2.390 Affidavits provided in Part 0 of this COLA (Redacted versions of these documents, suitable for public disclosure, are contained in Attachment 2.) These financial statements demonstrate that CPNPC alone possesses, or has reasonable assurance of obtaining, funds necessary to cover its estimated operating costs during this period.

The assumption of market price is included in Table 1.3-4. CPNPC requests that Table 1.3-4 be withheld from public disclosure, as described in the Section 2.390 Affidavits provided in Part 0 of this COLA. Redacted versions of these documents, suitable for public disclosure, are contained in Attachment 2.

CPNPC will sell the generation output from Comanche Peak 3&4 in the ERCOT wholesale power markets. The projected income statements for the first five years of operation show that anticipated revenues from sales of energy from the planned capacity of CPNPP 3 & 4 provide assurance that CPNPC will have an adequate source of funds to support its operating expenses, including support for CPNPP 3 & 4 on an ongoing basis.

The construction period for the project is 116 months per unit, which includes the COLA processing time. The estimate of construction costs and the sources of construction funds for Comanche Peak 3 & 4 are described in Table 1.3-1b-c (proprietary). The Department of Energy guarantees are an important part of the plan to get capital and debt markets to invest in the project. Construction financing will be provided by the equity sponsors or otherwise arranged by the sponsors (e.g., vendor financing) until the COLA application is approved, at which time the debt market will also be used to finance the construction period.

Tables 1.3-2 and 1.3-3 (both proprietary) provide the operations and maintenance costs for the first five years for CPNPP 3 & 4. The sources to cover the operating costs will come from the sale of electricity through power purchase agreements.

Mitsubishi Heavy Industries, Ltd.

Mitsubishi Heavy Industries ("MHI") is a large (~\$40 billion enterprise value), highly rated diversified manufacturing company and a major player in the global nuclear power equipment market. MHI's Power Systems division, of which nuclear is a part, is the largest division within MHI and represents approximately 30% of MHI's total revenues and almost 43% of its operating profit. Accordingly, one of MHI's highest strategic priorities is to establish a strong position in the U.S. nuclear market. MHI is a clear leader in innovating advanced pressurized water reactor ("APWR") products and constructing APWR plants, with 23 completed facilities, one in progress, and two in the licensing stage in Japan. MHI is fully committed to CPNPP 3 & 4, which is the reference plant for APWR technology in the United States and represents a critical step for MHI in developing and growing its U.S. nuclear business. MHI is not only expected to

provide technology expertise to the project, but is also expected to invest in the project to demonstrate its strong continued commitment to the project.

Historical and current financial information for MHI is available in annual and quarterly reports filed with the Financial Service Agencies, Japan or in equivalent reports available on MHI's website. The public may read and copy the reports or other information that MHI files with the Financial Service Agencies, Japan at Electric Disclosure for Investors' NET work at https://info.edinet-fsa.go.jp/E01EW/BLMainController.jsp and at MHI's website at https://www.mhi.co.jp/en/. In the March 31, 2009 Annual Report for Mitsubishi Heavy Industries refer to pages 41-52 for financial statements and management discussion and analysis

1.4 Decommissioning Funding Assurance

The applicants certify that prior to initial fuel load they will provide financial assurance for decommissioning based upon the NRC minimum "formula" amount calculated pursuant to 10 CFR 50.75(c). Attachment 1, New Plant Financial Assurance, dated: July 8, 2009, provides the current calculation of the NRC formula amount. This amount will be adjusted annually in accordance with 10 CFR 50.75(b)(2). The applicants' funding proposals to cover those costs in accordance with 10 CFR 50.75 are set forth below.

In accordance with the terms of 10 CFR 50.75(e)(1)(vi), the applicants will provide decommissioning funding assurance for the obligation for decommissioning using the external sinking fund method consistent with provisions of 10 CFR 50.75(e)(1)(ii), with funds accumulated in segregated trusts maintained by CPNPC, except that CPNPC will not ordinarily collect funding from ratepayers. In accordance with the requirements of 10 CFR 50.75(e)(1)(ii). CPNPC will set aside funds periodically, no less frequently than annually, in trust fund accounts segregated from its assets and outside its administrative control and in which the total amount of funds will be sufficient to fund decommissioning at the time permanent cessation of operations is expected. However, the funds periodically set aside are expected to be generated from sales of power. Although CPNPC does not technically qualify to use the sinking fund method as its exclusive mechanism under the provisions of 10 CFR 50.75(e)(1)(ii)(A)&(B), CPNPC plans to set aside funds for decommissioning under the oversight and jurisdiction of the Public Utility Commission of Texas and pursuant to Texas law, which provides that ratepayers would be obligated to fund the total cost of decommissioning in the event that the applicant fails to periodically set aside funds as planned (per Tex. Util. Code Ann. § 39.206 (Vernon 1998 and Supp. 2007)). Thus, if CPNPC does not provide periodic funding from its own revenues, Texas Law would provide for a mechanism for funding decommissioning that does meet the requirements of 10CFR 50.75(e)(1)(ii)(A).

An updated Decommissioning Study and certifications (Attachment 1) are included with this document consistent with the requirements of 10 CFR 50.75(b) and 10 CFR 50.75(e)(3).

1.5 Foreign Ownership or Control

Texas Energy Future Capital Holdings LLC (Texas Energy GP) is the sole general partner of the Texas Energy Future Holdings Limited Partnership (Texas Energy LP), the direct parent of Energy Future Holdings Corp. and the ultimate parent of Luminant Holding Company LLC. Luminant, and thus the indirect parent of the licensee is not owned, controlled, or dominated by

any alien, foreign corporation, or foreign government. This conclusion is demonstrated by a functional analysis of the governance structure of Texas Energy LP and its investors, consistent with the Commission's Final Standard Review Plan on Foreign Ownership, Control, or Domination, 64 Fed. Reg. 52,355 (Sept. 28, 1999) ("SRP"). Fifteen of the sixteen individuals who are currently on the EFH Board of Directors are U.S. citizens; the sixteenth is a citizen of South Africa. The participation of one citizen of South Africa as a director of EFH has no material impact on EFH's current compliance with foreign ownership, control, or influence ("FOCI") regulations. Texas Energy LP is a Delaware limited partnership domiciled in the United States.

As discussed above, the business activities of EFH are controlled by Texas Energy Future Capital Holdings LLC (Texas Energy GP), a Delaware limited liability company domiciled in the United States and the sole general partner of EFH's principal shareholder. Four of the five officers of Texas Energy GP are U.S. citizens. Texas Energy GP is not and will not be controlled by any foreign entities or other foreign persons. The members of Texas Energy GP are business entities domiciled in the United States with the exception of minority membership interests held by two Goldman Funds limited partnerships formed in the Cayman Islands, one Goldman Fund entity formed in Germany, and one KKR Fund entity formed in Guernsey. The Goldman Fund limited partnerships that are formed and domiciled in foreign nations are controlled by their general partners, which in turn are ultimately controlled, directly or indirectly, by Goldman, a Delaware corporation controlled by a majority of U.S. citizen directors. KPE, the KKR Fund entity formed overseas, will own less than 5% of the membership interests of Texas Energy GP. Each one of the Goldman Funds formed overseas owns less than 7% of the membership interests of Texas Energy GP. Examined from a functional perspective, given the overall investment and governance structure of Texas Energy GP, such partial foreign ownership of Texas Energy GP by affiliates of the Controlling Owners does not constitute impermissible foreign ownership, control, or domination of Luminant.¹

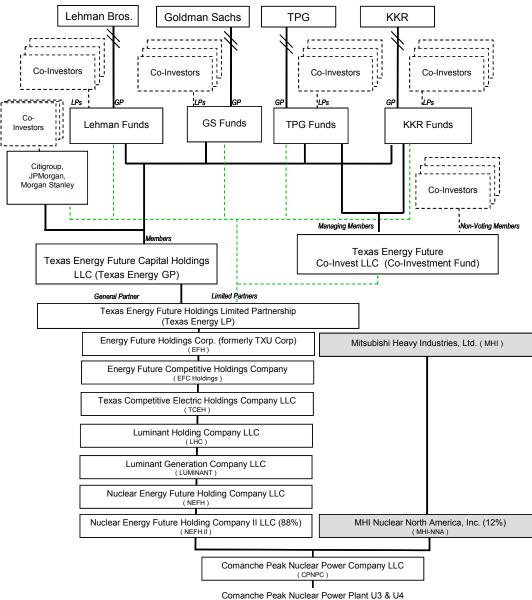
In addition to such minority, non-controlling direct foreign investments in Texas Energy GP, various foreign entities and other foreign persons have invested in Texas Energy GP indirectly by participating as passive co-investors in the KKR Funds, TPG Funds, Goldman Funds, and Lehman Entities. Such indirect foreign investors hold passive, non-controlling interests in those investment funds.

Finally, the participation in the ownership of CPNPC by MHI-NNA, is a minority non-controlling interest and does not constitute impermissible foreign ownership, control, or domination of Luminant's¹ controlling ownership (88%) of CPNPC. No negation action plan is necessary, because MHI is not able to exercise control or domination over CPNPC or its corporate parents. MHI has appointed two of the four Managers of CPNPC, both of whom are citizens of Japan. However, these two members only have authority to vote in accordance with MHI's 12% interest in CPNPC. The controlling 88% is voted by the two Managers, including the Chairman, appointed by entities controlled by Luminant, and both of these Managers are citizens of the United States. These Managers are identified in Table 1.2-15. In addition, some of the officers of CPNPC identified in Table 1.2-16 are citizens of Japan affiliated with MHI. However, these officers report to and act under the control of the Chairman and Development Manager of CPNPC, who are both citizens of the United States and affiliated with Luminant. The corporate governance of CPNPC is established pursuant to the Amended and Restated Limited Liability Company Agreement of Comanche Peak Nuclear Power Company LLC.

¹ See SRP § 3.2, 64 Fed. Reg. at 52,358 ("An applicant that is partially owned by a foreign entity, for example, partial ownership of 50% or greater, may still be eligible for a license if certain conditions are Rev. 01 Final (Public) Page 19 of 38 11/20/09

imposed, such as requiring that officers and employees of the applicant responsible for special nuclear material must be U.S. citizens."); SRP § 4.2, 64 Fed. Reg. at 52,359 (information to be considered includes "whether any foreign interest controls, or is in a position to control the election, appointment, or tenure of any of the applicant's directors, officers, or executive personnel").

FIGURE 1.2-1 Simplified Ownership Diagram



(CPNPP 3 & 4)



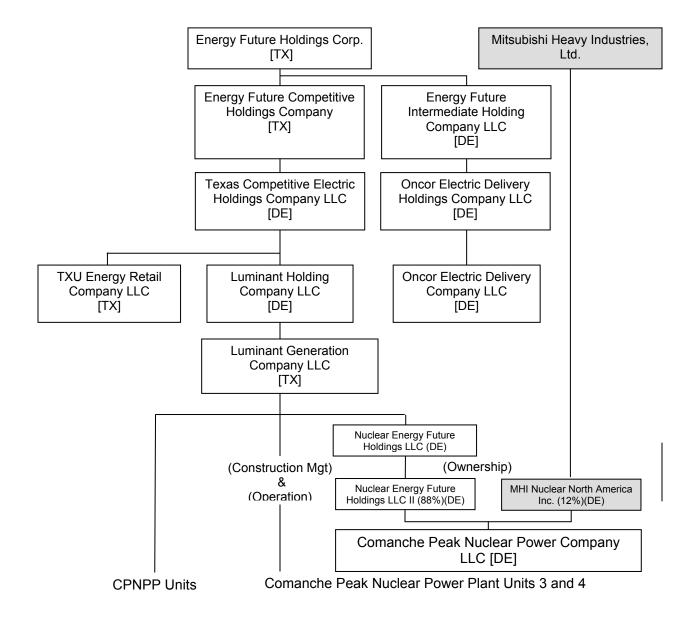


Table 1.2-1Energy Future Holdings Corp. (EFH) - Board of Directors

Directors	Position	US Citizen
Donald L. Evans	Non-Executive Chairman	Yes
Arcilia C. Acosta	Director	Yes
David Bonderman	Director	Yes
Frederick M. Goltz	Director	Yes
James R. Huffines	Director	Yes
Scott Lebovitz	Director	Yes
Jeffrey Liaw	Director	Yes
Marc S. Lipschultz	Director	Yes
Michael MacDougall	Director	Yes
Lyndon L. Olson, Jr.	Director	Yes
Kenneth Pontarelli	Director	Yes
William K. Reilly	Director	Yes
Jonathan D. Smidt	Director	Citizen of South Africa and U. S. Resident
John F. Young	Director, President and CEO of Energy Future Holdings Corp	Yes
Thomas D. Ferguson	Director	Yes
Kneeland Youngblood	Director	Yes

Table 1.2-2EFH - Executive Officers

Officer	Position	Citizenship
John F. Young	President and Chief Executive Officer, EFH	USA
Mike S. Greene	Vice Chairman, EFH	USA
Paul M. Keglevic	Executive VP and Chief Financial Officer, EFH	USA
Robert C. Walters	Executive VP and General Counsel, EFH	USA
M. Rizwan Chand	Executive VP, Human Resources, EFH	USA
David A. Campbell	President and Chief Executive, Luminant	USA
James A. Burke	Chief Executive Officer, TXU Energy	USA
Mark A. McFarland	Executive VP, EFH, and Chief Commercial Officer, Luminant	USA
Michael R. Blevins	Acting Chief Operating Officer, Luminant	USA

Table 1.2-3Texas Electric Competitive Holdings (TCEH) - Board of Managers

Managers	Position	Citizenship
Frederic M. Goltz	Manager	USA
Scott Lebovitz	Manager	USA
Michael MacDougall	Manager	USA

Table 1.2-4 Luminant Holding Company (LHC) - Board of Managers

Managers	Position	Citizenship
David A. Campbell	Manager, Chairman of the Board	USA
Frederic M. Goltz	Manager	USA
Scott Lebovitz	Manager	USA
Michael MacDougall	Manager	USA
Richard Meserve	Manager, Chairman of the Nuclear Committee	USA
John F. Young	Manager	USA
Rev. 01 Final (Public) 11/20/09	Page 24 of 38	

Table 1.2-5 Luminant Generation Company LLC (Luminant) - Board of Managers

Managers	Position	Citizenship
David A. Campbell	Manager, Chairman of the Board	USA
Paul Kegelevic	Manager	USA

Table 1.2-6 Luminant - Officers

Officer	Position	Citizenship
David A. Campbell	President and Chief Executive, Luminant	USA
Michael R.Blevins	Executive VP and (Acting) Chief Operating Officer	USA
Mark A. McFarland	Executive VP and Chief Commercial Officer	USA
M. Rizwan Chand	Executive VP	USA
Rafael Flores	Senior VP and Chief Nuclear Officer	USA
David D. Faranetta	Senior VP and Chief Financial Officer	USA
William A. Moore	General Counsel, Chief Legal Officer	USA
Richard R. Federwisch	Senior VP	USA
Robert C. Frenzel	Senior VP	USA
Shawn Glacken	Senior VP	USA
Stephen J. Kopenitz	Senior VP	USA
Stanley J. Szlauderbach	Senior VP	USA
Stephen G. Horn	Vice President	USA
Mitchell L. Lucas	Vice President	USA
Gerry L. Pearson	Vice President	USA
Patrick Williams	Vice President	USA
Gary L. Moor	Secretary	USA
Anthony R. Horton	Treasurer	USA
Betty R. Fleshman	Assistant Secretary	USA
Michael B. Davis	Assistant Treasurer	USA
Carla A. Howard	Tax Signing Officer	USA
David A. Sigler	Tax Signing Officer	USA
Rev. 01 Final (Public)	Page 25 of 38	

11/20/09

Table 1.2-7 Nuclear Energy Future Holdings LLC (NEFH) – Board of Managers

Managers	Position	Citizenship
David A. Campbell	Manager, Chairman of the Board	USA
Charles R. Enze	Manager	USA
Paul M. Keglevic	Manager	USA
Mark A. McFarland	Manager	USA

Table 1.2-8 NEFH – Officers

Officer	Position	Citizenship
David A. Campbell	President and Chief Executive, Luminant	USA
Michael R.Blevins	Executive VP and (Acting) Chief Operating Officer	USA
Mark A. McFarland	Executive VP and Chief Commercial Officer	USA
M. Rizwan Chand	Executive VP	USA
Rafael Flores	Senior VP and Chief Operating Officer	USA
David D. Faranetta	Senior VP and Chief Financial Officer	USA
William A. Moore	General Counsel, Chief Legal Officer	USA
Robert C. Frenzel	Senior VP	USA
Shawn Glacken	Senior VP	USA
Stephen J. Kopenitz	Senior VP	USA
Stanley J. Szlauderbach	Senior VP	USA
Mitchell L. Lucas	Vice President	USA
Brett Wiggs	Vice President	USA
Jared S. Richardson	Secretary	USA
Anthony R. Horton	Treasurer	USA
Betty R. Fleshman	Assistant Secretary	USA
Michael B. Davis	Assistant Treasurer	USA
Carla A. Howard	Tax Signing Officer	USA
David A. Sigler	Tax Signing Officer	USA
Rev. 01 Final (Public)	Page 26 of 38	

Rev. 01 Final (Public) 11/20/09

Table 1.2-9 Nuclear Energy Future Holdings II LLC (NEFH II) – Board of Managers

Managers	Position	Citizenship
David A. Campbell	Manager, Chairman of the Board	USA
Charles R. Enze	Manager	USA
Paul M. Keglevic	Manager	USA
Mark A. McFarland	Manager	USA

Table 1.2-10 NEFH II –Officers

Officer	Position	Citizenship
David A. Campbell	President and Chief Executive, Luminant	USA
Michael R.Blevins	Executive VP and (Acting) Chief Operating Officer	USA
Mark A. McFarland	Executive VP and Chief Commercial Officer	USA
M. Rizwan Chand	Executive VP	USA
Rafael Flores	Senior VP and Chief Operating Officer	USA
David D. Faranetta	Senior VP and Chief Financial Officer	USA
William A. Moore	General Counsel, Chief Legal Officer	USA
Robert C. Frenzel	Senior VP	USA
Shawn Glacken	Senior VP	USA
Stephen J. Kopenitz	Senior VP	USA
Stanley J. Szlauderbach	Senior VP	USA
Mitchell L. Lucas	Vice President	USA
Brett Wiggs	Vice President	USA
Jared S. Richardson	Secretary	USA
Anthony R. Horton	Treasurer	USA
Betty R. Fleshman	Assistant Secretary	USA
Michael B. Davis	Assistant Treasurer	USA
Carla A. Howard	Tax Signing Officer	USA
David A. Sigler	Tax Signing Officer	USA
Rev. 01 Final (Public)	Page 27 of 38	

Rev. 01 Final (Public) 11/20/09

Table 1.2-11Mitsubishi Heavy Industries, Ltd, (MHI) - Board of Directors

Director	Position	Citizenship
Kazuo Tsukuda	Director	Japan
Hideaki Omiya	Director	Japan
Hideo Egawa	Director	Japan
Ichiro Fukue	Director	Japan
Hiroshi Kan	Director	Japan
Sunao Aoki	Director	Japan
Katsuhiko Yoshida	Director	Japan
Shiro lijima	Director	Japan
Katsuhiko Yasuda	Director	Japan
Akira Sawa	Director	Japan
Teruaki Kawai	Director	Japan
Shunichi Miyanaga	Director	Japan
Yoshiaki Tsukuda	Director	Japan
Fumio Wakisaka	Director	Japan
Ken Watabe	Director	Japan
Kiyonobu Toma	Director	Japan
Mikio Sasaki	Outside Directors	Japan
Akihiro Wada	Outside Directors	Japan
Yoshihiro Sakamoto	Outside Directors	Japan

Table 1.2-12 MHI – Officers

Officer	Position	Citizenship
Hideaki Omiya	President	Japan
Ichiro Fukue	Senior Executive Vice President	Japan
Hiroshi Kan	Senior Executive Vice President	Japan
Sunao Aoki	Senior Executive Vice President	Japan
Shiro lijima	Executive Vice President	Japan
Katsuhiko Yasuda	Executive Vice President	Japan
Akira Sawa	Executive Vice President	Japan
Teruaki Kawai	Executive Vice President	Japan
Shunichi Miyanaga	Executive Vice President	Japan
Yoshiaki Tsukuda	Executive Vice President	Japan
Yujiro Kawamoto	Executive Vice President	Japan

Table 1.2-13MHI Nuclear North America, Inc. (MHI-NNA) – Directors

Director	Position	Citizenship
Terumasa Onaka	Director	Japan

Table 1.2-14MHI-NNA – Officers

Officer	Position	Citizenship
Terumasa Onaka	President	Japan
Saiki Hiroshi	Secretary	Japan

Table 1.2-15Comanche Peak Nuclear Power Company LLC (CPNPC) – Board of Managers

Managers	Position	Citizenship
Mark A. McFarland	Manager, Chairman of the Board	USA
Mike R. Blevins	Manager	USA
Masahiko Kaneda	Manager	Japan
Terumasa Onaka	Manager	Japan

Table 1.2-16 CPNPC - Officers

Officer	Position	Citizenship
M. A. McFarland	President and Chief Executive	USA
Michael R. Blevins	Executive VP and Chief Operating Officer	USA
Terumasa Onaka	Executive Vice President for Japanese Finance	Japan
Masahiko Kaneda	Executive Vice President for US-APWR Engineering	Japan
Noriyuki Kuwata	Executive Officer for Japanese Finance	Japan
David D. Faranetta	Senior VP and Chief Financial Officer	USA
Shawn Glacken	Senior Vice President	USA
Stanley J. Szlauderbach	Senior Vice President	USA
Yoshinobu Shibata	Senior Vice President for Japanese Finance	Japan
Frank P. Gillespie	Senior Vice President for US-APWR Engineering	USA
Rafael Flores	Senior Vice President and Chief Nuclear Officer	USA
Mitch Lucas	Vice President	USA
Brett Wiggs	Vice President and Development Manager	USA
Tony R. Horton	Treasurer	USA
Jared S. Richardson	Secretary	USA
Michael B. Davis	Assistant Treasurer	USA
Betty R. Fleshman	Assistant Secretary	USA
Carla A. Howard	Tax Signing Officer	USA
David A. Sigler	Tax Signing Officer	USA
Rev. 01 Final (Public) 11/20/09	Page 30 of 38	

Table 1.2-17 Trade and News Publications

Hood County News -

Editor, Roger Enlow <u>editor@hcnews.com</u> Publisher, Jerry Tidwell <u>jtidwell@hcnews.com</u>

Glen Rose Reporter - Editor and Publisher, Dan McCarty 254-897-2282

Glen Rose Newspaper - Publisher/Editor, Billie Jones <u>editor@glenrosenewspaper.com</u> 254-897-GLEN (4536)

Associated Press - Mike Graczyk 281-872-8900 281-872-9988 mgraczyk@ap.org

Wall St. Journal - Thaddeus Herrick 713-547-9211 713-547-9228 thaddeus.herrick@wsj.com

Reuters -

Eileen O'Grady 713-210-8522 Cell: 646-281-6074 <u>Eileen.ogrady@reuters.com</u> Eileen Moustakis - 646-223-6074 cell: 646-223-6079 <u>Eileen.Moustakis@reuters.com</u>

Dow Jones

Michael Rieke – 713-227-5440 201-938-2061 Kisten McNamara 713-547-9234 <u>kristen.mcnamara@dowjones.com</u>

Nuc Net - John Shepherd 011-41-58-286-6111 011-41-58-286-6845 editors@worldnuclear.org

Nucleonics Week

Jenny Weil - 202-383-2170 202-383-2163 jenny weil@platts.com Elaine Hiruo 202-383-2125 elaine hiruo@platts.com

Nuclear News - Rick Michal 708-579-8244 708-352-6464 michal@ans.org

Nuclear Plant Journal - Newal Agnihotri 630-858-6161 Jolinda Capello 630-858-8787 jolinda@goinfo.com

Nuclear Engineering Internat'I - David Flin *011-44-20-8269-7772 011-44-20-8269-7804* <u>dflin@wilmington.co.uk</u>

NEI -

Scott Peterson 202-739-8044 jsp@nei.org Steve Kerekes 202-739-8073 <u>sck@nei.org</u> Thelma Wiggins 202-739-8046 <u>tlw@nei.org</u> 202-785-4113

Power Engineering - Douglas J. Smith, Senior Editor 918-831-9851 douglas@pennwell.com

KXAS-TV (NBC) Ch. 5 Stephen Wright, News Assignment Manager, *817-654-6325*, <u>Stephen.wright@nbcuni.com</u>

WBAP 820-AM Radio Lance Liquez, Reporter, 817-695-0853, 817-312-5976

ATTACHMENT 1 Decommissioning Study for Units 3 & 4

The following reports the calculation of the formula amount as of July 08, 2009 for each of the two nuclear powered generating plants designated as CPNPP Units 3 and 4, calculated in accordance with the provisions of 10 CFR 50.75(c) and the guidance provided in NUREG-1307, Rev. 12. The Applicants will annually adjust the minimum formula amount calculation in accordance with 10 CFR 50.75(b)(2).

The Applicants hereby certify that, no later than 30 days after the Commission publishes a notice in the *Federal Register* under 10 CFR 52.103(a), they will provide decommissioning funding assurance using the methods in accordance with 10 CFR 50.75(e)(1), as described in COLA Part 1, Section 1.4, or as otherwise permitted by 10 CFR 50.75(e)(1) after having provided prior written notice to the NRC Staff of any proposed change(s) in the method of providing decommissioning funding assurance. They further certify that they will provide such funding assurance in amounts not less than the formula amount calculation.

Taking into account credit for projected earnings on trust fund balances and annual contributions using a two percent real rate of return, as permitted by 10 CFR 50.75(e)(ii), the annual funding for each plant would be expected to be in the range of \$9,000,000 per unit in current year dollars. The actual annual contributions by the applicants will be established in connection with proceedings to be conducted by the Public Utility Commission of Texas.

In addition, both two years and one year before the scheduled date of initial loading of fuel, and consistent the schedule required by 10 CFR 50.75(e)(3), the Applicants will submit a report updating this certification and the information provided in this report, as well as copies of the form(s) of financial instrument(s) to be used in providing financial assurance for decommissioning), e.g., a decommissioning trust agreement for an external sinking fund.

Office Memorandum

EFH Corporate Services

Date:	July	8,	2009
	· · J	- 2	

- To: Robert Reible
- From: John E. Thompson, Jr.

Re: Supporting Workpapers for the NRC Financial Assurance Report for Comanche Peak Units 3 and 4

Attached are the Workpapers for the initial NRC Financial Assurance Report for Comanche Peak Units 3 and 4, pursuant to the 10 CFR 50.75(f) Financial Assurance filing requirements. The assumed license start dates are 1/1/16 and 1/1/17 for Units #3 and #4 respectively. The minimum NRC decommissioning cost using the 10 CFR 50.75(c) formula at the start-up date for each unit is estimated in 2015 and 2016 dollars for Units #3 and #4 respectively.

Earnings were projected to the license expiration date for each unit using the two percent real rate of return provided for in 10 CFR 50.75(e)(ii). The sum of the trust balance at the start date, plus the sum of future contributions, plus the sum of the real return earnings over the life of the license must be at least equal to the minimum NRC decommissioning cost at the start-up date for each unit to meet the NRC Financial Assurance test. While the table below shows the minimums required at start up under three funding methods, only method #1 and #3 are acceptable currently:

<u>Method #1 - Prepayment</u> Unit # 3 Prepayment requi Unit # 4 Prepayment requi		Prepayment \$ 247.4 million \$ 257.6 million
Method #2 - External Sinking	<u>g Fund</u>	Annual
Unit # 3 Annual Funding requirement		\$ 9.0 million
Unit # 4 Annual Funding 1	requirement	\$ 9.3 million
Method #3 - Prepayment with	h External Sinking I	Fund
	Prepayment	Annual
Unit # 3 requirements	\$ 104.0 million	\$ 7.5 million
Unit # 4 requirements	\$ 108.3 million	\$ 7.8 million
NOTE: Prepayment of 16 years as required	by Texas code §25.304 to sup	pport an External Sinking Fund

A complete financial study utilizing a site specific cost study should be used to determine the desired funding amounts needed to fully decommission the units. NRC Financial Assurance Report for Comanche Peak Units 3 and 4

Luminant Generation Company LLC Comanche Peak Steam Electric Station (CPSES)

WORKPAPERS

Method #1 - Prepayment

Method #2 - External Sinking Fund

Method #3 - Prepayment with External Sinking Fund



NRC Financial Assurance Report for Comanche Peak Units 3 and 4 - Method #1 - Prepayment

Luminant Generation Company LLC Comanche Peak Steam Electric Station (CPSES)

		Projected Filing Information	
	Information is submitted to provide Financial Assurance	Unit # 3	Unit # 4
1.	The minimum amount of decommissioning funds estimated to be required pursuant to 10 CFR 50.75 (b) and (c).	<u>12/31/2015</u>	<u>12/31/2016</u>
	For Financial Assurance of New Plants Using NRC 10 CFR 50.75(c) formulas	\$ 546.4 million	\$ 568.8 million
2.	The amount accumulated at the end of the calendar year preceding the date of the report for items included in 10 CFR 50.75 (b) and (c).		
	Market Value at January 1, 2016 Market Value at January 1, 2017	\$ 247.4 million	\$ 257.6 million
3.	A schedule of the annual amounts remaining to be collected for items in 10 CFR 50.75 (b) and (c).		
		<u>Unit # 3</u>	<u>Unit # 4</u>
	Year 2016 Years 2017 through 2055 (39 years) Year 2056		
	Totals	None	None
4.	The assumptions used regarding escalation in decommissioning costs, rates of earnings on decommissioning funds, and rates of other factors used in funding projections. Estimated Escalation rate for decommissioning costs Estimated Earnings rates on decommissioning funds License period real return provided for by 10 CFR 50.75(e)(ii)	4.11% 2.0%	4.11% 2.0%
5.	Any power sale contracts upon which licensee is relying to certifying financial assurance.	None	None
6.	Modifications to licensee's method of providing financial assurance since previous report.	N/A	N/A
7.	Material changes to trust agreement.	N/A	N/A

NOTE: Estimated Escalation is based on the decommissioning cost study filed with the Public Utility Commission on June 17, 2005, and approved by the Commission's Policy Development Division on July 29, 2005.

NRC Financial Assurance Report for Comanche Peak Units 3 and 4 - Method #2 - External Sinking Fund

Luminant Generation Company LLC Comanche Peak Steam Electric Station (CPSES)

		Projected Filing Information	
	Information is submitted to provide Financial Assurance	Unit # 3	Unit # 4
1.	The minimum amount of decommissioning funds estimated to be required pursuant to 10 CFR 50.75 (b) and (c).	<u>12/31/2015</u>	<u>12/31/2016</u>
	For Financial Assurance of New Plants Using NRC 10 CFR 50.75(c) formulas	\$ 546.4 million	\$ 568.8 million
2.	The amount accumulated at the end of the calendar year preceding the date of the report for items included in 10 CFR 50.75 (b) and (c).		
	Market Value at January 1, 2016 Market Value at January 1, 2017	\$ 0.0 million	\$ 0.0 million
3.	A schedule of the annual amounts remaining to be collected for items in 10 CFR 50.75 (b) and (c).		
	Year 2016 Years 2017 through 2055 (39 years) Year 2056 Totals	<u>Unit # 3</u> \$ 9.0 million \$ 349.3 million \$ 358.2 million	<u>Unit # 4</u> \$ 363.6 million \$ 9.3 million \$ 373.0 million
4.	The assumptions used regarding escalation in decommissioning costs, rates of earnings on decommissioning funds, and rates of other factors used in funding projections.		
	Estimated Escalation rate for decommissioning costs	4.11%	4.11%
	Estimated Earnings rates on decommissioning funds License period real return provided for by 10 CFR 50.75(e)(ii)	2.0%	2.0%
5.	Any power sale contracts upon which licensee is relying to certifying financial assurance.	None	None
6.	Modifications to licensee's method of providing financial assurance since previous report.	N/A	N/A
7.	Material changes to trust agreement.	N/A	N/A

NOTE: Estimated Escalation is based on the decommissioning cost study filed with the Public Utility Commission on June 17, 2005, and approved by the Commission's Policy Development Division on July 29, 2005.

NRC Financial Assurance Report for Comanche Peak Units 3 and 4 - Method #3 - Prepayment with External Sinking Fund

Luminant Generation Company LLC Comanche Peak Steam Electric Station (CPSES)

		Projected Filin	g Information
	Information is submitted to provide Financial Assurance	Unit # 3	Unit # 4
1.	The minimum amount of decommissioning funds estimated to be required pursuant to 10 CFR 50.75 (b) and (c).	<u>12/31/2015</u>	<u>12/31/2016</u>
	For Financial Assurance of New Plants Using NRC 10 CFR 50.75(c) formulas	\$ 546.4 million	\$ 568.8 million
2.	The amount accumulated at the end of the calendar year preceding the date of the report for items included in 10 CFR 50.75 (b) and (c).		
	Market Value at January 1, 2016 Market Value at January 1, 2017	\$ 104.0 million	\$ 108.3 million
3.	A schedule of the annual amounts remaining to be collected for items in 10 CFR 50.75 (b) and (c).		
	Year 2016 Years 2017 through 2039 (23 years) Year 2040 Totals	<u>Unit # 3</u> \$ 7.5 million \$ 172.7 million \$ 180.2 million	<u>Unit # 4</u> \$ 179.8 million \$ 7.8 million \$ 187.6 million
4.	The assumptions used regarding escalation in decommissioning costs, rates of earnings on decommissioning funds, and rates of other factors used in funding projections.		
	Estimated Escalation rate for decommissioning costs	4.11%	4.11%
	Estimated Earnings rates on decommissioning funds License period real return provided for by 10 CFR 50.75(e)(ii)	2.0%	2.0%
5.	Any power sale contracts upon which licensee is relying to certifying financial assurance.	None	None
6.	Modifications to licensee's method of providing financial assurance since previous report.	N/A	N/A
7.	Material changes to trust agreement.	N/A	N/A

NOTE: Estimated Escalation is based on the decommissioning cost study filed with the Public Utility Commission on June 17, 2005, and approved by the Commission's Policy Development Division on July 29, 2005.

NRC Financial Assurance Report for Comanche Peak Units 3 and 4

Luminant Generation Company LLC - Comanche Peak Steam Electric Station (CPSES)

1. The minimum amount of decommissioning funds estimated to be required pursuant to 10 CFR 50.75 (b) and (c).

Factor		<u>Weight</u>	In	flation Factor	Weighted
Labor	South	65%	Х	2.1480 =	1.39620
Energy-Power	13% pwr	58%	Х	1.6220 =	0.12230
Energy-Fuel		42%	Х	4.2990 =	0.23473
Waste	SC, Non-Atl	22%	Х	9.8720 =	2.17184
		Co	mposite Ir	Inflation Factor =	3.92506
Note: Uses the NRC meth	odology in 10 CFR 50.7:	5(c) to calculate a	n inflation fac	ctor to apply to a cost esti	mate.
NRC Decommissioning (Cost	Unit # 3			
January 1986 NRC Decon		105,000,00	0 Cost	for a PRW plant over 3	3,400 MW
Composite Escalation	0	3.9250		(The 1,700 MWe new units a	-
2008 Decommissioning C		412,131,74	-	approximately 5,100 MV	•
ed on a generic pressurized boiler re				ry (actual inflation factors	through 12/20
ed on a generie pressurized soner re		obt using the trice	e memodolog		, unough 12,20
	Escalate tl	he Cost to I	License I	Date	
Update the NRC cost to		<u>Unit # 3</u>		<u>Unit # 4</u>	
Decommissioning Cost (2)	008 \$'s) \$	412,131,74	1 \$	412,131,741	
Annual inflation	multiplier: 4.11%	132.57%		138.02%	
	ost S	546,365,40	0		
2015 Decommissioning Co					
2015 Decommissioning Co 2016 Decommissioning Co			\$	568,821,018	

CPSES Decommissioning Cost Estimate

Definitions:

Estimated Cost (Year x) = estimated decommissioning costs in Year x dollars = 19	986 \$ Cost ~ (A Lx – B Ex	+ C Bx)
1986 \$ Cost – estimated decommissioning costs in 1986 dollars [\$ thousands]	\$ 1	05,000
A – fraction of the 1986 \$ Cost attributable to labor, materials and services -		0.65
B – fraction of the 1986 \$ Cost attributable to energy and transportation -		0.13
C – fraction of the 1986 \$ Cost attributable to waste burial =		0.22
Lx = labor, materials, services cost adjustment, December 2005 to December Year x:	Lx base =	1.980
Ex = energy and waste transportation cost adjustment, Jan 1986 to Jan Year x:	Fraction due to P =	.58
	Fraction due to F =	.42
Bx = radioactive waste burial/disposition and surcharge cost adjustment.		

Bx = radioactive waste burial/disposition and surcharge cost adjustment, January 1986 to nominally January Year x (i.e., burial/disposition cost in Nominally January Year x / burial cost in January 1986)

Calculation timing:

Formal calculations are performed as soon as January data are available on the internet, usually mid-February. However, December data are used for labor, since January data are never available. These official calculations use the most current NUREG-1307 data available at that time.

Labor and Energy Input Data:

Copy and paste three Series IDs, Retrieve data:

	Series ID	Index	Factor	2008 Index	2007 L.P.& F Factors
Lx (NUREG 1307/R13)=	CIU20100000220I(2005)	1.980	1.000	108.5	2.148
Px (NUREG 1307/R13)=	wpu0543(1986)	114.2	1.000	185.2	1.622
Fx (NUREG 1307/R13)=	wpu0573(1986)	82.0	1.000	352.5	4.299
Ex (NUREG 1307/R13)=	-1986	100.7	1.000	255.5	2.746

LLW Disposal Input Data:

LLW Disposal Factors are from UTDG Mailing of 3/04/08.	1986 Factor	2006 LLW Disposal Factors
Bx (latest as of Jan Year x) =	1.000	25.231 9.872
Year 2009 Calculation:		
Total Year x cost adjustment = Year x cost [\$ thousands] =	1.000 \$105 000	All BurialRecycling7.3043.925\$766,942\$412,149

NRC Financial Assurance Report for Comanche Peak Units 3 and 4

Luminant Generation Company LLC - Comanche Peak Steam Electric Station (CPSES)

2 A schedule of the annual amounts remaining to be collected for items in 10 CFR 50.75 (b) and (c).

Niethod #2	2 - Annual C	ont	ributions for	Exte	U	Fund	
			<u>Unit # 3</u>		<u>Unit # 4</u>		<u>Total</u>
Annual Amounts		\$	8,955,928	\$	9,324,017	\$	18,279,946
Year 2016		\$	8,955,928				8,955,928
Years 2017 through 2055	(39 years)		349,281,211	\$	363,636,669	\$	712,917,880
Year 2056					9,324,017		9,324,017
	Totals	\$	358,237,140	\$	372,960,686	\$	731,197,826

	<u>Unit # 3</u>		<u>Unit # 4</u>	<u>Total</u>
Annual Amounts	\$ 7,509,140	\$	7,817,766	\$ 15,326,9
Year 2016	\$ 7,509,140			7,509,1
Years 2017 through 2039 (23 years)	172,710,224	\$	179,808,614	\$ 352,518,8
Year 2040			7,817,766	 7,817,7
Totals	\$ 180,219,364	\$	187,626,380	\$ 367,845,7
Unit #3: 16 years of payments, each equal to	\$ 7,509,140	has a	present value of	\$ 103,996,0
Unit #4: 16 years of payments, each equal to	\$ 7,817,766	has a	present value of	\$ 108,270,2

NOTE: Method #3 is based on the PUC Substantive Rule 25.304 provision that requires prefunding or letter of credit for the present value of 16 years of annual contributions for the rate payers to provide backup to the External Sinking Funding method.

NRC Financial Assurance Report for Comanche Peak Units 3 and 4

Luminant Generation Company LLC - Comanche Peak Steam Electric Station (CPSES)

3 Basis for two methods: Prepayment and External Sinking Fund.

Thompson, John

From:	Woodlan, Don
Sent:	Monday, April 16. 2007 1:49 PM
To :	Thompson, John
Cc:	Seawright, Jimmy; Bird , Bobby; Blaikie, Trudy Kay; Buschbaum, Denny; Carver, Ronald;
	Evans, Todd; Gilder, Tim; Jackson, Harold Chuck; Kesterson, Terry; Lucas, Mitch; Reible,
	Robert; Simmons, Jeff; Turner, Bruce; Walling, Dale; Weeks, Matthew; Duke Wheeler

Subject: 2007-04-16 Decommissioning Funding Report for CPSES 3&4

John,

Here are some basic inputs for the funding report. The information is subject to change but should be adequate for the calculations for our license application:

Type of reactor: US-APWR by Mitsubishi, 1700MWe, PWR light water reactor Two units (CPSES Unit 3 and CPSES Unit 4) Estimated on line: Unit 3 - 2016 and Unit 4 – 2017

The individual I talked to at the NRC is Michael Dusaniwskyj (301 -415- 1260). He mentioned using NUREG-1307 Rev 12 for the factors to adjust from 1986 to 2006. I like you idea of presenting two options.

The applicable regulations seem 10 be 10 CFR 50.75(b) and 10 CFR 50.33 (k) - you probably already knew that but I thought I would add the info just in case. As I understand the requirements, the primary thing is that we certify that financial assurance for radiological decommissioning will be provided. The amount will be based on 10 CFR 50.75(c)(1).

If you have any questions, give me a call or send me an email.

Thanks,

Donald R Woodlan Dwoodla1@txu.com Office 254-897-6887, fax 254-897-6890 Cell 214-542-7761, home 972-229-1616

NRC Financial Assurance Report for Comanche Peak Units 3 and 4 - Method #1 - Prepayment

Luminant Generation Company LLC - Comanche Peak Steam Electric Station (CPSES)

1 The NR0	0 CF	Return (Asset Return - E R 50.75(e)(ii).	scalation Rate) of 2% as pr	ovided for in	
	C orit				
ΔТ		eria is a simple comparis	on of:		
A The minimum amount of decommissioning funds estimated to be required.					
C	Comp	ared to:			
ВТ	1. Th 2. Ar	um of the following: le assets accumulated a nounts remaining to be o nount of Real Return ove		lendar year.	
Results:		Total	12/31/2015 Unit #3	12/31/2016 Unit #4	
Α	NRC	1,115,186,418	546,365,400	568,821,018	
Collec Real R	eturn	505,057,240 0 <u>610,129,179</u> 1,115,186,419	247,443,653 0 298,921,747 546,365,400	257,613,587 0 311,207,431 568,821,018	
NRC Re Based on NRC		Funded: 100.0% Passed	Funded: 100.0% Passed	Funded: 100.0% Passed	

NRC Financial Assurance Report for Comanche Peak Units 3 and 4 - Method #1 - Prepayment Luminant Generation Company LLC - Comanche Peak Steam Electric Station (CPSES)

		R	eal Return	
Year	Contribution	Rate	Return/Earnings	Balance
2015				047 442 652 02
2015 1 2016	0.00	2 0.0%	4 049 972 06	247,443,653.03
		2.00%	4,948,873.06	252,392,526.10
2 2017	0.00	2.00%	5,047,850.52	257,440,376.62
3 2018	0.00	2.00%	5,148,807.53	262,589,184.15
4 2019	0.00	2.00%	5,251,783.68	267,840,967.83
5 2020	0.00	2.00%	5,356,819.36	273,197,787.19
6 2021	0.00	2.00%	5,463,955.74	278,661,742.93
7 2022	0.00	2.00%	5,573,234.86	284,234,977.79
8 2023	0.00	2.00%	5,684,699.56	289,919,677.35
9 2024	0.00	2.00%	5,798,393.55	295,718,070.89
10 2025	0.00	2.00%	5,914,361.42	301,632,432.31
11 2026	0.00	2.00%	6,032,648.65	307,665,080.96
12 2027	0.00	2.00%	6,153,301.62	313,818,382.58
13 2028	0.00	2.00%	6,276,367.65	320,094,750.23
14 2029	0.00	2.00%	6,401,895.00	326,496,645.23
15 2030	0.00	2.00%	6,529,932.90	333,026,578.14
16 2031	0.00	2.00%	6,660,531.56	339,687,109.70
17 2032	0.00	2.00%	6,793,742.19	346,480,851.90
18 2033	0.00	2.00%	6,929,617.04	353,410,468.93
19 2034	0.00	2.00%	7,068,209.38	360,478,678.31
20 2035	0.00	2.00%	7,209,573.57	367,688,251.88
21 2036	0.00	2.00%	7,353,765.04	375,042,016.92
22 2037	0.00	2.00%	7,500,840.34	382,542,857.25
23 2038	0.00	2.00%	7,650,857.15	390,193,714.40
24 2039	0.00	2.00%	7,803,874.29	397,997,588.69
25 2040	0.00	2.00%	7,959,951.77	405,957,540.46
26 2041	0.00	2.00%	8,119,150.81	414,076,691.27
27 2042	0.00	2.00%	8,281,533.83	422,358,225.10
28 2043	0.00	2.00%	8,447,164.50	430,805,389.60
29 2044	0.00	2.00%	8,616,107.79	439,421,497.39
30 2045	0.00	2.00%	8,788,429.95	448,209,927.34
31 2046	0.00	2.00%	8,964,198.55	457,174,125.88
32 2047	0.00	2.00%	9,143,482.52	466,317,608.40
33 2048	0.00	2.00%	9,326,352.17	475,643,960.57
34 2049	0.00	2.00%	9,512,879.21	485,156,839.78
35 2050	0.00	2.00%	9,703,136.80	494,859,976.58
36 2051	0.00	2.00%	9,897,199.53	504,757,176.11
37 2052	0.00	2.00%	10,095,143.52	514,852,319.63
38 2053	0.00	2.00%	10,297,046.39	525,149,366.02
39 2054	0.00	2.00%	10,502,987.32	535,652,353.34
40 2055	0.00	2.00%	10,713,047.07	546,365,400.41
2056	0.00	,		0.0,000,100111
Totals	0.00		298,921,747.38	ок

NRC Financial Assurance Report for Comanche Peak Units 3 and 4 - Method #1 - Prepayment Luminant Generation Company LLC - Comanche Peak Steam Electric Station (CPSES)

	CPS	SES: Un	it 4 NDT	
		Re	eal Return	
Year	Contribution	Rate	Return/Earnings	Balance
2015				
2016				257,613,587.18
1 2017	0.00	2.00%	5,152,271.74	262,765,858.92
2 2018	0.00	2.00%	5,255,317.18	268,021,176.10
3 2019	0.00	2.00%	5,360,423.52	273,381,599.62
4 2020	0.00	2.00%	5,467,631.99	278,849,231.61
5 2021	0.00	2.00%	5,576,984.63	284,426,216.24
6 2022	0.00	2.00%	5,688,524.32	290,114,740.57
7 2023	0.00	2.00%	5,802,294.81	295,917,035.38
8 2024	0.00	2.00%	5,918,340.71	301,835,376.09
9 2025	0.00	2.00%	6,036,707.52	307,872,083.61
10 2026	0.00	2.00%	6,157,441.67	314,029,525.28
11 2027	0.00	2.00%	6,280,590.51	320,310,115.79
12 2028	0.00	2.00%	6,406,202.32	326,716,318.10
13 2029	0.00	2.00%	6,534,326.36	333,250,644.47
14 2030	0.00	2.00%	6,665,012.89	339,915,657.35
15 2031	0.00	2.00%	6,798,313.15	346,713,970.50
16 2032	0.00	2.00%	6,934,279.41	353,648,249.91
17 2033	0.00	2.00%	7,072,965.00	360,721,214.91
18 2034	0.00	2.00%	7,214,424.30	367,935,639.21
19 2035	0.00	2.00%	7,358,712.78	375,294,351.99
20 2036	0.00	2.00%	7,505,887.04	382,800,239.03
21 2037	0.00	2.00%	7,656,004.78	390,456,243.81
22 2038	0.00	2.00%	7,809,124.88	398,265,368.69
23 2039	0.00	2.00%	7,965,307.37	406,230,676.06
24 2040	0.00	2.00%	8,124,613.52	414,355,289.58
25 2041	0.00	2.00%	8,287,105.79	422,642,395.38
26 2042 27 2043	0.00	2.00%	8,452,847.91	431,095,243.28
	0.00	2.00%	8,621,904.87	439,717,148.15 448,511,491.11
28 2044 29 2045	0.00 0.00	2.00% 2.00%	8,794,342.96	457,481,720.93
			8,970,229.82	466,631,355.35
	0.00	2.00%	9,149,634.42 9,332,627.11	475,963,982.46
31 2047 32 2048	0.00 0.00	2.00% 2.00%	9,519,279.65	485,483,262.11
33 2049	0.00	2.00%		495,192,927.35
34 2050	0.00		9,709,665.24	505,096,785.90
34 2050 35 2051	0.00	2.00% 2.00%	9,903,858.55 10,101,935.72	515,198,721.62
36 2052	0.00	2.00%	10,303,974.43	525,502,696.05
37 2053	0.00	2.00%	10,510,053.92	536,012,749.97
38 2054	0.00	2.00%	10,720,255.00	546,733,004.97
38 2054 39 2055	0.00	2.00%	10,934,660.10	546,753,004.97
40 2056	0.00	2.00%	11,153,353.30	568,821,018.37
		2.00 /0		
Totals	0.00	:	311,207,431.19	ок

NOTE: The Real Return Rate is 2.0% as provide for in 10 CFR 50.75(e)(ii).

NRC Financial Assurance Report for Comanche Peak Units 3 and 4 - Method #2 - External Sinking Fund

Luminant Generation Company LLC - Comanche Peak Steam Electric Station (CPSES)

		Projected F	inonoial		
			manciai	Assurance F	Results
		Return (Asset Retur R 50.75(e)(ii).	n - Escalati	on Rate) of 2% as	provided for in
The NR	C crit	eria is a simple com	parison of:		
Α	The n	ninimum amount o	f decommi	ssioning funds e	stimated to be required.
	Comp	ared to:			
В	1. Tł 2. Ar	um of the following ne assets accumulat mounts remaining to mount of Real Retur	ted at the end to be collected	ed.	calendar year.
Results	:	Total		12/31/2015 Unit #3	12/31/2016 Unit #4
Α	NRC	1,115,186,419		546,365,400	568,821,018
Colle	Assets ctions Return Total	0 731,197,826 <u>383,988,593</u> 1,115,186,419		0 358,237,140 188,128,261 546,365,400	0 372,960,686 <u>195,860,332</u> 568,821,018
NRC R Based on NR		Funded: 100.0% Passed		Funded: 100.0% Passed	Funded: 100.0% Passed

NRC Financial Assurance Report for Comanche Peak Units 3 and 4 - Method #2 - External Sinking Fund Luminant Generation Company LLC - Comanche Peak Steam Electric Station (CPSES)

		F	Real Return	
Year	Contribution	Rate	Return/Earnings	Balance
2015				0.00
1 2016	8,955,928.49	2.00%	89,559.28	9,045,487.77
2 2017	8,955,928.49	2.00%	270,469.04	18,271,885.31
3 2018	8,955,928.49	2.00%	454,996.99	27,682,810.79
4 2019	8,955,928.49	2.00%	643,215.50	37,281,954.78
5 2020	8,955,928.49	2.00%	835,198.38	47,073,081.65
6 2021	8,955,928.49	2.00%	1,031,020.92	57,060,031.06
7 2022	8,955,928.49	2.00%	1,230,759.91	67,246,719.45
8 2023	8,955,928.49	2.00%	1,434,493.67	77,637,141.62
9 2024	8,955,928.49	2.00%	1,642,302.12	88,235,372.22
10 2025	8,955,928.49	2.00%	1,854,266.73	99,045,567.44
11 2026	8,955,928.49	2.00%	2,070,470.63	110,071,966.57
12 2027	8,955,928.49	2.00%	2,290,998.62	121,318,893.67
13 2028	8,955,928.49	2.00%	2,515,937.16	132,790,759.32
14 2029	8,955,928.49	2.00%	2,745,374.47	144,492,062.28
15 2030	8,955,928.49	2.00%	2,979,400.53	156,427,391.30
16 2031	8,955,928.49	2.00%	3,218,107.11	168,601,426.90
17 2032	8,955,928.49	2.00%	3,461,587.82	181,018,943.22
18 2033	8,955,928.49	2.00%	3,709,938.15	193,684,809.85
19 2034	8,955,928.49	2.00%	3,963,255.48	206,603,993.83
20 2035	8,955,928.49	2.00%	4,221,639.16	219,781,561.48
21 2036	8,955,928.49	2.00%	4,485,190.51	233,222,680.48
22 2037	8,955,928.49	2.00%	4,754,012.89	246,932,621.87
23 2038	8,955,928.49	2.00%	5,028,211.72	260,916,762.08
24 2039	8,955,928.49	2.00%	5,307,894.53	275,180,585.10
25 2040	8,955,928.49	2.00%	5,593,170.99	289,729,684.57
26 2041	8,955,928.49	2.00%	5,884,152.98	304,569,766.04
27 2042	8,955,928.49	2.00%	6,180,954.61	319,706,649.13
28 2043	8,955,928.49	2.00%	6,483,692.27	335,146,269.89
29 2044	8,955,928.49	2.00%	6,792,484.68	350,894,683.07
30 2045	8,955,928.49	2.00%	7,107,452.95	366,958,064.50
31 2046	8,955,928.49	2.00%	7,428,720.57	383,342,713.57
32 2047	8,955,928.49	2.00%	7,756,413.56	400,055,055.61
33 2048	8,955,928.49	2.00%	8,090,660.40	417,101,644.50
34 2049	8,955,928.49	2.00%	8,431,592.17	434,489,165.16
35 2050	8,955,928.49	2.00%	8,779,342.59	452,224,436.24
36 2051	8,955,928.49	2.00%	9,134,048.01	470,314,412.74
37 2052	8,955,928.49	2.00%	9,495,847.54	488,766,188.77
38 2053	8,955,928.49	2.00% 2.00%	9,864,883.06	507,587,000.32
39 2054	8,955,928.49		10,241,299.29	526,784,228.10
40 2055 2056	8,955,928.49	2.00%	10,625,243.85	546,365,400.44
Totals	358,237,139.60		188,128,260.84	ок

NRC Financial Assurance Report for Comanche Peak Units 3 and 4 - Method #2 - External Sinking Fund Luminant Generation Company LLC - Comanche Peak Steam Electric Station (CPSES)

		F	Real Return	
Year	Contribution	Rate	Return/Earnings	Balance
2015				
2016				0.00
1 2017	9,324,017.15	2.00%	93,240.17	9,417,257.32
2 2018	9,324,017.15	2.00%	281,585.32	19,022,859.79
3 2019	9,324,017.15	2.00%	473,697.37	28,820,574.31
4 2020	9,324,017.15	2.00%	669,651.66	38,814,243.12
5 2021	9,324,017.15	2.00%	869,525.03	49,007,785.30
6 2022	9,324,017.15	2.00%	1,073,395.88	59,405,198.33
7 2023	9,324,017.15	2.00%	1,281,344.14	70,010,559.62
8 2024	9,324,017.15	2.00%	1,493,451.36	80,828,028.14
9 2025 10 2026	9,324,017.15 9,324,017.15	2.00% 2.00%	1,709,800.73 1,930,477.09	91,861,846.02
1 2027	9,324,017.15	2.00%	2,155,566.98	103,116,340.26 114,595,924.39
2 2028	9,324,017.15	2.00%	2,385,158.66	126,305,100.20
3 2029	9,324,017.15	2.00%	2,619,342.18	138,248,459.53
4 2030	9,324,017.15	2.00%	2,858,209.36	150,430,686.04
5 2031	9,324,017.15	2.00%	3,101,853.89	162,856,557.09
6 2032	9,324,017.15	2.00%	3,350,371.31	175,530,945.55
7 2033	9,324,017.15	2.00%	3,603,859.08	188,458,821.78
8 2034	9,324,017.15	2.00%	3,862,416.61	201,645,255.54
9 2035	9,324,017.15	2.00%	4,126,145.28	215,095,417.97
0 2036	9,324,017.15	2.00%	4,395,148.53	228,814,583.66
1 2037	9,324,017.15	2.00%	4,669,531.84	242,808,132.65
2 2038	9,324,017.15	2.00%	4,949,402.82	257,081,552.63
3 2039	9,324,017.15	2.00%	5,234,871.22	271,640,441.00
4 2040	9,324,017.15	2.00%	5,526,048.99	286,490,507.15
5 2041	9,324,017.15	2.00%	5,823,050.31	301,637,574.61
6 2042	9,324,017.15	2.00%	6,125,991.66	317,087,583.43
7 2043	9,324,017.15	2.00%	6,434,991.84	332,846,592.42
8 2044	9,324,017.15	2.00%	6,750,172.02	348,920,781.59
9 2045	9,324,017.15	2.00%	7,071,655.80	365,316,454.54
0 2046	9,324,017.15	2.00%	7,399,569.26	382,040,040.96
1 2047	9,324,017.15	2.00%	7,734,040.99	399,098,099.10
2 2048	9,324,017.15	2.00%	8,075,202.15	416,497,318.40
3 2049	9,324,017.15	2.00%	8,423,186.54	434,244,522.09
4 2050	9,324,017.15	2.00%	8,778,130.61	452,346,669.86
5 2051 6 2052	9,324,017.15	2.00%	9,140,173.57 9,509,457.38	470,810,860.58
6 2052 7 2053	9,324,017.15 9,324,017.15	2.00% 2.00%	9,509,457.38 9,886,126.87	489,644,335.11 508,854,479.13
7 2053 8 2054	9,324,017.15	2.00%	9,886,126.87 10,270,329.75	528,448,826.04
8 2054 9 2055		2.00%		528,448,826.04
9 2055 0 2056	9,324,017.15 9,324,017.15	2.00%	10,662,216.69 11,061,941.37	568,821,018.40
Totals	372,960,686.04	2.00 /0	195,860,332.36	500,021,010.40

NRC Financial Assurance Report for Comanche Peak Units 3 and 4 - PUC supported Sinking Fund

Luminant Generation Company LLC - Comanche Peak Steam Electric Station (CPSES)

Used		Return (Asset Return - E R 50.75(e)(ii).	scalation Rate) of 2% as p	rovided for in
The N	IRC crit	eria is a simple comparis	son of:	
Α	The n	ninimum amount of dec	commissioning funds est	imated to be requi
	Comp	pared to:		
В	1. TI 2. Ai	tum of the following: The assets accumulated a mounts remaining to be o mount of Real Return over		alendar year.
Resul	ts:	Total	12/31/2015 Unit #3	12/31/2016 Unit #4
Α	NRC	1,115,186,418	546,365,400	568,821,018
	Assets llections l Return Total	212,266,360 367,845,744 535,074,313 1,115,186,418	103,996,061 180,219,364 <u>262,149,975</u> 546,365,400	108,270,299 187,626,380 272,924,339 568,821,018
	Result	Funded: 100.0%	Funded: 100.0% Passed	Funded: 100.0% Passed
		1 45500	1 85504	1 0000

NRC Financial Assurance Report for Comanche Peak Units 3 and 4 - PUC supported Sinking Fund Luminant Generation Company LLC - Comanche Peak Steam Electric Station (CPSES)

		Real Return				
Year	Contribution	Rate	Return/Earnings	Balance		
2015				103,996,061.01		
1 2016	7,509,140.18	2.00%	2,155,012.62	113,660,213.81		
2 2017	7,509,140.18	2.00%	2,348,295.68	123,517,649.66		
3 2018	7,509,140.18	2.00%	2,545,444.40	133,572,234.24		
4 2019	7,509,140.18	2.00%	2,746,536.09	143,827,910.50		
5 2020	7,509,140.18	2.00%	2,951,649.61	154,288,700.29		
6 2021	7,509,140.18	2.00%	3,160,865.41	164,958,705.88		
7 2022	7,509,140.18	2.00%	3,374,265.52	175,842,111.58		
8 2023	7,509,140.18	2.00%	3,591,933.63	186,943,185.39		
9 2024	7,509,140.18	2.00%	3,813,955.11	198,266,280.68		
10 2025	7,509,140.18	2.00%	4,040,417.02	209,815,837.88		
11 2026	7,509,140.18	2.00%	4,271,408.16	221,596,386.21		
12 2027	7,509,140.18	2.00%	4,507,019.13	233,612,545.52		
13 2028	7,509,140.18	2.00%	4,747,342.31	245,869,028.01		
14 2029 15 2030	7,509,140.18 7,509,140.18	2.00%	4,992,471.96	258,370,640.15		
15 2030 16 2031	7,509,140.18	2.00% 2.00%	5,242,504.20 5,497,537.09	271,122,284.54 284,128,961.81		
17 2032	7,509,140.18	2.00%	5,757,670.64	297,395,772.63		
18 2033	7,509,140.18	2.00%	6,023,006.85	310,927,919.66		
19 2034	7,509,140.18	2.00%	6,293,649.79	324,730,709.63		
20 2035	7,509,140.18	2.00%	6,569,705.59	338,809,555.41		
21 2036	7,509,140.18	2.00%	6,851,282.51	353,169,978.10		
22 2037	7,509,140.18	2.00%	7,138,490.96	367,817,609.24		
23 2038	7,509,140.18	2.00%	7,431,443.59	382,758,193.01		
24 2039	7,509,140.18	2.00%	7,730,255.26	397,997,588.45		
25 2040		2.00%	7,959,951.77	405,957,540.22		
26 2041		2.00%	8,119,150.80	414,076,691.02		
27 2042		2.00%	8,281,533.82	422,358,224.84		
28 2043		2.00%	8,447,164.50	430,805,389.34		
29 2044		2.00%	8,616,107.79	439,421,497.12		
30 2045		2.00%	8,788,429.94	448,209,927.07		
31 2046		2.00%	8,964,198.54	457,174,125.61		
32 2047		2.00%	9,143,482.51	466,317,608.12		
33 2048		2.00%	9,326,352.16	475,643,960.28		
34 2049		2.00%	9,512,879.21	485,156,839.49		
35 2050		2.00%	9,703,136.79	494,859,976.28		
36 2051		2.00%	9,897,199.53	504,757,175.80		
37 2052		2.00%	10,095,143.52	514,852,319.32		
38 2053		2.00%	10,297,046.39	525,149,365.71		
39 2054 10 2055		2.00%	10,502,987.31	535,652,353.02		
40 2055 2056		2.00%	10,713,047.06	546,365,400.08		
Totals	180,219,364.30		262,149,974.77	ок		

NRC Financial Assurance Report for Comanche Peak Units 3 and 4 - PUC supported Sinking Fund Luminant Generation Company LLC - Comanche Peak Steam Electric Station (CPSES)

CPSES: Unit 4 NDT						
	• • • • •		eal Return			
Year	Contribution	Rate	Return/Earnings	Balance		
2015						
2016				108,270,299.05		
1 2017	7,817,765.84	2.00%	2,243,583.64	118,331,648.52		
2 2018	7,817,765.84	2.00%	2,444,810.63	128,594,224.99		
3 2019	7,817,765.84	2.00%	2,650,062.16	139,062,052.98		
4 2020	7,817,765.84	2.00%	2,859,418.72	149,739,237.54		
5 2021	7,817,765.84	2.00%	3,072,962.41	160,629,965.78		
6 2022	7,817,765.84	2.00%	3,290,776.97	171,738,508.59		
7 2023	7,817,765.84	2.00%	3,512,947.83	183,069,222.26		
8 2024	7,817,765.84	2.00%	3,739,562.10	194,626,550.20		
9 2025	7,817,765.84	2.00%	3,970,708.66	206,415,024.70		
10 2026	7,817,765.84	2.00%	4,206,478.15	218,439,268.69		
11 2027 12 2028	7,817,765.84 7,817,765.84	2.00% 2.00%	4,446,963.03 4,692,257.61	230,703,997.55		
12 2028	7,817,765.84	2.00%	4,942,458.08	243,214,021.00 255,974,244.91		
14 2030	7,817,765.84	2.00%	4,942,458.08 5,197,662.56	268,989,673.31		
15 2031	7,817,765.84	2.00%	5,457,971.12	282,265,410.27		
16 2032	7,817,765.84	2.00%	5,723,485.86	295,806,661.97		
17 2033	7,817,765.84	2.00%	5,994,310.90	309,618,738.70		
18 2034	7,817,765.84	2.00%	6,270,552.43	323,707,056.97		
19 2035	7,817,765.84	2.00%	6,552,318.80	338,077,141.60		
20 2036	7,817,765.84	2.00%	6,839,720.49	352,734,627.93		
21 2037	7,817,765.84	2.00%	7,132,870.22	367,685,263.98		
22 2038	7,817,765.84	2.00%	7,431,882.94	382,934,912.75		
23 2039	7,817,765.84	2.00%	7,736,875.91	398,489,554.50		
24 2040	7,817,765.84	2.00%	8,047,968.75	414,355,289.09		
25 2041		2.00%	8,287,105.78	422,642,394.87		
26 2042		2.00%	8,452,847.90	431,095,242.77		
27 2043		2.00%	8,621,904.86	439,717,147.62		
28 2044		2.00%	8,794,342.95	448,511,490.58		
29 2045		2.00%	8,970,229.81	457,481,720.39		
30 2046		2.00%	9,149,634.41	466,631,354.80		
31 2047		2.00%	9,332,627.10	475,963,981.89		
32 2048		2.00%	9,519,279.64	485,483,261.53		
33 2049		2.00%	9,709,665.23	495,192,926.76		
34 2050		2.00%	9,903,858.54	505,096,785.29		
35 2051		2.00%	10,101,935.71	515,198,721.00		
36 2052 37 2053		2.00% 2.00%	10,303,974.42	525,502,695.42		
37 205338 2054		2.00%	10,510,053.91 10,720,254.99	536,012,749.33 546,733,004.32		
38 2054 39 2055		2.00%	10,720,254.99	546,733,004.32 557,667,664.40		
40 2056		2.00%	11,153,353.29	568,821,017.69		
Totals	187,626,380.06	2.00 /0	272,924,338.58			
10(015	101,020,000.00		212,027,000.00	ОК		

Comanche Peak Nuclear Power Plant, Units 3 & 4 COL Application Part 1, Administrative and Financial Information

ATTACHMENT 2 Financial Report Links

EFH,EFC Holdings, TCEH and MHI provide the following information consistent with 10 CFR 50.33(f), 10CFR 50 App C, and NUREG-15777, Rev. 1 to demonstrate that Luminant, and specifically, CPNPC individually and collectively possess or have reasonable assurance of obtaining the funds necessary to cover estimated construction costs and related fuel cycle costs.

Historical financial information for EFH and its subsidiaries is available in annual (SEC Form 10-K), quarterly (SEC Form 10-Q) and current (SEC Form 8-K) reports filed with the Securities and Exchange Commission (SEC). The public may read and copy any reports or other information that EFH files with the SEC at its Public Reference Room at 100 F Street, NE., Washington, D.C. 20549 and EFH's website at <u>www.energyfutureholdings.com</u> . EFH reports are also available to the public without charge from the website maintained by the SEC at <u>www.sec.gov</u> and EFH's website at <u>www.energyfutureholdings.com</u>.

Financial information filed with the SEC for EFH and its subsidiaries and MHI reporting of its financial information for itself and its subsidiaries supports the conclusion that these companies possess or have reasonable assurance of being able to obtain, funds sufficient for the construction and operation of two units at the Comanche Peak site based on the US-APWR technology.

EFH 10-K December 31, 2008

http://phx.corporate-ir.net/phoenix.zhtml?c=102498&p=irol-SECText&TEXT=aHR0cDovL2NjYm4uMTBrd2l6YXJkLmNvbS94bWwvZmlsaW5nLnhtbD9yZX BvPXRlbmsmaXBhZ2U9NjE4NTcwOSZhdHRhY2g9T04mc1hCUkw9MQ%3d%3d

EFCH 10-K December 31, 2008

http://phx.corporate-ir.net/phoenix.zhtml?c=102498&p=irol-SECText&TEXT=aHR0cDovL2NjYm4uMTBrd2l6YXJkLmNvbS94bWwvZmlsaW5nLnhtbD9yZX BvPXRlbmsmaXBhZ2U9NjE4NTcwOSZhdHRhY2g9T04mc1hCUkw9MQ%3d%3d

TCEH 10K December 31, 2008

http://www.energyfutureholdings.com/pdf/Texas Competitive Electric Holdings Company LLC December 31 2008%20Financials.pdf

MHI Annual Report March 31, 2009

http://www.mhi.co.jp/en/finance/library/contents/pdf/annual_2009.pdf

Comanche Peak Nuclear Power Plant, Units 3 & 4 COL Application Part 1, Administrative and Financial Information

Table 1.3-1aSummary of Project Financial Plans

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Comanche Peak Nuclear Power Plant, Units 3 & 4 COL Application Part 1, Administrative and Financial Information

Table 1.3-1b Comanche Peak Unit 3 and Unit 4 Financials Estimate of Construction 3 & 4

Estimate of Construction Costs	\$ Millions	Percent	
]	[]	[
[]	[]]	
[[]]	
Total estimated cost	·····	r	

Table 1.3-1c Comanche Peak Unit 3 and Unit 4 Financials Sources and Uses of Funds– Construction Units 3 & 4

Sources	\$ Millions	Percent	Uses	\$ Millions	Percent
[]			[]		
[]	[]	[]	[]	[]]
[]	[]	[]	[]	[]]]
[]	[]	[]	[]	[]]
[]	[]	[]	[]	[]]
			[]	[]	[
[]			[]	[]]
[]	[]	[]	[]	[]	[
[]		[]	[]	[]]
			[]	[]]
[]	[]	[]	[]	[]	[]
[]	[]	[]	[]	[]	[]

Comanche Peak Nuclear Power Plant, Units 3 & 4 COL Application Part 1, Administrative and Financial Information

Table 1.3-2Comanche Peak Unit 3 and Unit 4 FinancialsUnit 3 and Unit 4 Operations and Maintenance Costs1First Five Years

(\$ millions)	[]	[]	[]	[]	[]
[]	 []	[]	[]	[]	[]
[]					
	 []	[]	[]	[]	[]
	 []	[]	[]	[]	[]
	 []	[]	[]		[]
	·····				
	L J	L.J.	LJ	L.J.	L J
		[]	[]	[]	[]
	 []	[]	[]	[]	[]
[]	[]	[]	[]	[]	[]
	[]	[]	[]	[]	[]
[]	[]	[]	[]	[]	[]

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Comanche Peak Nuclear Power Plant, Units 3 & 4 COL Application Part 1, Administrative and Financial Information

Table 1.3-3 Unit 3 and Unit 4 Plant Performance

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Comanche Peak Nuclear Power Plant, Units 3 & 4 COL Application Part 1, Administrative and Financial Information

Table 1.3-4Comanche Peak Unit 3 and Unit 4 Financials,
Market Price Projection

The market price projection for the Pro forma was:

YEAR	2009 Real \$
[]	[]
[]	[]
[]	[]
[]	[]
[]	[]
[]	[]
[]	[]
[]	[]
[]	[]
[]	[]
[]	[]
[]	[]
[]	[]
[]	[]
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[]	[]
[]	[]
[]	[]