1	Q.	WAS THIS EXHIBIT PREPARED BY YOU OR UNDER YOUR DIRECT
2		SUPERVISION?
3	A.	Yes.
4		
5	Q.	DO YOU SPONSOR OR CO-SPONSOR ANY SCHEDULES?
6	A.	Yes. I co-sponsor the cost of service schedules listed in the table of contents.
7		
8 9		III. OVERVIEW OF SPONSORED COST ESTIMATES <u>AND CONSTRUCTION STATUS</u>
10	Q.	WHAT COSTS DO YOU SPONSOR?
11	A.	I sponsor capital investment in three switching substations, two series
12		compensation stations and the transmission lines that together comprise the CREZ
13		project (referred to hereafter as the "Project"). Specifically, I sponsor capital
14		investment of \$45,935,140 for purposes of the requested interim rates, and
15		\$534,109,273 for purposes of the requested final rates, for a total of
16		\$580,044,413. I would note that this total amount does not include the costs
17		associated with overall project development and AFUDC.
18		
19	Q.	HOW WERE THE COSTS ASSOCIATED WITH ENGINEERING,
20		DESIGN, PROCUREMENT AND CONSTRUCTION OF THE
21		SUBSTATIONS, SERIES COMPENSATION STATIONS AND
22		TRANSMISSION LINES DEVELOPED?
23	A.	Lone Star hired Electrical Consultants Incorporated ("ECI") to perform the
24		preliminary engineering work associated with the Project. Based on the preferred

and alternate routes selected during the CCN application, ECI identified pole locations and prepared cost estimates for the routes. ECI's cost estimates also included the three substations and two series compensation stations and the additional reactive equipment requirements. ECI developed bills of materials, determined equipment and labor requirements and obtained market cost estimates for the substations and transmission lines. ECI then provided these estimates to Lone Star, which vetted the cost data, updated and escalated market cost estimates for materials, equipment and labor and added related administrative and general ("A&G") costs and sales taxes.

After the Commission approved the transmission line route and granted Lone Star its CCN, and subsequent to the Company's preliminary engineering, Lone Star awarded, following a competitive bid process, the detailed design transmission engineering to Peak Power ("Peak"), a division of Universal Pegasus International. Peak began pole spotting along the approved route, deviating where required by Commission requirements or landowner-requested route modifications. Peak worked on detailed pole designs and specifications. These pole designs and specifications were standardized where applicable to ensure consistency throughout the project design. A detailed scope of work and drawings were incorporated into a construction bid package. After a competitive bid process, Lone Star entered into two major, fixed-price date-certain Procurement and Construction ("PC") contracts. These are turn-key contracts that, together, obligate the PC contractors to procure materials and construct the

transmission lines. The PC contractors are obligated to satisfy all testing and commissioning requirements before acceptance. The purchase order amounts for these major contracts were used as a basis to revise the overall cost estimate. As changes to the scope of the project occurred, costs were adjusted based upon the unit rates in the awarded labor contracts or through the contract change order process. The owner supplied equipment purchase order amounts were then incorporated into the cost estimate. Finally, the estimate included all other applicable internal costs such as A&G and sales taxes.

In addition, after additional competitive bids, Lone Star entered into two major,

In addition, after additional competitive bids, Lone Star entered into two major, fixed-price date-certain Engineering, Procurement and Construction ("EPC") contracts. These are turn-key contracts that, together, obligate the EPC contractors to engineer, procure equipment and materials; construct the three switching substations, two series compensation stations; and, procure and construct the additional reactive equipment necessary to operate the line. The EPC contractors are obligated to satisfy all testing and commissioning requirements before acceptance. The turn-key purchase order amounts for these major contracts were used as a basis to revise the overall cost estimate.

The owner supplied equipment purchase order amounts were then incorporated into the cost estimate. Finally, the estimate included all other applicable internal costs, such as sales taxes.

1	Q.	PLEASE DESCRIBE THE ENGINEERING ANALYSIS THAT V	VAS
2		PERFORMED TO DESIGN LONE STAR'S CREZ PROJECT.	

Initially, Electric Reliability Council of Texas ("ERCOT") System Planning performed studies in conjunction with a task force designated the Regional Planning Group ("RPG-CREZ"). This CREZ Transmission Optimization Study ("CTOS") became the basis for the new CREZ transmission improvements. ERCOT working with Asea Brown Boveri ("ABB") and the transmission service providers completed a comprehensive reactive compensation plan for the CREZ Project in order to make certain changes if required to develop a secure and reliable system. In addition, Lone Star contracted with PTI Siemens for the development and completion of various electrical system studies as it related to the Lone Star transmission system. These studies include voltage profile, short circuit, transient recovery voltage and dynamic energization and switching studies.

A.

These study results formed the basis for the Lone Star equipment specifications, which established the minimum requirements for the voltage, current and fault duty under various load cases and fault conditions. The study was also used to establish the transmission line structure framing design and overhead ground wire size. Each component of Lone Star's CREZ Project was designed to perform under various weather conditions as recommended by accepted industry guidelines and codes such as those found in the American Society of Civil Engineers ("ASCE"), the Institute of Electrical and Electronic Engineers

1	("IEEE") and the National Electric Safety Code ("NESC"). Substation grounding
2	and rigid bus design studies were also undertaken in order to ensure the substation
3	components were adequately designed for safe, reliable operation.

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Q. HAS LONE STAR IDENTIFIED CRITICAL DATES FOR EACH MAJOR

TASK REQUIRED TO MEET THE PLANNED IN-SERVICE DATES FOR

LONE STAR'S FACILITIES?

Yes. Lone Star, in conjunction with its contractors, has created fully integrated transmission and substation project schedules that incorporate all major milestone activities and the detailed planned logical progression of activities in order to achieve those major milestone dates. The EPC and PC contracts require delivery by the contractors by a date certain. Lone Star is also working with Oncor Electric Delivery, LLC ("Oncor") and CenterPoint Energy to schedule milestone activities and specific construction dates to facilitate the interconnection of the existing and new transmission lines into the Scurry South, Sam Switch and Navarro substations. In addition, Lone Star is working with Electric Transmission Texas to schedule milestone activities and specific construction dates to interconnect its new Clear Crossing 345 kV lines into the West Shackelford substation.

20

21

Q. HAVE CONSTRUCTION ACTIVITIES BEGUN?

22 A. Yes. The three switching and two series compensation substations are currently
23 under construction. With respect to the Navarro, Sam Switch and West

1 Shackelford substations, site preparation activities, such as surveying, clearing, 2 grading, filling, foundations, control building and access road installation are 3 complete. Steel erection and equipment installation is well underway at these sites. At the Romney and Kopperl series compensation stations, site preparation 5 including surveying, clearing, grading, filling, foundations and access road 6 installation is well underway. Steel erection and equipment installation will 7 commence once site work is complete. 8 9 Transmission line construction began in August 2011 between Scurry South 10 (Oncor) and West Shackelford (Segments A-C). Transmission line construction 11 in Segment A (west end) is complete. Transmission line construction (right of 12 way clearing, pole spotting, framing and pole setting) is underway in Segments B. 13 C and J. Segment J is between Sam Switch and Navarro substations on the 14 eastern end of the project. Wire stringing work is underway in Segment B. 15 Please see Exhibit DM-1 Lone Star CREZ Route Review – Overall View.

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Q. DOES LONE STAR HAVE PROCESSES IN PLACE TO ESTABLISH, MONITOR AND CONTROL CAPITAL EXPENDITURES?

Yes. Capital expenditures are monitored and controlled by tracking actual and projected project costs on a monthly basis utilizing the SAP software program, by following a project budget and cost spreadsheet, by analyzing internal labor spend rates, by verifying contractor monthly progress curves versus projected cash flows and invoices submitted, and through general communication within the Lone Star

1		project team. All expenditures are tracked monthly upon receipt. Project reports
2		are compiled and monitored on a regular basis to ensure the project remains on
3		schedule and on budget.
4		
5	Q.	DOES THE PROCUREMENT PROCESS ALSO ASSIST IN
6		CONTROLLING CAPITAL COSTS?
7	A.	Yes. The procurement process plays an important role in controlling Lone Star's
8		capital costs through specific Scope of Work ("SOW") documents, which include
9		specifications and contracted terms and conditions ("T&Cs") made between Lone
10		Star, its equipment suppliers and engineering and construction contractors. The
11		SOW spells out the technical and performance requirements that the contractor
12		will address in the contract. The legally binding T&Cs ensure that Lone Star, its
13		suppliers and contractors understand the division of responsibility, contracted
14		price, invoicing terms, payment date requirements, contract scope change process
15		and scheduled due dates.
16		
17		In addition, the procurement process relied on by Lone Star is applicable to all
18		NextEra Energy companies.
19		
20		This process outlines various T&Cs for different types of procurements and the
21		requirements for source and price analysis on purchase orders and change orders
22		which again contribute to cost control. These guidelines combined with
23		managerial oversight provide cost control of procured activities across the

1		Nextera Energy enterprise, including capital procurements made by Lone Star,
2		and ensures that Lone Star's capital costs are well controlled by established and
3		proven effective procurement processes.
4		
5	Q.	PLEASE ELABORATE ON THE COMPETITIVE BID SELECTION
6		PROCESS THAT LONE STAR USED FOR ITS CREZ PROJECT.
7	A.	As previously mentioned, Lone Star sought competitive bids for four major
8		aspects of the Project: (1) the West Shackelford to Sam Switch and Sam Switch
9		to Navarro Transmission Lines; (2) the Scurry County South to West Shackelford
10		Transmission Line; (3) the West Shackelford, Romney, Kopperl, Sam Switch and
11		Navarro switching and series compensation stations; and (4) a turnkey supply of
12		fixed series capacitor banks and associated equipment at Romney and Kopperl
13		series compensation stations.
14		
15		Lone Star also sought competitive bids for major equipment and materials such as
16		the high voltage circuit breakers, station service voltage transformers ("SSVT"),
17		shunt reactors, disconnect switches, conductor, optical ground wire ("OPGW"),
18		steel and concrete poles.
19		
20		In each case, the Company sought and received multiple bids in response to its
21		requests to ensure competitive bidding. Lone Star evaluated the individual bids
22		and awarded the contracts based on the lowest evaluated cost, production

1	capabilities,	supplier	performance,	safety,	prior	experience,	delivery	schedule,
2	quality contr	ol and fir	ancial capabil	ities.				

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4 Q. HOW DOES LONE STAR HANDLE REQUESTS FOR CONTRACT

SCOPE CHANGES?

Lone Star negotiated two major, fixed-price date-certain PC contracts and two major, fixed-price date certain EPC contracts. For the PC and EPC contracts awarded, Lone Star's PC or EPC contract agreements provide a mechanism whereby any approved scope changes can be priced and included in the contract through the scope change process. Most of Lone Star's owner-supplied equipment and material contracts are fixed price and are subject to change only through Lone Star approval and are limited to the addition and deletion of quantities required. Lone Star's contracts include the original project scope-of-work document. This SOW document includes all items necessary for the proper execution and completion of the work. Work not described in the SOW does not require a scope change order if such work is consistent with and reasonably inferable from the SOW.

18

19

Q. DOES LONE STAR'S PROCESS FOR HANDLING CONTRACT SCOPE

20 CHANGES ASSIST IN CONTROLLING COSTS?

21 A. Yes. By negotiating contracts that only permit scope changes that are signed and 22 approved by Lone Star and limiting most scope changes to adjustments in

1		quantity, Lone Star is able	to eliminate charges for over	rruns that should have been
2		foreseen by the contractor		
3				
4	Q.	WHAT CONTRACTO	RS WERE SELECTED I	BY LONE STAR AS A
5		RESULT OF THE COM	IPETITIVE BID PROCESS	6?
6	A.	As I mentioned previously	y in my testimony, Lone Sta	r bid out four PC and EPC
7		contracts for the major as	pects of the CREZ Project. T	The winning contractors are
8		shown below.		
		CONTRACTOR NAME	CONTRACT TYPE	SCOPE SERVICES
		Blattner Energy, Inc.	Procurement and Construction	West Shackelford to Sam Switch and Sam Switch to Navarro Transmission Lines
		Irby Construction Company	Procurement and Construction	Scurry County South to West Shackelford Transmission Lines
		Dashiell Corporation	Engineering, Procurement, Construction	West Shackelford, Romney, Kopperl, Sam Switch and Navarro Substations
		General Electric Company	Engineering, Procurement, Construction	Turnkey supply of fixed series capacitor banks and associated equipment at Romney and Kopperl
9		Each of the selected contr	actors has experience to exec	cute projects of similar size
10		and scope as the Project.		
11 12 13 14		more than 25 proposed key p	y has worked on over 15,0 of which included transmiss personnel working on the Proprience with high voltage transmiss.	ion line construction. The ject have over 100 years of
15 16 17 18		power line of distribution sys	tion Company ("Irby") proconstruction, extra high votems, maintenance and emer ximately 963 miles of transm	voltage transmission and gency reconstruction. Irby
	DITC	Docket No. 40020		Mayers - Direct

1 2 3 4 5 6		 Dashiell Corporation ("Dashiell") is a national provider of technical services to the electric utility, power generation, industrial, renewable and energy industries. These services include planning and system studies, design and engineering, maintenance and testing, project management, construction and turnkey EPC contracts. Dashiell has completed 30 transmission substation projects since 2007.
7 8 9 10 11		 General Electric Company is a worldwide advanced technology, services and finance company and GE Energy provides integrated product and service solutions in all areas of the energy industry. GE Energy has installed 130 series compensation capacitor banks globally over the last 20 years, including installations in Texas.
12		
13	Q.	WHAT OBLIGATIONS DO THE PC AND EPC CONTRACTORS
14		ASSUME UNDER THESE CONTRACTS?
15	A.	In addition to these contracts calling for delivery at a fixed price on a date certain,
16		the PC and EPC contractors are obligated to satisfy testing and commissioning

In addition to these contracts calling for delivery at a fixed price on a date certain, the PC and EPC contractors are obligated to satisfy testing and commissioning requirements for each Project component. The requirements include: (1) the component has achieved "ready" for energization; (2) the transmission system test and the specified acceptance test have been successfully completed; (3) the component is ready for safe and normal operation; (4) the O&M manuals have been delivered; and (5) spare parts and special tools, if required have been delivered. For both the transmission lines and the substations, each contractor must achieve provisional acceptance prior to the applicable guaranteed provisional acceptance date. If the contractor fails to achieve provisional acceptance before the applicable guaranteed provisional acceptance date, the contractor must pay liquidated damages.

1	Q.	DO THE PROCEDURES LONE STAR HAS FOLLOWED AND THE
2		CONTRACTS THAT LONE STAR HAS ENTERED INTO PROVIDE A
3		REASONABLE AND RELIABLE BASIS FOR THE CAPITAL COST
4		ESTIMATE USED IN THIS FILING?
5	A.	Yes.
6		
7		IV. DESIGN SPECIFICATIONS FOR LONE STAR'S PROJECT
8	Q.	HOW WERE DESIGN SPECIFICATIONS DEVELOPED FOR THE CREZ
9		PROJECT?
10	A.	In order to engineer and construct Lone Star's transmission system, it was
11		necessary to develop design specifications for all of the transmission facilities that
12		comprise the project. The major transmission components required for the project
13		are three switching substations, two series compensation stations, transmission
14		lines and series capacitors.
15		
16		In designing these facilities, research and studies were conducted to determine the
17		environment in which equipment must remain operational. This would include
18		weather conditions, as well as electrical conditions. Once these parameters were
19		known, then structural and electrical requirements were incorporated into
20		specifications.

Q. DID LONE STAR MAKE USE OF ANY ADVANCED TECHNOLOGY IN

THE DESIGN OF THE CREZ TRANSMISSION FACILITIES?

Yes. The 345 kV, 5000 A, 63 kA circuit breakers and 100 kVA SSVTs are new designs from ABB. Prior to the Lone Star project there were no or very limited suppliers of 5000 A, 63 kA circuit breakers at 345 kV. The SSVTs were also sized to accommodate the station power requirements in the Lone Star substations. By using these advanced technologies, Lone Star was able to avoid paying higher costs for more equipment at a lower rating or purchasing oversized equipment at a higher rating. New SSVTs were designed and manufactured in order to optimize Lone Star's specific requirements at a lower cost. Additional advanced technology used in Lone Star's CREZ project includes the 345 kV braced post polymer insulators that were unique for the application. Lone Star individually tested the insulator manufacturers' products to ensure they met the required static and dynamic loading requirements. Further, the 140' high capacity single piece concrete poles were the first of their kind. These poles were designed and fabricated in a newly re-tooled plant in Texas. The plant modifications were required to accomplish this advancement of the spun concrete pole technology.

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A. Substation and Transmission Line Design Specifications

20 Q. WHAT SPECIFICATIONS DID LONE STAR USE TO DESIGN ITS

21 SUBSTATIONS AND SERIES COMPENSATION STATIONS?

22 A. The component and EPC specifications utilized preliminary engineering work,

23 internal and external technical expertise and extensive external vendor experience.

Lone Star prepared major 345 kV substation component specifications for the 345/500 kV circuit breakers, switches, SSVTs, shunt reactors and series capacitors. In addition, detailed SOWs were developed for the EPC contract for the three switching substations, two series compensation stations and the transmission lines. The component specifications and SOW referenced and incorporated many applicable IEEE, American National Standards Institute ("ANSI") and other industry standards and guidelines. Lone Star's substation EPC contractor, Dashiell, created a set of standard designs such as bus support structures and pull-off tower designs that will be utilized in all of Lone Star's substations. This standard design reduces the engineering and material procurement time, provides consistency and increases labor productivity.

A.

Q. WHAT TRANSMISSION LINE SPECIFICATIONS DID LONE STAR USE

FOR THIS PROJECT?

Lone Star prepared transmission component specifications for the concrete and steel monopole structures, braced post polymer insulators and OPGW. In addition, a detailed SOW was developed for the PC contract for the transmission lines. The component specifications and SOW referenced and incorporated many applicable IEEE, ANSI and other industry standards and guidelines. Lone Star's transmission line engineering consultant, Peak Power, created a set of standard structure framing details that will incorporate the major equipment procured and be utilized in all of Lone Star's new transmission lines. The use of a consistent

1		set of standards across the Project reduces future engineering time, helps expedite
2		material procurement and increases construction labor productivity.
3		
4	Q.	WAS IT NECESSARY TO PREPARE THESE DESIGN
5		SPECIFICATIONS?
6	A.	Yes. The specifications were prepared to procure components that are major cost
7		items with long lead times, have a diversity of vendors, and are considered critical
8		to the project schedule and delivery system performance. The specifications were
9		prepared in order to ensure the components procured met the Lone Star technical
10		requirements as well as local, state and federal codes, regulations and national
11		standards. These specifications describe site specific criteria such as wind load,
12		geotechnical and seismic requirements, physical characteristics, equipment rating,
13		materials, testing, fabrication, quality and delivery performance and any unique
14		site conditions that must be incorporated in the design of the product. The
15		component and EPC specifications leveraged preliminary engineering work as
16		well as internal and external technical expertise.
17		
18	Q.	PLEASE DESCRIBE AND COMPARE THE PHYSICAL COMPONENTS
19		OF THE SUBSTATIONS AND SERIES COMPENSATION STATIONS.
20	A.	Sam Switch substation is located on 60 acres of property purchased by Lone Star.
21		The fenced-in area for the substation infrastructure is approximately 790 feet by
22		475 feet. Initially, five 345 kV bays will be constructed that will include twenty

1	345 kV disconnect switches, eight 345 kV breakers, two 550 kV breakers
2	(operated at 345 kV) and four SSVTs.
3	
4	Navarro substation is located on 225 acres of property purchased by Lone Star.
5	The fenced-in area for the substation infrastructure is approximately 1,514 feet by
6	455 feet. Initially, six 345 kV bays will be constructed that will include forty-one
7	345 kV disconnect switches, thirteen 345 kV breakers, two 550 kV breakers,
8	(operated at 345 kV) and four SSVTs.
9	
10	West Shackelford series compensation station is located on 100 acres of property
11	purchased by Lone Star. The fenced-in area for the substation infrastructure is
12	approximately 990 feet by 780 feet. Initially, five 345 kV bays will be
13	constructed that will include thirty-six 345 kV disconnect switches, nine 345 kV
14	breakers, four 550 kV breakers (operated at 345 kV), two 345 kV 100 MVAR
15	shunt reactors and four SSVTs.
16	
17	Lone Star procured 550 kV breakers that will be operated at 345 kV at all line
18	terminals protecting the series compensated lines. These breakers were required
19	due to switching over voltage conditions that are not presently supported by
20	existing 345 kV circuit breaker technology.
21	
22	Romney series compensation station is located on 25.7 acres of property
23	purchased by Lone Star. The fenced-in area for the substation infrastructure is

approximately 640 feet by 925 feet. Initial construction will include ten 345 kV disconnect switches, two fixed series capacitor banks including one 345 kV bypass breaker for each bank, four 345 kV 50 MVAR shunt reactors, four 345 kV breakers and two SSVTs. Kopperl substation will be located on 20.5 acres of property purchased by Lone Star. The fenced-in area for the substation infrastructure is approximately 600 feet by 520 feet. Initial construction will include six 345 kV disconnect switches, two fixed series capacitor banks including one 345 kV bypass breaker for each bank and two SSVTs. In addition, transmission pull-off structures, foundations, bus work, one control house, surge arresters, voltage transformers, protection and control equipment and lightning shielding will be installed at each substation.

A.

Q. WHAT CAPITAL SPARES WERE INCLUDED IN THE CAPITAL

INVESTMENT INCLUDED ABOVE?

Included in these capital estimates are long lead capital spare equipment and miscellaneous spare parts for the Lone Star substation facilities. Lone Star procured one 345 kV SSVT, two 345 kV circuit breakers, one 500 kV circuit breaker and three 345 kV disconnect switches. In addition various spare parts were ordered for the 345 kV shunt reactors and the series compensation banks. These spares are long lead items that would not be readily available should Lone Star have equipment failures. These spare parts are necessary for Lone Star to be able to quickly respond to equipment failures and promptly restore the

1		transmission facilities to operation. Mr. Turner's direct testimony further
2		discusses the need for capital spares.
3		
4	Q.	PLEASE DESCRIBE THE PHYSICAL COMPONENTS OF THE
5		TRANSMISSION LINES.
6	A.	Lone Star's transmission line structures are primarily spun concrete monopoles
7		with braced line post polymer insulators supporting the bundled (2X) 1590
8		Aluminum Conductor Steel Supported ("ACSS") ("Falcon") conductor in a side-
9		by-side vertical phase configuration. There are two shield wires per pole, one of
10		which contains optical fibers for relay protection and communication.
11		
12		Wherever possible on corner or angle structures, multiple guy wires and anchors
13		are utilized in order to reduce the cost of the structures. Fiber optic splice boxes
14		will be mounted on certain structures approximately every 3-4 miles to allow for
15		the optic fibers to be spliced.
16		
17	Q.	WHAT SAFETY-RELATED REQUIREMENTS DID LONE STAR
18		INCLUDE IN THE DESIGN OF THE PROJECT?
19	A.	Safety is a very important consideration in the design, construction and operation
20		of substations for electric utilities. Safety was a major focus in the preparation of
21		all specifications and designs especially those involving on-site construction with
22		necessary Occupational Safety and Health Administration and NESC
23		compliance.
	DI 10 1	Docket No. 40020 Mayers - Direct
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All or some of Lone Star's substation and series compensation facilities have incorporated security requirements for its cyber assets, perimeter, switchyards and control house security protection in the design of these facilities. Lone Star's transmission line shield wires are sized to ensure that the current and future available fault current can be safely transmitted to ground under short circuit conditions. This ensures worker safety.

In all instances, Lone Star assembled and utilized very experienced design, procurement and construction personnel that assembled the design specifications and SOW. This experience has allowed Lone Star to ensure that safety-related concerns are met without adding unnecessary cost.

A.

Q. WHAT RELIABILITY CONSIDERATIONS DID LONE STAR EVALUATE WITH RESPECT TO ITS CREZ PROJECT?

Lone Star personnel participated in the ERCOT/CREZ CTOS system planning studies and committee meetings. Based on the planning work and studies, Lone Star evaluated reliability considerations such as station post insulator and component bushing leakage distance for contamination performance, surge arrester maximum continuous operating voltage rating, ground grid and bus design available short circuit withstand ratings and substation lightning shielding performance. In addition, Lone Star evaluated the substation electrical and physical configurations and redundancy of transmission protection systems and

substation low-voltage station service systems. Lone Star further complied with all ERCOT voltage and system reactive requirements.

Lone Star contracted with PTI Siemens for the development and completion of various electrical system studies related to the Lone Star transmission system. These studies include voltage profile, short circuit, transient recovery voltage and dynamic energization and switching studies. The results of both the ERCOT and Lone Star studies were incorporated into the major component specifications and PC and EPC SOW.

With respect to the transmission line facilities, Lone Star designed the line according to ASCE guidelines and NESC requirements. Based upon the results of the engineering studies completed, Lone Star designed the transmission line facilities with sufficient overhead, phase-to-phase and phase-to-ground clearance in order to ensure safe and reliable operation. In addition, due to the higher voltage and 5000 A current requirements of these transmission lines and their proximity to major oil and gas pipelines adjacent to the ROW, Lone Star will, as necessary, incorporate various mitigation techniques to ensure both worker safety and pipeline integrity. Finally, Lone Star is incorporating measures to ensure the line can operate reliably while protecting local and migrating birds.

V. FACILITY CAPITAL INVESTMENT

Q. HOW DID LONE STAR PREPARE THE CAPITAL INVESTMENT

3 AMOUNT THAT YOU SPONSOR IN THIS RATE FILING?

4 A. Lone Star relied on actual and projected capital costs utilizing a combination of
5 factors, including contract prices for services, materials and equipment.
6 Construction activities and material deliveries were compared with the project
7 schedule and costs were spread by month across the rate period.

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With respect to its interim rate request, the substation capital investment is limited to the capital investment associated with the Sam Switch and Navarro substations. The total amount of substation capital investment included in interim rates is \$45,935,140.

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For purposes of establishing rates reflective of total project capital investment,

Lone Star has included capital investment in the amounts shown below:

Type of Facility	Actual Capital Investment as of 9/30/2011	Incremental Projected Capital Investment	Total Capital Investment
Navarro Switchyard	\$16,969,993	\$11,267,860	\$28,237,853
Sam Switch Switchyard	\$5,735,911	\$11,961,376	\$17,697,287
W. Shackelford Switchyard	\$3,177,248	\$27,725,296	\$30,902,544
Romney Switchyard	\$3,777,630	\$25,832,814	\$29,610,444
Kopperl Switchyard	\$3,185,173	\$19,753,316	\$22,938,489
Capital Spares ¹	\$0	\$1,027,605	\$1,027,605
Transmission Line	\$59,413,758	\$390,216,433	\$449,630,191
Total	\$92,259,714	\$487,784,699	\$580,044,413

¹ This amount represents a portion of Lone Star's cost of capital spares. The remainder is sponsored by Mr. Turner.

PUC Docket No. 40020

Mayers - Direct Lone Star Transmission, LLC 2012 Rate Case

1	Q.	WHAT ARE THE MAJOR COST COMPONENTS OF THE SUBSTATION
2		COST ESTIMATE?
3	A.	The major capital cost components of the substation estimate include: the
4		substation EPC contract labor and materials, owner-supplied 345/550 kV
5		breakers, switches, SSVTs, shunt reactors, series capacitor banks, home office
6		support, construction site labor, capital spares and expenses. In addition, Mr.
7		Turner sponsors the land acquisition costs.
8		
9	Q.	WHAT ARE THE MAJOR COST COMPONENTS OF THE
10		TRANSMISSION LINE COST ESTIMATE?
11	A.	The major cost components include the 345 kV transmission line engineering,
12		material procurement, home office support and construction labor contracts. In
13		addition, ROW acquisition costs represent a major cost component. This amount
14		is sponsored by Mr. Turner.
15		
16	Q.	WERE THE MAJOR COST COMPONENTS COMPETITIVELY BID?
7	A.	Yes, as I mentioned previously, Lone Star engaged in a competitive bidding
8		process for all the owner-supplied equipment as well as all contracts for EPC and
9		PC activities. In addition, Lone Star competitively bid the transmission
20		engineering and procurement of equipment and materials to ensure the lowest
21		overall cost.

1	Ų.	WHAT TYPES OF CONSTRUCTION COSTS ARE INCLUDED IN THE
2		CAPITAL INVESTMENT OUTLINED ABOVE?
3	A.	The capital investment amounts in the table include engineering and construction
4		labor, the procurement of equipment and material, sales tax and A&G costs. In
5		addition, the construction cost estimate for the transmission lines includes site
6		surveying and geotech costs.
7		
8	Q.	WHAT TYPES OF EQUIPMENT AND MATERIAL COSTS ARE
9		INCLUDED IN THE CAPITAL INVESTMENT OUTLINED ABOVE?
10	A.	The capital investment contained in the table above includes both owner-supplied
11		and contractor-provided materials and equipment costs. In general, the owner-
12		provided material and equipment at the five substation sites includes the circuit
13		breakers, disconnect switches, shunt reactors, series capacitors and the SSVTs.
14		The contractor-provided material and equipment at each of the sites includes
15		transmission pull-off structures, foundations, bus supports and electrical bus
16		work, a control house, surge arresters, voltage transformers, protection and
17		control equipment, batteries, wave traps, tuning units and lightning shielding.
18		Connectors, grounding, conduit and control cable are also provided by the EPC
19		contractor.
20		
21		Transmission line equipment and material in the cost estimate include: conductor,
22		overhead ground wire, OPGW, insulators, conductor hardware, guying

1		equipment, anchors, grounding equipment, vibration dampers, bird flight
2		diverters, fiber optic splice cabinets, compression fittings and hardware.
3		
4	Q.	DOES THE CAPITAL INVESTMENT INCLUDE CONTINGENCY
5		COSTS?
6	A.	Yes.
7		
8	Q.	WHAT ARE CONTINGENCY COSTS?
9	A.	Contingency costs include escalation on materials and labor as well as costs that
10		are not susceptible to being predicted with precision.
11		
12	Q.	CAN YOU PROVIDE SOME EXAMPLES OF THE TYPES OF COSTS
13		THAT CANNOT BE PREDICTED WITH PRECISION AND MUST
14		NECESSARILY BE CAPTURED IN CONTINGENCY COSTS?
15	A.	Yes. Because Lone Star was not able to obtain access to all the landowner
16		properties to assess the projected location of the structures, assumptions were
17		made on projected route location and length, property access, subsurface soil
18		conditions and crossings requirements. These assumptions were based upon
19		aerial mapping, transmission line computer aided design models and surface and
20		subsurface geotechnical information that was available at the time. Until Lone
21		Star completes the required easement negotiations and makes the necessary minor
22		route modifications requested by the landowners and are granted unobstructed
23		access rights to all the properties, a reasonable amount of engineering and

1		construction funds must also be captured in contingency costs. Lone Star
2		estimated a percentage of the total cost estimate in order to ensure that future
3		capital would be available once the risks were understood and mitigation
4		measures implemented. Engineering and construction contingency is included in
5		the estimate so the project can proceed with minimal interruption for scope
6		changes or unknown risks.
7		
8	Q.	WILL LONE STAR'S PROPOSED TRUE-UP FILING ENSURE THAT
9		ONLY ACTUAL CAPITAL INVESTMENT AND NOT CONTINGENCY
10		COSTS ARE RECOVERED IN RATES?
11	A.	Yes. As discussed in more detail in the testimony of Lone Star witness Michael
12		Grable and Mr. Turner, the Company proposes to true-up its capital costs to
13		assure that Lone Star only recovers its actual capital investment.
14		
15	VI.	AFFILIATE CHARGES FOR E&C SERVICES PROVIDED TO LONE STAR
16	Q.	WHAT SERVICES DOES THE ENGINEERING AND CONSTRUCTION
17		BUSINESS UNIT PROVIDE TO LONE STAR?
18	A.	Pursuant to the Code of Conduct waiver granted by the Commission in Docket
19		No. 36890, Lone Star may use shared services. NextEra Energy provides the
20		E&C services, which include engineering oversight and design philosophy,
21		project management, project scheduling and project controls. These services are
22		provided by a combination of NEER and FPL employees.

1	Q.	WHAT IS THE LEVEL OF EXPERIENCE THAT NEXTERA ENERGY'S
2		E&C DEPARTMENT PROVIDES?
3	A.	NextEra Energy's E&C personnel are among the best in the business at
4		completing projects on schedule and within budget. E&C's personnel possess
5		significant expertise in the design and construction of transmission facilities. This
6		small, specialized group has extensive knowledge built over years of how to
7		manage projects and control costs. In fact, the E&C business unit personnel
8		assigned to the Project have over 150 years of collective experience in the
9		industry. The Commission recognized this expertise when it selected Lone Star
10		as a new entrant Transmission Service Provider.
11		
12	Q.	WHAT ARE THE PROJECTED COSTS THAT HAVE BEEN INCLUDED
13		IN THE RATE FILING FOR THE PROVISION OF E&C SERVICES TO
14		LONE STAR?
15	A.	As shown on Cost of Service Schedules V-K-1A-interim and V-K-1B-interim and
16		as explained in the direct testimony of Ms. Dietrich, Lone Star's interim rate
17		request includes capitalized costs for E&C services provided to Lone Star in the
18		amount of \$6,716,870. This amount is reflective of the services that NextEra
19		Energy's E&C organization will continue to provide to Lone Star during the time

the interim rates are in effect.

20

1	Q.	ARE THE SERVICES NEXTERA ENERGY'S E&C DEPARTMENT HAS
2		PROVIDED AND WILL CONTINUE TO PROVIDE DURING THE
3		INTERIM RATE PERIOD REASONABLE AND NECESSARY?
4	A.	Yes. Utilizing NextEra Energy's E&C Department affords Lone Star access to
5		seasoned professionals with extensive experience in building transmission
6		facilities. This, in turn, has allowed Lone Star to take advantage of long-standing
7		vendor relationships and maximize its negotiation powers. Further, by utilizing
8		the E&C department's experience, Lone Star is well positioned to complete its
9		CREZ Project within the time frame established by the Commission. Moreover,
10		Lone Star's proposal to true-up its capital investment to reflect actual costs
11		ensures that customers will pay only for the actual cost incurred. Finally, had
12		Lone Star not been able to access the experienced professionals in the E&C
13		department, it would have needed to hire additional staff or obtain the similar
14		services from a third party at an additional cost.
15		
16		VII. <u>CONCLUSION</u>
17	Q.	ARE THE COSTS LONE STAR SEEKS TO RECOVER IN THIS FILING
18		REASONABLE, CUSTOMARY AND SIMILAR TO OTHER PROJECTS
19		OF SIMILAR SCOPE GIVEN THE SERVICE REQUIREMENTS OF THE
20		PROPOSED PROJECT?
21	A.	Yes.

l 0.	PLEASE	SUMMARIZE	YOUR	TESTIMONY
-------------	--------	-----------	-------------	-----------

As demonstrated throughout my testimony, the actual projected capital costs 2 3 included in Lone Star's filing are reasonable and necessary. The Commission can rely on Lone Star's projections because Lone Star has prudently performed its 5 engineering work, engaged in sound internal cost estimate preparation and utilized a competitive bidding process and controls to manage costs. Lone Star 6 7 has also followed reasonable construction management processes to ensure 8 prudent project development. In sum, Lone Star has ensured that the transmission 9 facilities designed and constructed will satisfy the Commission and ERCOT 10 requirements and will meet the requested in-service dates and ensure that the costs 11 paid for the scope of work are reasonable and necessary.

12

13

- Q. IS CAPITAL INVESTMENT REQUESTED IN THIS FILING
- 14 REASONABLE AND NECESSARY TO THE PROVISION OF UTILITY
- 15 **SERVICE?**
- 16 A. Yes

17

- 18 Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?
- 19 A. Yes, it does.

STATE OF FLORIDA § COUNTY OF Elm Beach §

AFFIDAVIT OF DANIEL MAYERS

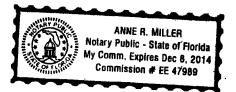
BEFORE ME, the undersigned authority, on this day personally appeared Daniel Mayers, who, having been placed under oath by me, did depose as follows:

- 1. "My name is Daniel Mayers. I am of sound mind and capable of making this affidavit. The facts stated herein are true and correct based upon my personal knowledge. My current position is Director of Engineering and Construction for NEER.
- 2. I have prepared the foregoing direct testimony and the attached exhibit offered by me is true and correct to the best of my knowledge."

Further affiant sayeth not.

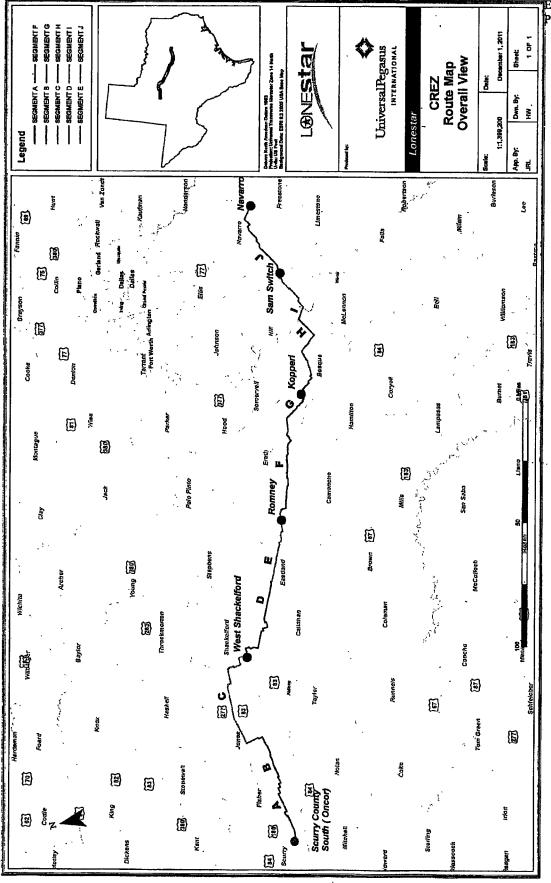
Daniel Mayers

SUBSCRIBED AND SWORN TO BEFORE ME by the said Daniel Mayers this day of December , 2011.



Notary Public, State of Florida

Docket No. 40020 Exhibit DM-1 Page 1 of 1



PUC DOCKET NO. 40020

§	BEFORE THE
§	
§	PUBLIC UTILITY COMMISSION
§	
§	OF TEXAS
	3

DIRECT TESTIMONY

OF

CHERYL L. DIETRICH

ON BEHALF OF

LONE STAR TRANSMISSION, LLC

January 9, 2012

INDEX TO THE DIRECT TESTIMONY OF

CHERYL L. DIETRICH, WITNESS FOR

LONE STAR TRANSMISSION, LLC

EXE	CUTIV	E SUMMARY OF CHERYL L. DIETRICH	ES-1
I.	POSI	TION AND QUALIFICATIONS	1
II.	PURPOSE OF DIRECT TESTIMONY3		
III.	LON	E STAR'S SUPPORT SERVICE NEEDS	7
	A.	Overview	
	B.	Support Services Necessary for Lone Star's Operations	
	C.	Specific Services Supported	17
		1. NEET	18
		a. Business Management	18
		b. Business Services	
		2. NEER and FPL	21
		a. Corporate Governance	21
		b. Information Management	
		c. Law Department	
		3. FPL	25
		a. Corporate Communications	25
		b. Corporate Real Estate	
		c. Internal Audit	
		d. Strategy, Policy and Process Improvement	29
IV.	BILL	ING AND COST ALLOCATION METHODOLOGIES	30
	A.	Direct Billed	31
	B.	Direct Assigned	
	C.	Allocated	
	D.	Summary of Company Specific Billing	37
V.	AFFI	LIATE EXPENSE COST CONTROLS	41
	A.	Corporate Support Services Agreements	44
	В.	The Budget Process	45
	C.	The Monthly Invoicing and Review Process	
	D.	Budget Oversight	
	E.	Internal and External Audits and Reviews	47
VI.	AFFILIATE EXPENSE REQUEST50		
VII.	CONCLUSION58		

LIST OF EXHIBITS

EXHIBIT CLD-1	List of Services/functions and witnesses for the various Corporate Support Services
EXHIBIT CLD-2	NextEra Energy Resources, LLC Transactions with Subsidiaries and Affiliates Policy and Procedure
EXHIBIT CLD-3A	Calculation of NextEra Energy Transmission, LLC labor loader rate
EXHIBIT CLD-3B	Calculation of NextEra Energy Resources, LLC labor loader rate
EXHIBIT CLD-3C	Calculation of Florida Power & Light labor loader rate
EXHIBIT CLD-3D	Calculation of Lone Star Transmission, LLC labor loader rate
EXHIBIT CLD-4A	NextEra Energy Transmission, LLC Corporate Support Services Agreement
EXHIBIT CLD-4B	NextEra Energy Resources, LLC Corporate Support Services Agreement
EXHIBIT CLD-4C	Florida Power & Light Corporate Support Services Agreement
EXHIBIT CLD-5	Florida Power & Light Cost Allocation Manual
EXHIBIT CLD-6	NextEra Energy Resources, LLC Affiliate
EXHIBIT CLD-7	Management Fee Policy & Procedure Florida Power & Light Investment Recovery Procedure

LIST OF SPONSORED/CO-SPONSORED SCHEDULES (INTERIM AND FINAL)

SCHEDULE V-K-1	Affiliate Expenses by FERC Account
SCHEDULE V-K-3	Organization Chart
SCHEDULE V-K-4	Description of Services
SCHEDULE V-K-5	Capital Projects
SCHEDULE V-K-7	Statutory Requirements
SCHEDULE V-K-8	Services Provided to Affiliates
SCHEDULE V-K-9	Allocation of Affiliate Costs
SCHEDULE V-K-10	Controls
SCHEDULE V-K-11	Affiliate Billing Methods
SCHEDULE V-K-12	Amounts Billed to Each Affiliate

EXECUTIVE SUMMARY OF CHERYL L. DIETRICH

As a transmission utility operating in Texas, Lone Star Transmission, LLC ("Lone Star" or the "Company") needs basic corporate support services to function on a daily basis. To this end, Lone Star must either hire its own employees or contractors to provide the needed support services or share employees that are already providing the same services to other affiliates. As a member of the NextEra Energy, Inc. ("NextEra Energy") family of companies, Lone Star has access to highly qualified and experienced corporate support service personnel at NextEra Energy Transmission, LLC ("NEET"), NextEra Energy Resources, LLC ("NEER") and Florida Power & Light Company ("FPL"). As detailed below, these personnel provide Lone Star with vital services, benefits and value. My testimony:

- discusses the benefits of Lone Star's reliance on NextEra Energy affiliates for corporate support services, the need for the specific corporate support services and the reasonableness of specific affiliate corporate support service expenses;
- describes the Company's billing and cost allocation methodologies for affiliate corporate support services, which are consistent with the Corporate Support Services Agreements between Lone Star and its affiliates;
- details the controls, policies, and procedures which ensure that Lone Star's affiliate costs are monitored and billed properly and are reasonable and necessary;
- provides a summary of Lone Star's affiliate expense request for both interim and final rates; and
- confirms that all affiliate costs are reasonable and necessary, Lone Star is not charged a higher price than those charged to other affiliates or non-affiliates, such costs are billed at cost and services are not duplicative of any services provided by Lone Star or any other affiliates.

This testimony demonstrates that the affiliate costs for which Lone Star seeks recovery meet the Commission's affiliate cost recovery standard and should be recovered in full through rates.

1		DIRECT TESTIMONY OF CHERYL L. DIETRICH
2		I. <u>POSITION AND QUALIFICATIONS</u>
3	Q.	PLEASE STATE YOUR NAME, BUSINESS ADDRESS AND POSITION.
4	A.	My name is Cheryl Dietrich. My business address is 700 Universe Blvd., June
5		Beach, Florida 33408. I am employed by NextEra Energy Transmission, LLC
6		formerly known as U.S. Transmission Holdings. LLC, and hold the position of
7		Director of Business Management.
8		
9	Q.	ON WHOSE BEHALF ARE YOU TESTIFYING IN THIS PROCEEDING?
10	A.	I am testifying on behalf of Lone Star.
11		
12	Q.	WHAT IS YOUR EDUCATIONAL BACKGROUND?
13	A.	I graduated from Florida Atlantic University in 1995 with a Bachelor of Science
14		Degree in Business Administration majoring in Accounting. That same year, l
15		obtained my Certified Public Accountant License in the state of Maryland while
16		working for a public accounting firm in Newark, Delaware. In 2000, I became
17		licensed in the state of Florida.
18		
19	Q.	PLEASE DESCRIBE YOUR PREVIOUS EXPERIENCE AT NEXTERA
20		ENERGY.
21	A.	I have been employed by NextEra Energy since May of 2000, when I was hired as
22		a Project Controller for NEER. Since then, I have held numerous positions with
23		progressing responsibility at both NEER and FPL. Most recently, prior to taking

1		my current position, I was the Business Services Regulatory and Accounting
2		Manager for FPL's Nuclear Division.
3		
4	Q.	AS DIRECTOR OF BUSINESS MANAGEMENT AT NEET, PLEASE
5		DESCRIBE YOUR AREAS OF RESPONSIBILITY.
6	A.	As the Business Management Director for NEET, my responsibilities include, but
7		are not limited to, the following for NEET and its subsidiaries including Lone
8		Star:
9		 Affiliate transaction accounting, billing, reviews and controls;
10		 Planning, forecasting and variance reporting;
11		 Quarterly due diligence compliance and reporting;
12		Corporate oversight and liaison support; and
13		Regulatory reporting and support
14		
15	Q.	WHAT DUTIES DO YOU PERFORM WITH RESPECT TO LONE
16		STAR'S AFFILIATE TRANSACTIONS?
17	A.	My department is responsible for establishing appropriate account numbers
18		(known as work breakdown structure ("WBS") Elements) for Lone Star; assisting
19		Lone Star management in the monthly review of affiliate charges to ensure the
20		propriety of costs being billed; working with Lone Star management to review
21		and document variances or update expense projections; preparing regulatory
22		reports, including the Public Utility Commission of Texas ("Commission")
23		Annual Report of Affiliate Activities; reviewing and documenting policies and

procedures for receiving affiliate services and related charges; and monitoring the overall financial activity of Lone Star. On an annual basis, my department works with Lone Star to prepare the five year budget plan, which involves a review and negotiation of affiliate direct billed, direct assigned and allocated charges from NEET, NEER and FPL to ensure the plan reasonably represents the cost of Where corporate support services and related necessary future services. infrastructure costs are allocated to Lone Star, my department reviews the costs being allocated to ensure the costs being billed support activities that benefit Lone My department prepares a report that presents the monthly financial Star. performance results for Lone Star. This report is reviewed by NextEra Energy's senior leadership on a monthly basis and ensures compliance with the Sarbanes-Oxley Act of 2002. My affiliate transaction oversight responsibilities require that I have a thorough and detailed understanding of Lone Star's affiliate costs, which include affiliate charges, the services they represent and Lone Star's need for those services, and the mechanisms for billing those costs to Lone Star.

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II. PURPOSE OF DIRECT TESTIMONY

- 20 Q. WHAT IS THE PURPOSE OF YOUR DIRECT TESTIMONY IN THIS
- 21 **PROCEEDING?**
- 22 A. The purpose of my direct testimony is to support the affiliate expenses included in
- 23 Lone Star's rate filing package. Because support services represent the majority

of the affiliate expenses being requested by the Company in this case, I discuss the benefits of Lone Star's reliance on NextEra Energy affiliates for corporate support services, the need for the specific corporate support services and the reasonableness of specific affiliate corporate support service expenses. I also describe the billing and cost allocation methodologies for affiliate corporate support services that are consistent with the Corporate Support Services Agreements between Lone Star and its affiliates, as well as the controls, policies and procedures employed by Lone Star and NEET that help ensure that Lone Star's affiliate costs are monitored and billed properly and are reasonable and necessary. Lastly, I provide a summary of Lone Star's affiliate expense request in the rate filing package.

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Q. HAVE YOU PREPARED ANY EXHIBITS IN CONNECTION WITH

- 14 YOUR TESTIMONY?
- 15 A. Yes. I have prepared and sponsor the exhibits listed in the table of contents.

16

- 17 Q. WERE YOUR TESTIMONY AND THE EXHIBITS ATTACHED
- 18 THERETO PREPARED BY YOU OR UNDER YOUR DIRECT
- 19 **SUPERVISION?**
- 20 A. Yes.

1	Q.	DO YOU SPONSOR OR CO-SPONSOR ANY SCHEDULES IN LONE
2		STAR'S RATE FILING PACKAGE?
3	A.	Yes. Consistent with the context of my testimony, I sponsor or co-sponsor the
4		schedules listed in the table of contents, including Schedules II-E-4.5, V-K-1, V-
5		K-3, V-K-4, V-K-5, V-K-7, V-K-8, V-K-9, V-K-10, V-K-11 and V-K-12 of the
6		rate filing package.
7		
8	Q.	HOW DOES YOUR TESTIMONY RELATE TO THE DIRECT
9		TESTIMONY OF OTHER COMPANY WITNESSES IN THIS CASE
10		CONCERNING AFFILIATE COSTS?
11	A.	I address the organizational structure, costs associated with corporate support
12		services provided to Lone Star by its affiliate companies, related billing processes,
13		cost allocation methodologies, controls and the necessity and reasonableness of
14		certain support services. The following witnesses also provide testimony to
15		support the necessity and reasonableness of the Company's affiliate costs:
16 17 18 19 20		 Tom J. Flaherty, Senior Vice President in the Energy, Chemicals and Utilities practice of Booz & Company, is the Company's outside expert witness on affiliate expense issues. He provides an independent analysis of Lone Star's affiliate costs.
21 22 23		 Michael G. Grable, President of Lone Star, provides an overview of the Company's filing and Lone Star's need to rely on affiliate support.
24 25 26 27 28 29		 David K. Turner, Project Director and Director of Operations for Lone Star, supports affiliate costs associated with transmission capital investment and operations and maintenance ("O&M") expenses, which include integrated supply chain/procurement ("ISC"). In addition, Mr. Turner's testimony supports Development and Regulatory Affairs costs, as they relate to support of the CCN filing.

1 2 3	 Daniel Mayers, Director - Construction for NEER, supports specific environmental, engineering and construction costs provided by NEER and FPL.
4 5 6 7	 Aldo E. Portales, Assistant Treasurer for NEER, supports corporate treasury and financing functions provided to Lone Star by NEER and FPL.
8	
9	 Brian R. Murphy, Senior Tax Director for FPL, supports corporate tax
10 11	services provided to Lone Star by FPL.
11	
12 13	 Richard B. Cribbs, Controller for NEER, supports finance and accounting expenses provided to Lone Star by NEER.
14	
15	 Julie S. Rice, Director Compensation and Planning for NEER, presents
16	human resources ("HR") affiliate costs provided to the Company by
17	NEER and FPL.
18	
19	• Lastly, H. Michael Warren, an outside consultant, has reviewed the
20	reasonableness of rate case expenses and addresses certain affiliate
21	based costs associated with this rate case.
22	
23	I support the following specific affiliate expense categories not included in other
24	witness testimony:
25	 NEET: Business Management and Business Services;
26 27	 NEER and FPL: Corporate Governance, Information Management ("IM") and Law Department; and
28	FPL: Corporate Communications Corporate Real Estate Internal
29	 FPL: Corporate Communications, Corporate Real Estate, Internal Audit, and Strategy, Policy and Process Improvement,
	Addit, and Strategy, I oney and I rocess improvement,
30	as well as allocated corporate support services and related infrastructure costs for
31	both NEER and FPL.
32	
33	Exhibit CLD-1 illustrates in more detail the witnesses who discuss specific
34	functions and support their related costs.

Q. HOW IS YOUR TESTIMONY ORGANIZED?

A. My testimony: (1) provides an overview of Lone Star's support service needs and the benefits derived by Lone Star's reliance on affiliates for corporate support services; (2) describes Lone Star's affiliate billing and cost allocation methodologies; (3) details the controls that Lone Star has in place to ensure that affiliate costs are reasonable and necessary; and (4) summarizes the total affiliate expense request for the Company.

Affiliate charges are reflected in three separate rate filing schedules. Expenses are shown on Schedule V-K-1, capital on Schedule V-K-5 and rate case related costs are on Schedule II-E-4.5.

A.

III. LONE STAR'S SUPPORT SERVICE NEEDS

A. <u>Overview</u>

15 Q. WHAT ARE "CORPORATE SUPPORT SERVICES"?

Generally speaking, the phrase "corporate support services" refers to the sharing of certain administrative and general support services across several business units. In Lone Star's case, Commission Rule 25.272(c)(4) more specifically defines the phrase to mean: "Services shared by a utility, its parent holding company, or a separate affiliate created to perform corporate support services, with its affiliates of joint corporate oversight, governance, support systems, and personnel." Examples of "corporate support services" provided in Commission Rule 25.272(c)(4) include: human resources, procurement, information

1		technology, regulatory services, administrative services, real estate services, legal
2		services, accounting, environmental services, internal audit, community relations
3		corporate communications, financial services, financial planning and management
4		support, corporate services, corporate secretary and corporate planning.
5		
6	Q.	DOES LONE STAR HAVE A NEED FOR THE TYPES OF SERVICES
7		THAT ARE BEING PROVIDED TO IT AS CORPORATE SUPPORT
8		SERVICES?
9	A.	Yes. Virtually every business needs some level of such services. Lone Star is no
10		exception. Such an organization needs, among other things, human resources,
11		procurement, information technology, regulatory services, administrative services,
12		real estate services, legal services, accounting, environmental services and
13		internal audit services to function on a daily basis. To this end, Lone Star must
14		either hire its own employees or contractors to provide the needed support
15		services or share employees that are already providing the same services to other
16		affiliates.
17		
18		As detailed below and in the direct testimony of Lone Star witness Thomas J.
19		Flaherty, by nature of the fact that Lone Star is a member of the NextEra Energy
20		corporate family, the most beneficial and cost-effective option for the Company is
21		to obtain those services from its parent or affiliates. As described in the direct

testimonies of Lone Star witnesses Michael Grable and David Turner, Lone Star

22

relies on the expertise of its indirect parent, NEET, and its affiliates, NEER and FPL, to provide key support services to the Company.

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4 Q. WHERE IS LONE STAR LOCATED IN THE NEXTERA ENERGY 5 ORGANIZATIONAL CHART?

NextEra Energy has two direct wholly owned subsidiaries – FPL and NextEra Energy Capital Holdings, LLC ("Capital Holdings"). FPL is a regulated utility that only operates in the state of Florida. Capital Holdings is the parent company of two subsidiaries, NEER and NextEra Energy Infrastructure, LLC ("Infrastructure"), which both do business outside the state of Florida. NEER is a non-regulated company that owns generation and retail sales operations. Infrastructure is a holding company that owns primarily regulated transmission assets. Lone Star is an indirect wholly-owned subsidiary of Infrastructure. A summarized organizational chart of NextEra Energy is provided below.

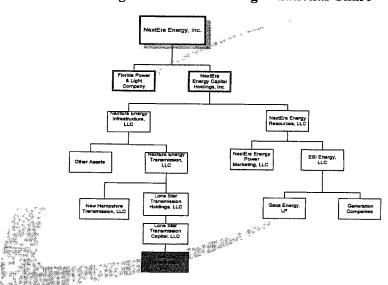


Figure 1 – NextEra Organizational Chart

PUC Docket No. 40020

Dietrich - Direct Lone Star Transmission, LLC 2012 Rate Case Schedule V-K-3 provides the NextEra Energy organizational chart in more detail.

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Q. PLEASE PROVIDE A BRIEF DESCRIPTION OF THE NEXTERA ENERGY SUPPORT SERVICES MODEL.

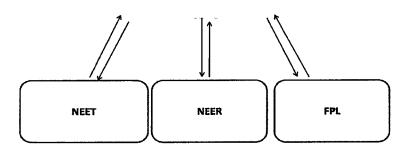
NextEra Energy as a whole operates all of its assets under a support services model, which allows the organization to apply a best practices philosophy, a highly skilled workforce and economies of scale across all of its companies. Under this model, several NextEra Energy companies provide operation and support services of the type that are often provided by a service company. This model allows Lone Star to receive support services from affiliates of NextEra Energy where it benefits Lone Star to do so. The benefits of such a support services model are discussed in the testimony of Mr. Flaherty. An overview of the support services model is shown below:

14

Figure 2 – Lone Star Shared Service Model

LONE STAR SHARED SERVICES MODEL

LONE STAR



LEGEND

- **⊥** Services requested by Lone Star
- ↑ Services provided by affiliates

PUC Docket No. 40020

Dietrich - Direct Lone Star Transmission, LLC 2012 Rate Case

Q. PLEASE PROVIDE A BRIEF DESCRIPTION OF THE AFFILIATES

2 THAT PROVIDE SUPPORT SERVICES TO LONE STAR.

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- A. As discussed above, Lone Star receives support services primarily from three affiliates NEET, NEER and FPL. A brief description of these companies and the services they provide to Lone Star is provided below:
 - NEET NEET, a subsidiary company of NextEra Energy Infrastructure, LLC, is a corporate holding company that controls regulated transmission utility companies located in the states of Texas and New Hampshire, including Lone Star. Between NEET and Lone Star on the organizational chart are two affiliate companies Lone Star Transmission Capital, LLC and Lone Star Transmission Holdings, LLC. NEET was formed to provide governance and management oversight to the regulated transmission companies of NextEra Energy that are not owned by FPL. NEET has executed a Corporate Support Services Agreement with Lone Star. Under the terms of this agreement, NEET performs certain corporate support services for the Company, including NEET business management, business services and transmission operations. Refer to Schedule V-K-4 for a detailed explanation of these services.
 - NEER NEER is an indirect wholly-owned subsidiary of NextEra Energy. NEER (formerly FPL Energy, LLC) was formed in 1998 to aggregate NextEra Energy's existing non-rate regulated energy-related operations. NEER owns, develops, constructs, manages and operates electric-generating facilities that sell power in wholesale energy NEER has executed a Corporate Support Services Agreement with Lone Star. Under the terms of this agreement, NEER performs certain corporate support services for the Company, including: accounting and finances, corporate governance. development, engineering, construction and corporate services ("ECCS") (only to the extent and in accordance with the special exception to the Code of Conduct granted to Lone Star by the Commission) and ISC vendor sourcing. In addition, NEER provides environmental services, HR, IM SAP and data management systems. transaction, commercial and real estate law and treasury. Refer to Schedule V-K-4 for a detailed explanation of other support services.
 - FPL FPL is a rate-regulated vertically integrated electric utility in the state of Florida with approximately 4.5 million customer accounts, approximately 66,743 miles of distribution lines, and over 6,600 circuit miles of 69 kilovolt or above transmission lines. FPL has

1 executed a Corporate Support Services Agreement with Lone Star. 2 Under the terms of this agreement, FPL performs certain corporate 3 support services for the Company, including: accounting and finance. 4 corporate communications, corporate governance, ECCS, which includes: ISC, corporate real estate, and engineering and construction. 5 6 In addition, FPL provides services to support HR, IM, internal audit, 7 regulatory and compliance law, regulatory affairs, strategy, policy and 8 process improvement, environmental services (which is part of 9 strategy, policy and process improvement) and transmission and substation services. 10 Refer to Schedule V-K-4 for a detailed 11 explanation of other support services. 12 Lone Star is able to call upon substantial and highly qualified expertise from these

Lone Star is able to call upon substantial and highly qualified expertise from these three affiliates within the NextEra Energy corporate family in all operational and administrative dimensions to serve Lone Star effectively and efficiently as a regulated utility in Texas. Schedule V-K-3 provides a full organizational chart for NextEra Energy and all affiliate companies. Schedule V-K-4 provides a detailed description of services provided by each affiliate.

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Q. HOW DOES LONE STAR OBTAIN CORPORATE SUPPORT SERVICES FROM ITS AFFILIATES?

Once a necessary service is identified, Lone Star contacts the affiliate business unit to discuss Lone Star's needs and which employee possesses the specialized expertise to support the need. That employee is then assigned to support Lone Star. In the rare situation where an affiliate employee is not able to meet Lone Star's needs, Lone Star will go out to the market and procure such services from a third party.

1	Q.	ARE THE PRICES CHARGED FOR ANY OF THE FPL, NEET AND
2		NEER CORPORATE SUPPORT SERVICES PROVIDED TO LONE STAR
3		ANY HIGHER FOR LONE STAR THAN THE PRICES CHARGED FOR
4		THE SAME ITEM OR CLASS OF ITEMS TO ANY OF FPL'S, NEET'S
5		OR NEER'S OTHER AFFILIATES OR DIVISIONS OR A NON-
6		AFFILIATED PERSON WITHIN THE SAME MARKET AREA OR
7		HAVING THE SAME MARKET CONDITIONS?
8	A.	No. As detailed below and confirmed by Mr. Flaherty, all direct billed, direct
9		assigned and allocated costs are charged in a consistent manner and result in the
10		same pricing for Lone Star as is charged to any affiliates or non-affiliates.
11		
12	Q.	WHAT BENEFITS DO LONE STAR AND ITS CUSTOMERS RECEIVE
13		BY OBTAINING CORPORATE SUPPORT SERVICES FROM THE
14		NEXTERA CORPORATE FAMILY?
15	A.	NEET, NEER and FPL have established organizations that provide Lone Star
16		with access to staff with a diversity of expertise suited to support Lone Star's
17		regulated utility construction and operation activities. This allows Lone Star
18		access to specialized resources that share business philosophies, practices,
19		infrastructure and systems. Having access to personnel with this wide range of
20		experience and skills allows Lone Star to use a portion of an employee's time,
21		when needed, while avoiding the cost of hiring a full-time equivalent. Lone Star
22		could hire its own personnel with these skills and implement these same systems,
23		but at a higher cost in both time and money. For instance, NEER and FPL have

1		staff skilled in SAP, work management, desktop support, telecommunications and
2		other utility specific technologies which Lone Star is able to utilize without hiring
3		and training additional employees.
4		
5		Having these services in place provides efficiencies for Lone Star and has further
6		enabled the Lone Star management team to focus on and execute the Competitive
7		Renewable Energy Zones ("CREZ") project. Lone Star receives services from
8		employees who understand its business and are a part of the NextEra Energy
9		enterprises. In addition, it eliminates the need to separately hire, train and incur
10		costs associated with doing so and improves the quality of the services
11		experienced by Lone Star. Ultimately, Texas customers benefit from Lone Star's
12		ability to utilize affiliate resources rather than having to fully staff its operations.
13		
14		In addition to the corporate shared services support benefits, Lone Star is able to
15		rely on existing relationships that its affiliates have with third-party vendors.
16		
17		B. Support Services Necessary for Lone Star's Operations
18	Q.	CAN YOU PLEASE SUMMARIZE, BY CLASS, THE SUPPORT
19		SERVICES THAT ARE NECESSARY FOR LONE STAR'S ONGOING
20		OPERATIONS?
21	A.	As demonstrated in my testimony and the testimony of other Company witnesses,
22		Lone Star needs, and is requesting recovery for, the following classes of support
23		services:

1	Business Management
2	Business Services
3	Corporate Communications
4	Corporate Governance
5	• Development
6 7	 Engineering, Construction and Corporate Services, which includes Corporate Real Estate and Integrated Supply Chain
8	Environmental Services
9	Finance and Accounting
10	Human Resources
11	Information Management
12	Internal Audit
13	Law Department
14	Regulatory Affairs
15	Strategy, Policy and Process Improvement
16	Transmission Operations
17	Transmission and Substation Services
18	• Treasurer
19	Please refer to Schedule V-K-4 for a detailed description of these support
20	services.