

Control Number: 35077



Item Number: 818

Addendum StartPage: 0



An AEP Company

BOUNDLESS ENERGY

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PUBLIC UTILITY COMMISSION  
FILING CLERK

May 3, 2018

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Public Utility Commission of Texas  
1701 Congress Avenue  
P.O. Box 13326  
Austin, TX 78711-3326

**Re: Docket No. 35077**  
**Fourth Amended and Restated ERCOT Standard Generation Interconnection**  
**Agreement between AEP Texas Inc. and Patriot Wind Farm, LLC**  
**Filing Pursuant to 16 Tex. Admin. Code § 25.195(e) (TAC)**

To whom it may concern:

Enclosed for filing are 4 copies of the Fourth Amended and Restated ERCOT Standard Generation Interconnection Agreement, dated April 13, 2018, between AEP Texas Inc. ("AEP") and Patriot Wind Farm, LLC (the "Agreement"). AEP is subject to the jurisdiction of the Federal Energy Regulatory Commission ("FERC") with respect to transmission rates and service, including generation interconnections. This Agreement has been filed for acceptance with FERC. AEP is also filing this Agreement with the PUCT for informational purposes. Because the Agreement contains deviations from the Commission-approved ERCOT Standard Generation Interconnection Agreement (2007 version published by ERCOT) ("SGIA"), AEP has prepared this letter in accordance with 16 Tex. Admin. Code § 25.195(e) (TAC) identifying the deviations and requests that it be filed with the Agreement.

- The following revisions have been made to the list in the Table of Contents:

*Fourth Amended and Restated ERCOT Standard Generation Interconnection Agreement*

*Exhibit "A" – Terms and Conditions of the Fourth Amended and Restated ERCOT Standard Generation Interconnection Agreement*

*Exhibit "C-1" – Conceptual One-Line Drawing of Point of Interconnection*

*Exhibit "E-1" – Form of Corporate Guaranty*

*Exhibit “E-2” – Form of Irrevocable Standby Letter of Credit*

- The last sentence of the first paragraph of the recital has been revised as follows:

*Pursuant to the terms and conditions of this Agreement, Transmission Service Provider shall interconnect Generator’s Plant with Transmission Service Provider’s System consistent with the results of the Full Interconnection Study that was prepared in response to generation interconnection request #11INR0062 from Wind Tex Energy, LP. and #19INR0019 from Patriot Wind Farm, LLC to ERCOT.*

- The second and third paragraph of the recital has been added as follows:

*The Parties originally entered into an ERCOT Standard Generation Interconnection Agreement as of July 2, 2013 (the “Original Agreement”) and amended and restated the Original Agreement on February 9, 2015 (the “First Amended and Restated Agreement”) and entered into the second amended and restated ERCOT Standard Generation Interconnection Agreement on October 13, 2016 (the “Second Amended and Restated Agreement”).*

*The Parties desire to amend and restate the Second Amended and Restated Agreement as set forth herein for the purpose of 1) changing the Scheduled Trial Operation Date of Exhibit “B” from June 3, 2017 to May 3, 2018; 2) changing the Scheduled Commercial Operation Date of Exhibit “B” from August 15, 2017 to September 27, 2018; 3) changing Plant capacity in Section 4 of Exhibit “C”, from 178.35 MW to 179.55 MW; 4) changing number and size of units in Section 4 of Exhibit “C”, from 58 units at 3.075 MW each to 57 units at 3.15 MW each; 4) changing type of units in Section 5 of Exhibit “C”, from Acciona 3.075 MW wind turbines to Acciona AW125 3.15 MW wind turbines; 5) making updates and certain other changes throughout the Agreement.*

- The fourth paragraph of the recital has been revised as follows:

*This Agreement applies only to the Plant and the Parties’ interconnection facilities as identified in Exhibits “C” and “C-1”.*

- The fifth paragraph of the recital has been revised as follows:

*This Agreement shall become effective on the Execution Date or upon such other date specified by FERC, subject to Governmental Authority approval, if required, and shall continue in full force and effect until terminated in accordance with Exhibit “A”.*

- Item A. of the sixth paragraph of the recital has been revised as follows:

A. The “Terms and Conditions of the Fourth Amended and Restated ERCOT Standard Generation Interconnection Agreement” attached hereto as Exhibit “A”;

- Item E. of the sixth paragraph of the recital has been revised as follows:

E. The Interconnection Details attached hereto as Exhibits “C” and “C-1”;

- Exhibit “A” title has been revised as follows:

*TERMS AND CONDITIONS OF THE FOURTH AMENDED AND  
RESTATE<sup>D</sup> ERCOT STANDARD GENERATION  
INTERCONNECTION AGREEMENT*

- The following definition in Section 1.1 of Article 1. Definitions of the Agreement have been added:

1.1 “Agreement” shall mean this Fourth Amended and Restated ERCOT Standard Generation Interconnection Agreement with all its Exhibits, as it may be amended, supplemented, or otherwise modified from time to time.

- References to the PUCT Rule in the following definition in Section 1.4 of Article 1. Definitions of the Agreement have been revised:

1.4 “Control Area” shall have the meaning ascribed thereto in PUCT Rule 25.5 or its successor.

- The first sentence of the “ERCOT Requirements” definition in Section 1.6 of Article 1. Definitions of the Agreement has been revised as follows:

1.6 “ERCOT Requirements” means the ERCOT Nodal Operating Guides, ERCOT Generation Interconnection Procedures, ERCOT Nodal Protocols as well as any other documents adopted by ERCOT relating to the interconnection and operation of generators and transmission systems in ERCOT as amended from time to time, and any successors thereto.

- A new definition of the Federal Energy Regulatory Commission has been added as Section 1.8 of Article 1. Definitions of the Agreement:

1.7 “FERC” shall mean the Federal Energy Regulatory Commission.

- The definition of “Facilities Study” in Article 1. Definitions of the Agreement has been deleted and replaced with the following:

1.8 “Full Interconnection Study” shall mean the set of studies conducted by the TSP under the Full Interconnection Study Agreement consisting of the

*Steady-State and Transfer Analysis; System Protection (Short-Circuit) Analysis; Dynamic and Transient Stability Analysis; Facilities Study; and if applicable, Sub-Synchronous Oscillation (“SSO”) Study.*

- The definition for “Facilities Study Agreement” has been deleted from Article 1. Definitions of the Agreement and replaced with the following:

*1.9 “Full Interconnection Study Agreement” shall mean the agreement executed by the Parties relating to the performance of the Full Interconnection Study.*

- References to the PUCT Rules in the following definition in Section 1.11 of Article 1. Definitions of the Agreement have been revised:

*1.11 “Good Utility Practice” shall have the meaning described in PUCT Rule 25.5 or its successor.*

- The definition of “Plant” in Article 1. Definitions of the Agreement has been revised as follows:

*1.15 “Plant” shall mean the electric generation facility owned and operated by the Generator, which is comprised of wind turbine-generators and the collection circuits that connect to the GIF, as specified in Exhibit “C”.*

- References to the PUCT Rules in the following definitions in Article 1. Definitions of the Agreement have been revised as follows:

*1.19 “Reasonable Efforts” shall mean the use of Good Utility Practice and the exercise of due diligence (pursuant to PUCT Rule 25.198(e) or its successor).*

*1.21 “System Security Study” shall have the meaning as described in PUCT Rule 25.198(c) or its successor.*

- The first sentence of Section 3.1 of Article 3. Regulatory Filings has been revised as follows:

*The TSP shall file this executed Agreement with FERC, and provide a copy of this Agreement to the PUCT within thirty (30) business days after the Execution Date. Each Party will reasonably cooperate with each other in connection with such filings.*

- Paragraph A. of Section 4.2 of Article 4. Interconnection Facilities Engineering, Procurement, and Construction has been revised as follows:

*A. The TSP has completed the Full Interconnection Study pursuant to the Full Interconnection Study Agreement;*

- Section 4.5 of Article 4. Interconnection Facilities Engineering, Procurement, and Construction has been revised as follows:

*To the extent this Agreement incorporates a specified In-Service Date and the Generator fails to satisfy conditions precedent under Sections 4.2 and, 4.3 so that the TSP may meet the In-Service Date, the Parties will negotiate in good faith to establish a new schedule for completion of the TIF, and the In-Service Date shall be extended accordingly.*

- The following new sentence has been added to Section 5.2 of Article 5. Facilities and Equipment:

*In addition, Generator agrees to design and construct the GIF in accordance with the National Electric Code.*

- The last sentence of Section 5.2 of Article 5. Facilities and Equipment has been revised as follows:

*Within one hundred and twenty (120) days after Commercial Operation . . . the Generator shall deliver to the TSP the following “as-built” drawings, information and documents for the GIF: . . . the facilities connecting the Plant to the main power transformers and the GIF, and the impedances (determined by factory tests) for the associated main power transformers and the generators and the impedance of any transmission voltage lines that are part of the GIF.*

- Paragraph B. of Section 5.5 of Article 5. Facilities and Equipment has been revised as follows:

*B. The metering and telemetry equipment shall be owned by the TSP. However, the TSP shall provide the Generator with metering and telemetry values in accordance with ERCOT Requirements.*

- The first sentence of Paragraph E. of Section 5.5 of Article 5. Facilities and Equipment has been revised as follows:

*E. Prior to the connection of the GIF to the TIF, acceptance tests will be performed by the owning Party . . . to verify the accuracy of data being received by the TSP, ERCOT and the Generator.*

- The following new sentence has been added to Section 6.1 of Article 6. Operation and Maintenance:

*In addition, Generator agrees to operate and maintain its system in accordance with the National Electric Code.*

- The last sentence of Section 6.1 of Article 6. Operation and Maintenance has been revised as follows:

*All testing of the Plant that affects the operation of the Point of Interconnection shall be coordinated between the TSP, ERCOT, and Generator and will be conducted in accordance with ERCOT Requirements.*

- Section 6.2 of Article 6. Operation and Maintenance has been deleted and replaced with the following:

*6.2 Control Area. The Control Area within ERCOT is a single Control Area with ERCOT assuming authority as the Control Area operator in accordance with ERCOT Requirements.*

- Section 6.8 of Article 6. Operation and Maintenance has been revised to sync the spelling of black start with the spelling in the ERCOT protocols
- The reference to “ISO” in Section 7.3 of Article 7. Data Requirements has been replaced with “ERCOT”.
- The second and third sentences of Section 8.3 of Article 8. Performance Obligation have been revised as follows:

*The required security arrangements are specified in Exhibit “E”. Within five (5) business days after TSP has received notice from the Generator that the Plant has achieved Commercial Operation and TSP has verified the same, the TSP shall return the deposit(s) or security to the Generator.*

- The last sentence of Paragraph E. of Section 9.1 of Article 9. Insurance has been revised as follows:

*All policies shall contain provisions whereby the insurers waive all rights of subrogation in accordance with the provisions of this Agreement against the Other Party Group. Each Party shall provide thirty (30) days advance written notice to Other Party Group prior to cancellation or any material change in coverage or condition.*

- The first sentence of Paragraph F. of Section 9.1 of Article 9. Insurance has been revised as follows:

*The Commercial General Liability Insurance, Comprehensive Automobile Liability Insurance and Excess Public Liability Insurance policies shall contain provisions that specify that the policies are primary and non-contributory for any liability arising out of that Party’s negligence, and shall apply to such extent without consideration for other policies separately carried and shall state that each insured is provided coverage as though a separate policy had been issued to*

*each, except the insurer's liability shall not be increased beyond the amount for which the insurer would have been liable had only one insured been covered.*

- The first sentence of Section 10.3 of Article 10. Miscellaneous has been revised as follows:

*This Agreement, including all Exhibits, Attachments and Schedules attached hereto, constitutes the entire agreement between the Parties with reference to the subject matter hereof, and supersedes all prior and contemporaneous understandings or agreements, oral or written, between the Parties with respect to the subject matter of this Agreement, including without limitation the Original Agreement, the First Amended and Restated Agreement, Second Amended and Restated Agreement and the Third Amended and Restated Agreement.*

- The last sentence of Section 10.3 of Article 10. Miscellaneous has been revised as follows:

*Notwithstanding the other provisions of this Section, the Full Interconnection Study Agreement, if any, is unaffected by this Agreement.*

- The last sentence of Section 10.6.A of Article 10. Miscellaneous has been revised as follows:

*Except as provided in Section 10.6.B, the defaulting Party shall have thirty (30) days from receipt of the Default notice within which to cure such Default; provided however, if such Default is not capable of cure within thirty (30) days, the defaulting Party shall commence such cure within thirty (30) days after Default notice and continuously and diligently complete such cure within ninety (90) days from receipt of the Default notice; and, if cured within such time, the Default specified in such Default notice shall cease to exist.*

- The first sentence of Section 10.17 of Article 10. Miscellaneous has been revised as follows:

*This Agreement may be assigned by either Party only with the written consent of the other Party; provided that either Party may assign this Agreement without the consent of the other Party to any affiliate of the assigning Party with an equal or greater credit rating and with the legal authority and operational ability to satisfy the obligations of the assigning Party under this Agreement; and provided further that the Generator shall have the right to assign this Agreement, without the consent of the TSP, for collateral security purposes to aid in providing financing for the Plant, provided that the Generator will require any secured party, trustee or mortgagee to notify the TSP of any such assignment.*

- The third paragraph of Exhibit "B" Time Schedule has been revised as follows:

*Date by which Generator must provide written authorization to proceed with design and procurement and provide security, as specified in Section 4.2, so that TSP may maintain schedule to meet the In-Service Date:*

- The fourth paragraph of Exhibit “B” Time Schedule has been revised as follows:

*Date by which Generator must provide written authorization to commence construction and provide security as specified in Section 4.3, so that TSP may maintain schedule to meet the In-Service Date:*

- The eighth paragraph of Exhibit “B” Time Schedule has been revised as follows:

*Due to the nature of the subject of this Agreement, the Parties may mutually agree to change the date and time of this Exhibit “B”. Generator acknowledges and agrees that if Generator requests that the In-Service Date, Scheduled Trial Operation Date or Scheduled Commercial Operation Date be extended by twelve (12) months or more, TSP must perform a new Full Interconnection Study at Generator’s expense. Upon receiving such a request, TSP may suspend its work until the results of the new Full Interconnection Study are approved by ERCOT and the Parties amend this Agreement to reflect (a) changes in work to be performed by the Parties, (b) changes in costs, (c) changes to schedule, (d) changes in the Security requirements, or (e) changes to other provisions affected by the results of the new Full Interconnection Study. Generator shall be responsible for any costs associated with demobilization pending the new Full Interconnection Study; any costs incurred by TSP as part of the original scope and not used in the revised scope of work; and any additional costs identified as a result of the new Full Interconnection Study.*

Please feel free to contact me at 918-599-2723 or [rlpennybaker@aep.com](mailto:rlpennybaker@aep.com) if there are any questions.

Sincerely,

Robert L. Pennybaker

Robert L. Pennybaker  
Director, System Interconnections  
American Electric Power Service Corporation

**FOURTH AMENDED AND RESTATED  
ERCOT STANDARD GENERATION  
INTERCONNECTION AGREEMENT  
BETWEEN  
AEP TEXAS INC.  
AND  
PATRIOT WIND FARM, LLC**

**Dated:** 4/13/2018 | 9:23 AM EDT

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**Fourth Amended and Restated  
ERCOT Standard Generation  
Interconnection Agreement  
Between  
AEP Texas Inc.  
And  
Patriot Wind Farm, LLC**

This Fourth Amended and Restated ERCOT Standard Generation Interconnection Agreement is made and entered into as of 4/13/2018 | 9:23 AM EDT (the “Execution Date”) between **AEP Texas Inc.** (successor by merger to AEP Texas Central Company) (“Transmission Service Provider”) and **Patriot Wind Farm, LLC** (“Generator”), hereinafter individually referred to as “Party” and collectively referred to as “Parties.” In consideration of the mutual covenants and agreements herein contained, the Parties hereto agree as follows:

Transmission Service Provider represents that it is a public utility that owns and operates facilities for the transmission and distribution of electricity. Generator represents that it will own and operate the Plant. Pursuant to the terms and conditions of this Agreement, Transmission Service Provider shall interconnect Generator’s Plant with Transmission Service Provider’s System consistent with the results of the Full Interconnection Study that was prepared in response to generation interconnection request #11INR0062 from Wind Tex Energy, LP. and #19INR0019 from Patriot Wind Farm, LLC to ERCOT.

The Parties originally entered into an ERCOT Standard Generation Interconnection Agreement as of July 2, 2013 (the “Original Agreement”) and amended and restated the Original Agreement on February 9, 2015 (the “First Amended and Restated Agreement”) and entered into the second amended and restated ERCOT Standard Generation Interconnection Agreement on October 13, 2016 (the “Second Amended and Restated Agreement”) and entered into the third amended and restated ERCOT Standard Generation Interconnection Agreement on May 24, 2017 (the “Third Amended and Restated Agreement”).

The Parties desire to amend and restate the Third Amended and Restated Agreement as set forth herein for the purpose of 1) changing the Scheduled Trial Operation Date of Exhibit “B” from May 3, 2018 to December 31, 2018; 2) changing the Scheduled Commercial Operation Date of Exhibit “B” from September 27, 2018 to March 31, 2019; and 3) changing Plant capacity in Section 4 of Exhibit “C”, from 179.55 MW to 226.05 MW; 4) changing number and size of units in Section 4 of Exhibit “C”, from 57 units at 3.15 MW each to 58 units at 3.6 MW each and 5 units at 3.45 MW each; 4) changing type of units in Section 5 of Exhibit “C”, from Acciona AW125 3.15 MW wind turbines to Vestas V136 - 3.6 MW and Vestas V126 - 3.45 MW; 5) making updates and certain other changes throughout the Agreement.

This Agreement applies only to the Plant and the Parties’ interconnection facilities as identified in Exhibits “C” and “C-1”.

This Agreement shall become effective on the Execution Date or upon such other date specified by FERC, subject to Governmental Authority approval, if required, and shall continue in full force and effect until terminated in accordance with Exhibit "A".

This Agreement will be subject to the following, all of which are incorporated herein:

- A. The "Terms and Conditions of the Fourth Amended and Restated ERCOT Standard Generation Interconnection Agreement" attached hereto as Exhibit "A";
- B. The ERCOT Requirements (unless expressly stated herein, where the ERCOT Requirements are in conflict with this Agreement, the ERCOT Requirements shall prevail);
- C. The PUCT Rules (where the PUCT Rules are in conflict with this Agreement, the PUCT Rules shall prevail);
- D. The Time Schedule attached hereto as Exhibit "B";
- E. The Interconnection Details attached hereto as Exhibits "C" and "C-1";
- F. The notice requirements attached hereto as Exhibit "D"; and
- G. The Security Arrangement Details attached hereto as Exhibit "E".

**[The remainder of this page is intentionally left blank]**

IN WITNESS WHEREOF, the Parties have executed this Agreement in duplicate originals, each of which shall constitute and be an original effective agreement between the Parties.

DS  
JS

**AEP Texas Inc.**

DocuSigned by:  
By: Wade Smith  
805DAAB0D5B24A0

Name: Wade Smith  
Title: Vice President

Date: 4/13/2018 | 9:23 AM EDT

**Patriot Wind Farm, LLC**

By: Patrick Sullivan

Name: Patrick Sullivan  
Title: Vice President

Date: March 9, 2018

## **EXHIBIT “A”**

### **TERMS AND CONDITIONS OF THE FOURTH AMENDED AND RESTATED ERCOT STANDARD GENERATION INTERCONNECTION AGREEMENT**

#### **ARTICLE 1. DEFINITIONS**

Capitalized terms shall have the meanings as set forth below, except as otherwise specified in the Agreement:

1.1 “Agreement” shall mean this Fourth Amended and Restated ERCOT Standard Generation Interconnection Agreement with all its Exhibits, as it may be amended, supplemented, or otherwise modified from time to time.

1.2 “CCN” shall mean a Certificate of Convenience and Necessity issued by the PUCT.

1.3 “Commercial Operation” shall mean the date on which Generator declares that the construction of the Plant has been substantially completed, Trial Operation of the Plant has been completed, and the Plant is ready for dispatch.

1.4 “Control Area” shall have the meaning ascribed thereto in PUCT Rule 25.5 or its successor.

1.5 “ERCOT” shall mean the Electric Reliability Council of Texas, Inc.

1.6 “ERCOT Requirements” means the ERCOT Nodal Operating Guides, ERCOT Generation Interconnection Procedures, ERCOT Nodal Protocols as well as any other documents adopted by ERCOT relating to the interconnection and operation of generators and transmission systems in ERCOT as amended from time to time, and any successors thereto. Any requirement in the foregoing documents imposed upon generation entities or generation facilities shall become the responsibility of the Generator, and any requirements imposed on transmission providers or transmission facilities shall become the responsibility of the TSP.

1.7 “FERC” shall mean the Federal Energy Regulatory Commission.

1.8 “Full Interconnection Study” shall mean the set of studies conducted by the TSP under the Full Interconnection Study Agreement consisting of the Steady-State and Transfer Analysis; System Protection (Short-Circuit) Analysis; Dynamic and Transient Stability Analysis; Facilities Study; and if applicable, Sub-Synchronous Oscillation (“SSO”) Study.

1.9 “Full Interconnection Study Agreement” shall mean the agreement executed by the Parties relating to the performance of the Full Interconnection Study.

- 1.10 “GIF” shall mean Generator’s interconnection facilities as described in Exhibit “C”.
- 1.11 “Good Utility Practice” shall have the meaning described in PUCT Rule 25.5 or its successor.
- 1.12 “Governmental Authority(ies)” shall mean any federal, state, local or municipal body having jurisdiction over a Party.
- 1.13 “In-Service Date” shall be the date, as reflected in Exhibit “B”, that the TIF will be ready to connect to the GIF.
- 1.14 “ISO” shall mean the ERCOT Independent System Operator.
- 1.15 “Plant” shall mean the electric generation facility owned and operated by the Generator, which is comprised of wind turbine-generators and the collection circuits that connect to the GIF, as specified in Exhibit “C”.
- 1.16 “Point of Interconnection” shall mean the location(s) where the GIF connects to the TIF as negotiated and defined by the Parties and as shown on Exhibit “C” of this Agreement.
- 1.17 “PUCT” shall mean the Public Utility Commission of Texas.
- 1.18 “PUCT Rules” shall mean the Substantive Rules of the PUCT.
- 1.19 “Reasonable Efforts” shall mean the use of Good Utility Practice and the exercise of due diligence (pursuant to PUCT Rule 25.198(e) or its successor).
- 1.20 “System Protection Equipment” shall mean those facilities located within the TIF and the GIF as described in Section 5.6 and Exhibit “C”.
- 1.21 “System Security Study” shall have the meaning as described in PUCT Rule 25.198(c) or its successor.
- 1.22 “TCOS” shall mean the TSP’s transmission cost of service as allowed by the applicable Governmental Authority.
- 1.23 “TIF” shall mean the TSP’s interconnection facilities as described in Exhibit “C” to this Agreement.
- 1.24 “Trial Operation” shall mean the process by which the Generator is engaged in on-site test operations and commissioning of the Plant prior to Commercial Operation.
- 1.25 “TSP” shall mean the Transmission Service Provider.
- 1.26 “TSP System” shall mean the electric transmission facilities, including the TIF and all associated equipment and facilities owned and/or operated by the TSP.

## ARTICLE 2. TERMINATION

2.1 Termination Procedures. This Agreement may be terminated as follows:

- A. the Generator may terminate this Agreement after giving the TSP thirty (30) days advance written notice; or
- B. the TSP may terminate this Agreement (subject to Governmental Authority approval, if required) on written notice to the Generator if the Generator's Plant has not achieved Commercial Operation within one (1) year after the scheduled Commercial Operation date reflected in Exhibit "B"; or
- C. either Party may terminate this Agreement in accordance with Section 10.6.

2.2 Termination Costs. If a Party elects to terminate the Agreement pursuant to Section 2.1 above, the Generator shall pay all costs incurred (or committed to be incurred) by TSP, as of the date of the other Party's receipt of such notice of termination, that are the responsibility of the Generator under this Agreement. In the event of termination by either Party, both Parties shall use commercially reasonable efforts to mitigate the damages and charges that they may incur as a consequence of termination. The provisions of the Sections 2.2 and 2.3 shall survive termination of the Agreement.

2.3 Disconnection. Upon termination of this Agreement, the Parties will disconnect the GIF from the TIF.

## ARTICLE 3. REGULATORY FILINGS

3.1 Filing. The TSP shall file this executed Agreement with FERC, and provide a copy of this Agreement to the PUCT. Each Party will reasonably cooperate with each other in connection with such filings. Any portions of this Agreement asserted by Generator to contain competitively sensitive commercial or financial information shall be filed by the TSP identified as "confidential" under seal stating, for the TSP's showing of good cause that Generator asserts such information is confidential information and has requested such filing under seal. If requested by the TSP, Generator shall provide the TSP, in writing, with the Generator's basis for asserting that the information referred to in this Section 3.1 is competitively sensitive information, and the TSP may disclose such writing to the appropriate Governmental Authority.

3.2 Regulatory Approvals. Unless exempt, the TSP shall timely request ISO and all regulatory approvals necessary for it to carry out its responsibilities under this Agreement. Such approvals shall include any CCN required for the construction of the TIF.

#### **ARTICLE 4. INTERCONNECTION FACILITIES ENGINEERING, PROCUREMENT, AND CONSTRUCTION**

4.1 Options. The Generator shall select one (1) of the following options (subsection A or subsection B) and include the selected option in Exhibit "B" for completion of the TIF:

A. The TSP shall design, procure, and construct the TIF, using Reasonable Efforts to complete the TIF by the In-Service Date reflected in Exhibit "B". The TSP will utilize its own resources and will contract for additional resources, as reasonably necessary, to meet the In-Service Date. Such resources shall include, as the TSP believes is reasonable, use of other contractors, other equipment suppliers, other material suppliers, additional contract personnel, additional payments to contractors for expedited work, and premiums paid to equipment and material suppliers for expedited delivery. The TSP shall not be required to undertake any initiative, which is inconsistent with its standard safety practices, its material and equipment specifications, its design criteria and construction procedures, its labor agreements, applicable laws and regulations, and ERCOT Requirements. In the event the TSP reasonably expects that it will not be able to complete the TIF by the In-Service Date, the TSP will promptly provide written notice to the Generator and will undertake Reasonable Efforts to meet the earliest date thereafter.

B. (i) The TSP shall design, procure, and construct the TIF by the In-Service Date reflected in Exhibit "B". The Parties acknowledge that the In-Service Date was either agreed upon through good faith negotiations or designated by the Generator upon failure of the Parties to agree. In the process of negotiating the In-Service Date, Generator will request a date upon which it reasonably expects it will be ready to begin use of the TIF and upon which it reasonably expects to begin doing so. Any date designated by the Generator shall in no event be less than fifteen (15) months from the date that all conditions of Sections 4.2 and 4.3 have been satisfied. The designated In-Service Date will be extended day for day for each day that the ISO refuses to grant clearances to install equipment. If the TSP fails to complete the TIF by the In-Service Date reflected in Exhibit "B", the TSP shall pay the Generator liquidated damages in accordance with this Section 4.1.B.

(ii) The Parties agree that actual damages to the Generator, in the event the TIF are not completed by the In-Service Date, may include Generator's fixed operation and maintenance costs and lost opportunity costs. Such actual damages are uncertain and impossible to determine at this time. The Parties agree that, because of such uncertainty, any liquidated damages paid by the TSP to the Generator shall be an amount equal to  $\frac{1}{2}$  of 1% of the actual cost of the TIF, per day. However, in no event shall the total liquidated damages exceed 20% of the actual cost of the TIF. The Parties agree that such liquidated damages are less than the Generator's actual damages. The Parties agree that the foregoing payments will be made by the TSP to the Generator as just compensation for the damages caused to the Generator, which actual damages are uncertain and impossible to determine at this time, and as reasonable liquidated damages, but not as a penalty or a method to secure performance of this Agreement.

(iii) The TSP shall apply to have the full costs of the TIF included in TCOS. If the PUCT issues a final, appealable order excluding from TCOS any portion of the TIF costs, including higher contractor and vendor costs due to liquidated damage provisions in those contracts and insurance costs to cover liquidated damages, which costs may have been reasonably incurred but which the PUCT finds should not be recovered through TCOS, the Generator shall reimburse the TSP for such costs in an amount not to exceed the difference between the TSP's estimate of the cost of the TIF under Section 4.1.A and the TSP's estimate of the cost of the TIF under Section 4.1.B as reflected in Exhibit "C". Such costs shall be estimated using Good Utility Practice.

(iv) No liquidated damages shall be paid to Generator if the Generator is not ready to commence use of the TIF for the delivery of power to the Plant for Trial Operation or export of power from the Plant on the In-Service Date, unless the Generator would have been able to commence use of the TIF for the delivery of power to the Plant for Trial Operation or export of power from the Plant but for TSP's delay.

(v) If the In-Service Date has been designated by the Generator upon a failure of the Parties to agree on the In-Service Date, the TSP may, at its option, require the Generator to subcontract with the TSP for all or part of the design, procurement, and construction of the TIF in accordance with the TSP's standard subcontractor agreements. In such event, the TSP shall be subject to the payment of liquidated damages to the Generator only if the In-Service Date is not met solely due to the TSP's failure to complete the portion of the TIF for which the TSP has retained responsibility. It is the intent of this subsection to give the TSP full control of the contents and quality of the TIF. To the extent the Generator acts as a subcontractor to the TSP, the following will apply: 1) The Generator shall engineer, procure equipment, and construct the TIF (or portions thereof) using Good Utility Practice and using standards and specifications provided in advance by the TSP; 2) In its engineering, procurement and construction of the TIF, the Generator shall comply with all requirements of law to which the TSP would be subject in the engineering, procurement or construction of the TIF; 3) The TSP shall review and approve the engineering design, acceptance tests of equipment, and the construction of the TIF; 4) The TSP shall have the right to approve and accept for operation the TIF in accordance with the standards and specifications provided in advance by the TSP, such approval and acceptance shall not be unreasonably withheld, conditioned, or delayed; 5) Should any phase of the engineering, equipment procurement, or construction of the TIF, including selection of subcontractors, not meet the standards and specifications provided by the TSP, and therefore be deemed unacceptable, then the Generator shall be obligated to remedy that portion of the TIF or selection of subcontractors that is deemed unacceptable, the TSP's approval of the Generator's selection of subcontractors will not be unreasonably withheld, conditioned or delayed; and 6) Once the TIF are accepted for operation by the TSP, then the TSP shall reimburse the Generator for the reasonable and necessary costs incurred by the Generator to complete the TIF, not to exceed the amount specified in the subcontract. Such reimbursement shall be made within thirty (30) days after receipt of the invoice, unless otherwise agreed to by the Parties.

**4.2 Equipment Procurement.** If responsibility for construction of the TIF is borne by the TSP, then the TSP shall commence design of the TIF and procure necessary equipment within a reasonable time after all of the following conditions are satisfied:

- A. The TSP has completed the Full Interconnection Study pursuant to the Full Interconnection Study Agreement;
- B. The TSP has received written authorization to proceed with design and procurement from the Generator by the date specified in Exhibit “B”; and
- C. The Generator has provided security to the TSP in accordance with Section 8.3 by the dates specified in Exhibit “B”.

4.3 Construction Commencement. The TSP shall commence construction of the TIF as soon as practicable after the following additional conditions are satisfied:

- A. Approval of the appropriate Governmental Authority has been obtained for any facilities requiring regulatory approval;
- B. Necessary real property rights, if any, have been obtained;
- C. The TSP has received written authorization to proceed with construction from the Generator by the date specified in Exhibit “B”; and
- D. The Generator has provided security to the TSP in accordance with Section 8.3 by the dates specified in Exhibit “B”.

4.4 Work Progress. The Parties will keep each other advised periodically as to the progress of their respective design, procurement, and construction efforts. If, at any time, the Generator becomes aware that the completion of the TIF will not be required until after the specified In-Service Date, the Generator will promptly provide written notice to the TSP of a new, later In-Service Date.

4.5 Conditions Precedent Delay. To the extent this Agreement incorporates a specified In-Service Date and the Generator fails to satisfy conditions precedent under Sections 4.2 and 4.3 so that the TSP may meet the In-Service Date, the Parties will negotiate in good faith to establish a new schedule for completion of the TIF, and the In-Service Date shall be extended accordingly.

## **ARTICLE 5. FACILITIES AND EQUIPMENT**

5.1 Information Exchange. The Parties shall exchange information and mutually agree upon the design and compatibility of the Parties’ interconnection facilities. The Parties shall work diligently and in good faith to make any necessary design changes to ensure compatibility of the GIF to the TSP System.

5.2 GIF Construction. Generator agrees to cause the GIF to be designed and constructed in accordance with Good Utility Practice, ERCOT Requirements, and the National Electrical Safety Code in effect at the time of construction. In addition, Generator agrees to design and construct the GIF in accordance with the National Electric Code. Within one hundred and twenty (120) days after Commercial Operation, unless the Parties agree on another mutually acceptable deadline, the Generator shall deliver to the TSP the following “as-built” drawings, information and documents for the GIF: a one-line diagram, a site plan showing the Plant and the GIF, plan

and elevation drawings showing the layout of the GIF, a relay functional diagram, relaying AC and DC schematic wiring diagrams and relay settings for all facilities associated with the Generator's main-power transformers, the facilities connecting the Plant to the main power transformers and the GIF, and the impedances (determined by factory tests) for the associated main power transformers and the generators and the impedance of any transmission voltage lines that are part of the GIF.

5.3 TIF Construction. The TSP agrees to cause the TIF to be designed and constructed in accordance with Good Utility Practice, ERCOT Requirements, and the National Electrical Safety Code in effect at the time of construction.

5.4 Equipment Changes. For facilities not described in Exhibit "C", if either Party makes equipment changes to the Plant, the GIF, the TIF or the TSP System which it knows will affect the operation or performance of the other Party's interconnection facilities, the Parties agree to notify the other Party, in writing, of such changes. Such changes shall be made in accordance with ERCOT Requirements and coordinated between the Parties.

5.5 Metering, Telemetry and Communications Requirements.

A. Metering and telemetry of data will be accomplished in accordance with ERCOT Requirements. The specific metering, telemetry and communications equipment to be installed and data to be telemetered are described in Exhibit "C".

B. The metering and telemetry equipment shall be owned by the TSP. However, the TSP shall provide the Generator with metering and telemetry values in accordance with ERCOT Requirements.

C. A minimum set of inputs to the telemetry equipment is specified in Exhibit "C". Additional sets of inputs may be subsequently mutually agreed upon.

D. The TSP will notify the Generator at least five (5) working days in advance of any planned maintenance, inspection, testing, or calibration of the metering equipment, unless otherwise agreed to in writing. The Generator, or its designated representative, shall have the right to be present for these activities and to receive copies of any documents related to the procedures and results.

E. Prior to the connection of the GIF to the TIF, acceptance tests will be performed by the owning Party to ensure the proper functioning of all metering, telemetry and communications equipment associated with the Point of Interconnection and both Parties' interconnection facilities, and to verify the accuracy of data being received by the TSP, ERCOT and the Generator. All acceptance tests will be performed consistent with ERCOT Requirements.

F. The TSP shall, in accordance with Good Utility Practice and ERCOT Requirements, specify communications facilities, including those necessary to transmit data from the metering equipment to the TSP, that are necessary for the effective operation of the Plant and

the GIF with the TSP System. Such communication facilities shall be included in Exhibit "C". The Generator shall make arrangements to procure and bear the cost of such facilities.

G. Any changes to the meters, telemetry equipment, voltage transformers, current transformers, and associated panels, hardware, conduit and cable, which will affect the data being received by the other Party must be mutually agreed to by the Parties.

H. Each Party will promptly advise the other Party if it detects or otherwise learns of any metering, telemetry or communications equipment errors or malfunctions that require the attention and/or correction by the other Party. The Party owning such equipment shall correct such error or malfunction as soon as reasonably feasible in accordance with ERCOT Requirements.

#### 5.6 System Protection and Other Controls Requirements.

A. Each Party's facilities shall be designed to isolate any fault, or correct or isolate any abnormality that would negatively affect the other Party's system or other entities connected to the TSP System.

B. The Generator shall be responsible for protection of its facilities consistent with ERCOT Requirements.

C. Each Party's protective relay design shall incorporate the necessary test switches to perform the tests required in Section 5.6.F. The required test switches will be placed such that they allow operation of lockout relays while preventing breaker failure schemes from operating and causing unnecessary breaker operations and tripping the Generator's units.

D. Recording equipment shall be installed to analyze all system disturbances in accordance with ERCOT Requirements.

E. Each Party will test, operate, and maintain System Protection Equipment in accordance with ERCOT Requirements. Each Party will provide reasonable notice to the other Party of any testing of its System Protection Equipment allowing such other Party the opportunity to have representatives present during testing of its System Protection Equipment.

F. Prior to the In-Service Date, and again prior to Commercial Operation, each Party or its agent shall perform a complete calibration test and functional trip test of the System Protection Equipment. At intervals suggested by Good Utility Practice or at intervals described in the ERCOT Requirements if so defined therein, and following any apparent malfunction of the System Protection Equipment, each Party shall perform both calibration and functional trip tests of its System Protection Equipment. These tests do not require the tripping of any in-service generation unit. These tests do, however, require that all protective relays and lockout contacts be activated.

5.7 No Annexation. Any and all equipment placed on the premises of a Party shall be and remain the property of the Party providing such equipment regardless of the mode and manner of annexation or attachment to real property, unless otherwise mutually agreed by the Parties.

## ARTICLE 6. OPERATION AND MAINTENANCE

6.1 Operation and Maintenance of Interconnection Facilities. The Parties agree to operate and maintain their systems in accordance with Good Utility Practice, National Electrical Safety Code, ERCOT Requirements, PUCT Rules and all applicable laws and regulations. In addition, Generator agrees to operate and maintain its system in accordance with the National Electric Code. Subject to any necessary ISO approval, each Party shall provide necessary equipment outages to allow the other Party to perform periodic maintenance, repair, or replacement of its facilities. Such outages shall be scheduled at mutually agreeable times, unless conditions exist which a Party believes, in accordance with Good Utility Practice, may endanger persons or property. No changes will be made in the normal operation of the Point of Interconnection without the mutual agreement of the Parties except as otherwise provided herein. All testing of the Plant that affects the operation of the Point of Interconnection shall be coordinated between the TSP, ERCOT, and Generator and will be conducted in accordance with ERCOT Requirements.

6.2 Control Area. The Control Area within ERCOT is a single Control Area with ERCOT assuming authority as the Control Area operator in accordance with ERCOT Requirements.

6.3 Land Rights and Easements. Terms and conditions addressing the rights of the TSP and the Generator regarding any facilities located on the other Party's property shall be addressed in a separate, duly executed and recorded easement agreement between the Parties. Prior to Commercial Operation, the Parties will mutually agree upon procedures to govern access to each other's property as necessary for the Parties to fulfill their obligations hereunder.

6.4 Service Interruption. The Parties recognize that the interruption of service provisions of the PUCT Rules give TSP the right to disconnect the TSP System from the Plant under the conditions specified therein. The Generator will promptly disconnect the Plant from the TSP System when required by and in accordance with the PUCT Rules and ERCOT Requirements.

6.5 Switching and Clearance.

A. Any switching or clearances needed on the TIF or the GIF will be done in accordance with ERCOT Requirements.

B. Any switching and clearance procedure necessary to comply with Good Utility Practice or ERCOT Requirements that may have specific application to the Plant shall be addressed in Exhibit "C".

6.6 Start-Up and Synchronization. Consistent with ERCOT Requirements and the Parties'

mutually acceptable procedure, the Generator is responsible for the proper synchronization of the Plant to the TSP System.

6.7 Routine Operational Communications. On a timely basis, the Parties shall exchange all information necessary to comply with ERCOT Requirements.

6.8 Black Start Operations. If the Plant is capable of black start operations, Generator will coordinate individual Plant start-up procedures consistent with ERCOT Requirements. Any black start operations shall be conducted in accordance with the black start criteria included in the ERCOT Requirements and the TSP's Black Start Plan on file with the ISO. Notwithstanding this Section, the Generator is not required to have black start capability by virtue of this Agreement. If the Generator will have black start capability, then Generator shall provide and maintain an emergency communication system that will interface with the TSP during a black start condition.

6.9 Power System Stabilizers. The Generator shall procure, install, maintain and operate power system stabilizers if required to meet ERCOT Requirements and as described in Exhibit "C."

## **ARTICLE 7. DATA REQUIREMENTS**

7.1 Data Acquisition. The acquisition of data to realistically simulate the electrical behavior of system components is a fundamental requirement for the development of a reliable interconnected transmission system. Therefore, the TSP and the Generator shall be required to submit specific information regarding the electrical characteristics of their respective facilities to each other as described below in accordance with ERCOT Requirements.

7.2 Initial Data Submission by TSP. The initial data submission by the TSP shall occur no later than one hundred twenty (120) days prior to Trial Operation and shall include transmission system data necessary to allow the Generator to select equipment and meet any system protection and stability requirements.

7.3 Initial Data Submission by Generator. The initial data submission by the Generator, including manufacturer data, shall occur no later than ninety (90) days prior to the Trial Operation and shall include a completed copy of the following forms contained in the ERCOT Generation Interconnection Procedure: 1) Plant Description/Data and 2) Generation Stability Data. It shall also include any additional data provided to the ISO for the System Security Study. Data in the initial submissions shall be the most current Plant design or expected performance data. Data submitted for stability models shall be compatible with the ISO standard models. If there is no compatible model, the Generator will work with an ISO designated consultant to develop and supply a standard model and associated data.

7.4 Data Supplementation. Prior to Commercial Operation, the Parties shall supplement their initial data submissions with any and all "as-built" Plant data or "as-tested" performance data,

which differs from the initial submissions or, alternatively, written confirmation that no such differences exist. Subsequent to Commercial Operation, the Generator shall provide the TSP any data changes due to equipment replacement, repair, or adjustment. The TSP shall provide the Generator any data changes due to equipment replacement, repair, or adjustment in the directly connected substation or any adjacent TSP-owned substation that may affect the GIF equipment ratings, protection or operating requirements. The Parties shall provide such data no later than thirty (30) days after the date of the actual change in equipment characteristics. Also, the Parties shall provide to each other a copy of any additional data later required by the ISO concerning these facilities.

7.5 Data Exchange. Each Party shall furnish to the other Party real-time and forecasted data as required by ERCOT Requirements. The Parties will cooperate with one another in the analysis of disturbances to either the Plant or the TSP's System by gathering and providing access to any information relating to any disturbance, including information from oscillography, protective relay targets, breaker operations, and sequence of events records.

## **ARTICLE 8. PERFORMANCE OBLIGATION**

### **8.1 Generator's Cost Responsibility.**

A. The Generator will acquire, construct, operate, test, maintain, and own the Plant and GIF at its sole expense.

B. In addition, the Generator may be required to make a contribution in aid of construction in the amount set out in and for the facilities described in Exhibit "C", if any, in accordance with PUCT Rules.

8.2 TSP's Cost Responsibility. The TSP will acquire, own, operate, test, and maintain the TIF at its sole expense, subject to the provisions of Section 4.1.B and the contribution in aid of construction provisions of Section 8.1 of this Agreement.

8.3 Financial Security Arrangements. The TSP may require the Generator to pay a reasonable deposit or provide another means of security, to cover the costs of planning, licensing, procuring equipment and materials, and constructing the TIF. The required security arrangements are specified in Exhibit "E". Within five (5) business days after TSP has received notice from the Generator that the Plant has achieved Commercial Operation and TSP has verified the same, the TSP shall return the deposit(s) or security to the Generator. However, the TSP may retain an amount to cover the incremental difference between the TSP's actual out-of-pocket costs associated with the choice of Section 4.1.B over Section 4.1.A, pending a final PUCT Order as contemplated in Section 4.1.B(iii). If the Plant has not achieved Commercial Operation within one (1) year after the scheduled Commercial Operation date identified in Exhibit "B" or if the Generator terminates this Agreement in accordance with Section 2.1 and the TIF are not required, the TSP may, subject to the provisions of Section 2.2, retain as much of the deposit or security as is required to cover the costs it incurred in planning, licensing, procuring

equipment and materials, and constructing the TIF. If a cash deposit is made pursuant to Exhibit "E", any repayment of such cash deposit shall include interest at a rate applicable to customer deposits as established from time to time by the PUCT or other Governmental Authority.

## ARTICLE 9. INSURANCE

9.1 Each Party shall, at its own expense, maintain in force throughout the period of this Agreement, and until released by the other Party, the following minimum insurance coverages, with insurers authorized to do business in Texas:

A. Employers Liability and Worker's Compensation Insurance providing statutory benefits in accordance with the laws and regulations of the State of Texas. The minimum limits for the Employer's Liability insurance shall be One Million Dollars (\$1,000,000) each accident bodily injury by accident, One Million Dollars (\$1,000,000) each employee bodily injury by disease, and One Million Dollars (\$1,000,000) policy limit bodily injury by disease.

B. Commercial General Liability Insurance including premises and operations, personal injury, broad form property damage, broad form blanket contractual liability coverage (including coverage for the contractual indemnification) products and completed operations coverage, coverage for explosion, collapse and underground hazards, independent contractors coverage, coverage for pollution to the extent normally available and punitive damages to the extent normally available and a cross liability endorsement, with minimum limits of One Million Dollars (\$1,000,000) per occurrence/One Million Dollars (\$1,000,000) aggregate combined single limit for personal injury, bodily injury, including death and property damage.

C. Comprehensive Automobile Liability Insurance for coverage of owned, non-owned and hired vehicles, trailers or semi-trailers designed for travel on public roads, with a minimum combined single limit of One Million Dollars (\$1,000,000) per occurrence for bodily injury, including death, and property damage.

D. Excess Public Liability Insurance over and above the Employer's Liability, Commercial General Liability and Comprehensive Automobile Liability Insurance coverage, with a minimum combined single limit of Twenty Million Dollars (\$20,000,000) per occurrence/Twenty Million Dollars (\$20,000,000) aggregate.

E. The Commercial General Liability Insurance, Comprehensive Automobile Liability Insurance, and Excess Public Liability Insurance policies shall name the other Party, its parent, associated and affiliated companies and their respective directors, officers, agents, servants and employees ("Other Party Group") as additional insured. All policies shall contain provisions whereby the insurers waive all rights of subrogation in accordance with the provisions of this Agreement against the Other Party Group. Each Party shall provide thirty (30) days advance written notice to Other Party Group prior to cancellation or any material change in coverage or condition.

F. The Commercial General Liability Insurance, Comprehensive Automobile Liability Insurance and Excess Public Liability Insurance policies shall contain provisions that specify that the policies are primary and non-contributory for any liability arising out of that Party's negligence, and shall apply to such extent without consideration for other policies separately carried and shall state that each insured is provided coverage as though a separate policy had been issued to each, except the insurer's liability shall not be increased beyond the amount for which the insurer would have been liable had only one insured been covered. Each Party shall be responsible for its respective deductibles or retentions.

G. The Commercial General Liability Insurance, Comprehensive Automobile Liability Insurance and Excess Public Liability Insurance policies, if written on a Claims First Made basis, shall be maintained in full force and effect for two (2) years after termination of this Agreement, which coverage may be in the form of tail coverage or extended reporting period coverage if agreed by the Parties.

H. The requirements contained herein as to the types and limits of all insurance to be maintained by the Parties are not intended to and shall not in any manner, limit or qualify the liabilities and obligations assumed by the Parties under this Agreement.

I. Within ten (10) days following execution of this Agreement, and as soon as practicable after the end of each fiscal year or at the renewal of the insurance policy and in any event within ninety (90) days thereafter, each Party shall provide certification of all insurance required in this Agreement, executed by each insurer or by an authorized representative of each insurer.

J. Notwithstanding the foregoing, each Party may self-insure to the extent it maintains a self-insurance program; provided that, such Party's senior secured debt is rated at investment grade, or better, by Standard & Poor's. For any period of time that a Party's senior secured debt is unrated by Standard & Poor's or is rated at less than investment grade by Standard & Poor's, such Party shall comply with the insurance requirements applicable to it under Sections 9.1.A through 9.1.I. In the event that a Party is permitted to self-insure pursuant to this Section 9.1.J, it shall not be required to comply with the insurance requirements applicable to it under Sections 9.1.A through 9.1.I.

K. The Parties agree to report to each other in writing as soon as practical all accidents or occurrences resulting in injuries to any person, including death, and any property damage arising out of this Agreement.

## **ARTICLE 10. MISCELLANEOUS**

### **10.1 Governing Law and Applicable Tariffs.**

A. This Agreement for all purposes shall be construed in accordance with and governed by the laws of the State of Texas, excluding conflicts of law principles that would refer

to the laws of another jurisdiction. The Parties submit to the jurisdiction of the federal and state courts in the State of Texas.

B. This Agreement is subject to all valid, applicable rules, regulations and orders of, and tariffs approved by, duly constituted Governmental Authorities.

C. Each Party expressly reserves the right to seek changes in, appeal, or otherwise contest any laws, orders, rules, or regulations of a Governmental Authority.

10.2 No Other Services. This Agreement is applicable only to the interconnection of the Plant to the TSP System at the Point of Interconnection and does not obligate either Party to provide, or entitle either Party to receive, any service not expressly provided for herein. Each Party is responsible for making the arrangements necessary for it to receive any other service that it may desire from the other Party or any third party. This Agreement does not address the sale or purchase of any electric energy, transmission service, or ancillary services by either Party, either before or after Commercial Operation.

10.3 Entire Agreement. This Agreement, including all Exhibits, Attachments and Schedules attached hereto, constitutes the entire agreement between the Parties with reference to the subject matter hereof, and supersedes all prior and contemporaneous understandings or agreements, oral or written, between the Parties with respect to the subject matter of this Agreement, including without limitation the Original Agreement, the First Amended and Restated Agreement, Second Amended and Restated Agreement and the Third Amended and Restated Agreement. There are no other agreements, representations, warranties, or covenants, which constitute any part of the consideration for, or any condition to, either Party's compliance with its obligations under this Agreement. Notwithstanding the other provisions of this Section, the Full Interconnection Study Agreement, if any, is unaffected by this Agreement.

10.4 Notices. Except as otherwise provided in Exhibit "D", any formal notice, demand or request provided for in this Agreement shall be in writing and shall be deemed properly served, given or made if delivered in person, or sent by either registered or certified mail, postage prepaid, overnight mail or fax to the address or number identified on Exhibit "D" attached to this Agreement. Either Party may change the notice information on Exhibit "D" by giving five (5) business days written notice prior to the effective date of the change.

10.5 Force Majeure.

A. The term "Force Majeure" as used herein shall mean any cause beyond the reasonable control of the Party claiming Force Majeure, and without the fault or negligence of such Party, which materially prevents or impairs the performance of such Party's obligations hereunder, including but not limited to, storm, flood, lightning, earthquake, fire, explosion, failure or imminent threat of failure of facilities, civil disturbance, strike or other labor disturbance, sabotage, war, national emergency, or restraint by any Governmental Authority.

B. Neither Party shall be considered to be in Default (as hereinafter defined) with respect to any obligation hereunder (including obligations under Article 4), other than the

obligation to pay money when due, if prevented from fulfilling such obligation by Force Majeure. A Party unable to fulfill any obligation hereunder (other than an obligation to pay money when due) by reason of Force Majeure shall give notice and the full particulars of such Force Majeure to the other Party in writing or by telephone as soon as reasonably possible after the occurrence of the cause relied upon. Telephone notices given pursuant to this Section shall be confirmed in writing as soon as reasonably possible and shall specifically state full particulars of the Force Majeure, the time and date when the Force Majeure occurred and when the Force Majeure is reasonably expected to cease. The Party affected shall exercise due diligence to remove such disability with reasonable dispatch, but shall not be required to accede or agree to any provision not satisfactory to it in order to settle and terminate a strike or other labor disturbance.

#### 10.6 Default

A. The term “Default” shall mean the failure of either Party to perform any obligation in the time or manner provided in this Agreement. No Default shall exist where such failure to discharge an obligation (other than the payment of money) is the result of Force Majeure as defined in this Agreement or the result of an act or omission of the other Party. Upon a Default, the non-defaulting Party shall give written notice of such Default to the defaulting Party. Except as provided in Section 10.6.B, the defaulting Party shall have thirty (30) days from receipt of the Default notice within which to cure such Default; provided however, if such Default is not capable of cure within thirty (30) days, the defaulting Party shall commence such cure within thirty (30) days after Default notice and continuously and diligently complete such cure within ninety (90) days from receipt of the Default notice; and, if cured within such time, the Default specified in such Default notice shall cease to exist.

B. If a Default is not cured as provided in this Section, or if a Default is not capable of being cured within the period provided for herein, the non-defaulting Party shall have the right to terminate this Agreement by written notice at any time until cure occurs, and be relieved of any further obligation hereunder and, whether or not that Party terminates this Agreement, to recover from the defaulting Party all amounts due hereunder, plus all other damages and remedies to which it is entitled at law or in equity. The provisions of this Section will survive termination of this Agreement.

10.7 Intrastate Operation. The operation of the Plant by Generator shall not cause there to be a synchronous or an asynchronous interconnection between ERCOT and any other transmission facilities operated outside of ERCOT unless ordered by the Federal Energy Regulatory Commission under Section 210 of the Federal Power Act. The Parties recognize and agree that any such interconnection will constitute an adverse condition giving the TSP the right to immediately disconnect the TIF from the GIF, until such interconnection has been disconnected. The Generator will not be prohibited by this Section from interconnecting the Plant with facilities operated by the Comision Federal de Electricidad of Mexico, unless such interconnection would cause ERCOT utilities that are not “public utilities” under the Federal Power Act to become subject to the plenary jurisdiction of the Federal Energy Regulatory Commission.

10.8 No Third Party Beneficiaries. This Agreement is not intended to and does not create rights, remedies, or benefits of any character whatsoever in favor of any persons, corporations, associations, or entities other than the Parties, and the obligations herein assumed are solely for the use and benefit of the Parties, their successors in interest and, where permitted, their assigns.

10.9 No Waiver. The failure of a Party to this Agreement to insist, on any occasion, upon strict performance of any provision of this Agreement will not be considered a waiver of obligations, rights, or duties imposed upon the Parties. Termination or Default of this Agreement for any reason by the Generator shall not constitute a waiver of the Generator's legal rights to obtain an interconnection from the TSP under a new interconnection agreement.

10.10 Headings. The descriptive headings of the various articles and sections of this Agreement have been inserted for convenience of reference only and are of no significance in the interpretation or construction of this Agreement.

10.11 Multiple Counterparts. This Agreement may be executed in two (2) or more counterparts, each of which is deemed an original but all constitute one and the same instrument.

10.12 Amendment. This Agreement may be amended only upon mutual agreement of the Parties, which amendment will not be effective until reduced to writing and executed by the Parties.

10.13 No Partnership. This Agreement shall not be interpreted or construed to create an association, joint venture, agency relationship, or partnership between the Parties or to impose any partnership obligation or liability upon either Party. Neither Party shall have any right, power or authority to enter into any agreement or undertaking for, or act on behalf of, or to act as or be an agent or representative of, or to otherwise bind, the other Party.

10.14 Further Assurances. The Parties agree to (i) furnish upon request to each other such further information, (ii) execute and deliver to each other such other documents, and (iii) do such other acts and things, all as the other Party may reasonably request for the purpose of carrying out the intent of this Agreement and the documents referred to in this Agreement. Without limiting the generality of the foregoing, the TSP shall, at the Generator's expense, when reasonably requested to do so by the Generator at any time after the execution of this Agreement, prepare and provide such information in connection with this Agreement (including, if available, resolutions, certificates, opinions of counsel or other documents relating to the TSP's corporate authorization to enter into this Agreement and to undertake the obligations set out herein) as may be reasonably required by any potential lender to the Generator under a proposed loan agreement. The TSP will use commercially reasonable efforts to obtain any opinion of counsel reasonably requested by Generator, but the TSP shall not be in Default of any obligation under this Agreement if the TSP is unable to provide an opinion of counsel that will satisfy any potential lender to the Generator. Specifically, upon the written request of one Party, the other Party shall provide the requesting Party with a letter stating whether or not, up to the date of the letter, that Party is satisfied with the performance of the requesting Party under this Agreement.

10.15 Indemnification and Liability. The indemnification and liability provisions of the PUCT Rule 25.202(b)(2) or its successor shall govern this Agreement.

10.16 Consequential Damages. OTHER THAN THE LIQUIDATED DAMAGES HERETOFORE DESCRIBED, IN NO EVENT SHALL EITHER PARTY BE LIABLE UNDER ANY PROVISION OF THIS AGREEMENT FOR ANY LOSSES, DAMAGES, COSTS OR EXPENSES FOR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL, OR PUNITIVE DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF PROFIT OR REVENUE, LOSS OF THE USE OF EQUIPMENT, COST OF CAPITAL, COST OF TEMPORARY EQUIPMENT OR SERVICES, WHETHER BASED IN WHOLE OR IN PART IN CONTRACT, IN TORT, INCLUDING NEGLIGENCE, STRICT LIABILITY, OR ANY OTHER THEORY OF LIABILITY; PROVIDED, HOWEVER, THAT DAMAGES FOR WHICH A PARTY MAY BE LIABLE TO THE OTHER PARTY UNDER ANOTHER AGREEMENT WILL NOT BE CONSIDERED TO BE SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES HEREUNDER.

10.17 Assignment. This Agreement may be assigned by either Party only with the written consent of the other Party; provided that either Party may assign this Agreement without the consent of the other Party to any affiliate of the assigning Party with an equal or greater credit rating and with the legal authority and operational ability to satisfy the obligations of the assigning Party under this Agreement; and provided further that the Generator shall have the right to assign this Agreement, without the consent of the TSP, for collateral security purposes to aid in providing financing for the Plant, provided that the Generator will require any secured party, trustee or mortgagee to notify the TSP of any such assignment. Any financing arrangement entered into by the Generator pursuant to this Section will provide that prior to or upon the exercise of the secured party's, trustee's or mortgagee's assignment rights pursuant to said arrangement, the secured creditor, the trustee or mortgagee will notify the TSP of the date and particulars of any such exercise of assignment right(s). Any attempted assignment that violates this Section is void and ineffective. Any assignment under this Agreement shall not relieve a Party of its obligations, nor shall a Party's obligations be enlarged, in whole or in part, by reason thereof. Where required, consent to assignment will not be unreasonably withheld, conditioned, or delayed.

10.18 Severability. If any provision in this Agreement is finally determined to be invalid, void or unenforceable by any court having jurisdiction, such determination shall not invalidate, void or make unenforceable any other provision, agreement or covenant of this Agreement; provided that if the Generator (or any third-party, but only if such third-party is not acting at the direction of the TSP) seeks and obtains such a final determination with respect to any provision of Section 4.1.B, then none of the provisions of Section 4.1.B. shall thereafter have any force or effect and the Parties' rights and obligations shall be governed solely by Section 4.1.A.

10.19 Comparability. The Parties will comply with all applicable comparability and code of conduct laws, rules, and regulations, as amended from time to time.

10.20 Invoicing and Payment. Unless the Parties otherwise agree (in a manner permitted by applicable PUCT Rules and as specified in writing in an Exhibit “E” attached hereto), invoicing and payment rights and obligations under this Agreement shall be governed by PUCT Rules or applicable Governmental Authority. Invoices shall be rendered to the paying Party at the address specified on, and payments shall be made in accordance with the requirements of, Exhibit “D”.

10.21 Confidentiality.

A. Subject to the exception in Section 10.21.B, any information that a Party claims is competitively sensitive, commercial or financial information under this Agreement (“Confidential Information”) shall not be disclosed by the other Party to any person not employed or retained by the other Party, except to the extent disclosure is (i) required by law; (ii) reasonably deemed by the disclosing Party to be required to be disclosed in connection with a dispute between or among the Parties, or the defense of litigation or dispute; (iii) otherwise permitted by consent of the other Party, such consent not to be unreasonably withheld; or (iv) necessary to fulfill its obligations under this Agreement or as a transmission service provider or a Control Area operator including disclosing the Confidential Information to the ISO. The Party asserting confidentiality shall notify the other Party in writing of the information it claims is confidential. Prior to any disclosures of the other Party’s Confidential Information under this subsection, or if any third party or Governmental Authority makes any request or demand for any of the information described in this subsection, the disclosing Party agrees to promptly notify the other Party in writing and agrees to assert confidentiality and cooperate with the other Party in seeking to protect the Confidential Information from public disclosure by confidentiality agreement, protective order or other reasonable measures.

B. This provision shall not apply to any information that was or is hereafter in the public domain (except as a result of a breach of this provision).

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## EXHIBIT "B"

### TIME SCHEDULE

Interconnection Option chosen by Generator (check one): X Section 4.1.A. or \_\_\_ Section 4.1.B

If Section 4.1.B is chosen by Generator, the In-Service Date(s) was determined by (check one):  
(1) \_\_\_\_\_ good faith negotiations, or (2) \_\_\_\_\_ designated by Generator upon failure to agree.

Date by which Generator must provide written authorization to proceed with design and procurement and provide security, as specified in Section 4.2, so that TSP may maintain schedule to meet the In-Service Date:

As of the Execution Date of the Original Agreement, Generator provided such written authorization to TSP. Generator provided Security as set forth in Section 1 of Exhibit "E" of the Original Agreement.

Date by which Generator must provide written authorization to commence construction and provide security as specified in Section 4.3, so that TSP may maintain schedule to meet the In-Service Date:

As of the Execution Date of the Original Agreement, Generator provided such written authorization to TSP. Generator provided Security as set forth in Section 1 of Exhibit "E" of the Original Agreement.

In - Service Date(s):

The TIF construction of the 345 kV terminal within TSP's Nelson Sharpe Station ("Station") is complete and prepared to be energized. TIF construction within the Generator's Substation is pending GIF being constructed and completed

Scheduled Trial Operation Date:

December 31, 2018

Scheduled Commercial Operation Date:

March 31, 2019

Due to the nature of the subject of this Agreement, the Parties may mutually agree to change the date and time of this Exhibit "B". Generator acknowledges and agrees that if Generator requests that the In-Service Date, Scheduled Trial Operation Date or Scheduled Commercial Operation Date be extended by twelve (12) months or more, TSP must perform a new Full Interconnection Study at Generator's expense. Upon receiving such a request, TSP may suspend its work until

the results of the new Full Interconnection Study are approved by ERCOT and the Parties amend this Agreement to reflect (a) changes in work to be performed by the Parties, (b) changes in costs, (c) changes to schedule, (d) changes in the Security requirements, or (e) changes to other provisions affected by the results of the new Full Interconnection Study. Generator shall be responsible for any costs associated with demobilization pending the new Full Interconnection Study; any costs incurred by TSP as part of the original scope and not used in the revised scope of work; and any additional costs identified as a result of the new Full Interconnection Study.

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## EXHIBIT “C”

### INTERCONNECTION DETAILS

1. **Substation Name:** Shaffer

2. **Location:**

Generator’s Shaffer Substation (“Substation”) will be located in Nueces County, Texas. Once the facilities are completed and energized, the Point of Interconnection will be located at the first dead-end structure outside TSP’s Nelson Sharpe Station (“Station”) that terminates Generator’s 345 kV transmission line from the Substation. Specifically, the Point of Interconnection will be located where TSP’s jumper conductors at the dead-end structure outside the Station fence connect to Generator’s 345 kV transmission line conductors from the Substation. See attached Exhibit “C-1”.

3. **Delivery Voltage:** 345 kV

4. **Number and Size of Generating Units:** Nominal 226.05 MW Plant capacity comprised of 58 units at 3.6 MW each and 5 units at 3.45 MW each

5. **Type of Generating Units:** Vestas V136 - 3.6 MW and Vestas V126 - 3.45 MW wind turbines

6. **Metering, SCADA and Monitoring Equipment:**

6.1. The ERCOT Polled Settlement (“EPS”) metering equipment described below will be procured, paid for, owned and installed inside the Station by TSP:

- i) one (1) 345 kV meter panel with one (1) primary meter and one (1) back up meter
- ii) six (6) 345 kV billing accuracy metering units comprised of individual potential transformers and current transformers. The metering will be a three-phase, four-wire system

6.2. The Supervisory Control and Data Acquisition (“SCADA”) equipment described below will be paid for, procured, owned, and installed inside the Substation by TSP:

- i) one (1) remote terminal unit (“RTU”), including associated interface equipment

6.3. The monitoring equipment described below will be paid for, procured, owned, and installed inside the Substation by TSP:

- i) station data repository (“SDR”), including associated interface equipment
- ii) disturbance monitoring equipment (“DME”), including associated interface equipment

6.4. Such facilities shall meet the following TSP requirements in addition to the ERCOT Requirements. If there is a conflict between the TSP requirements below and the ERCOT Requirements, the ERCOT Requirements shall prevail.

- i) The transfer of power between the TIF and GIF shall be read as if metered at the Point of Interconnection with bi-directional metering. Backfeed power from the TSP System to the Plant is “MW Out.” “MW Out” is considered positive and “MW In” is considered negative. The same conventions will be observed on the reactive power. Each of the four quantities will be recorded separately. Recording of Plant and GIF energy usage for the billing period will be determined by the EPS metering installed by TSP. For a Generator having more than one (1) Point of Interconnection (for example, two (2) or more lines), independent bi-directional metering is required at each Point of Interconnection.
- ii) Meters are required for net generation output, with the bi-directional feature used to measure station use auxiliaries when not exporting power. Unless used for the interconnection metering, all voltage and current transformers used for generation metering shall conform to relay accuracy class or better. MW and MVAR transducers shall be 3-element transducers with an accuracy of  $\pm 0.2\%$  or better.
- iii) If requested by Generator, and if available from the TSP RTU equipment, TSP will configure one (1) RTU communications port for the polling of metering quantities to be determined by mutual agreement. If such metering quantities are not available from TSP RTU equipment, they may be available by alternate means at Generator’s expense. If requested by Generator, MW and MVAR transducers shall be 3-element transducers with an accuracy of  $\pm 0.2\%$  or better.
- iv) Appropriate personnel of the Parties and ERCOT shall be involved in engineering changes of interconnect metering equipment from project inception. Representatives of the Parties and ERCOT must be notified so a mutually agreeable time can be set for the changes. Both Parties and ERCOT must be satisfied with the making of any changes.
- v) Metering and operation personnel of the Parties shall be notified at least forty-eight (48) hours in advance, or at a mutually acceptable advance notice, prior to any calibrations or maintenance. In emergency conditions, TSP may make necessary repairs with notification to affected parties within twenty-four (24) hours. Copies of the repair and calibration records shall be forwarded to the metering and operation personnel of the Parties.

## **7. Generator Interconnection Facilities:**

GIF include the following:

- i) the Substation and all facilities within it, except for those facilities identified as being owned by TSP in Section 6 above and Section 8 below
- ii) communication facilities described in Section 9.1 below

- iii) optical ground wire (“OPGW”) and a redundant fiber optic cable from the Substation to the Station, as referenced in Section 9.3(vii) below, including, for each fiber optic cable, the fiber distribution panel (“FDP”) in the Substation and the FDP in the Station
- iv) control building space to accommodate TSP’s panels for the RTU, SDR and DME to be installed inside the Substation
- v) the 345 kV transmission line, including structures, conductors, insulators and connecting hardware, from the Substation to the first dead-end structure outside the fence of the Station

## **8. Transmission Service Provider Interconnection Facilities:**

TIF are required to synchronize and deliver Plant capacity and energy output to the TSP System. TIF include the following:

- i) metering and SCADA equipment described in Sections 6.1 and 6.2 above, respectively
- ii) SDR and DME described in Section 6.3 above, to be installed inside the Substation
- iii) communication facilities described in Section 9.2 below
- iv) two (2) entrance ducts at the Station to accommodate two (2) fiber optic cables from the Substation
- v) control building space to accommodate Generator’s FDP’s at the Station
- vi) the 345 kV breakers, disconnect switches for the 345 kV terminal at the Station
- vii) the first dead-end structure outside the Station fence that terminates Generator’s 345 kV transmission line from the Substation
- viii) conductors from the Station to the first dead-end structure outside the Station fence
- ix) jumper conductors at the first dead-end structure outside the Station fence

## **9. Communications Facilities:**

9.1. The communications facilities described below will be paid for, owned, and installed by Generator.

- i) one (1) dedicated voice dispatch circuit between TSP’s Corpus Christi, TX dispatch office and Generator’s control center, including associated interface equipment at Generator’s control center
- ii) one (1) RTU communications circuit between the Substation and TSP’s master SCADA system at TSP’s Corpus Christi, TX dispatch office
- iii) one (1) telephone company interface box (demarcation equipment) at the Substation for demarcation of telephone company circuits
- iv) high voltage isolation equipment for all telephone company circuits at the Substation

9.2. The communications facilities described below will be paid for, owned, and installed by TSP if required by ERCOT.

- i) one (1) dial-up circuit including associated interface equipment at the location of the EPS meter facilities

9.3. All communication facilities shall meet the following TSP requirements in addition to ERCOT Requirements. If there is a conflict between the TSP requirements below and ERCOT Requirements, the ERCOT Requirements shall prevail.

- i) Generator shall be responsible for confirming with TSP the project-specific circuit requirements and requesting specific TSP addresses and TSP contact names in preparation for issuing communication circuit orders with TSP's telecommunication service provider of choice. These communication circuits shall be leased telephone company circuits satisfactory to TSP. For each telephone company circuit leased by Generator, Generator shall provide TSP and the telecommunication service provider with advanced authorization for communication circuit maintenance, allowing TSP and any of its affiliates and subsidiaries to monitor the circuit, report trouble and take corrective action with the telecommunication service provider, at Generator's expense, to maintain circuit reliability. The communication circuits described here shall be operational and commissioned by TSP prior to TSP placing the interconnection facility in service. Typical facility circuit requirements include the following:
  - 1) RTU communications circuit - This is a leased circuit from the demarcation equipment (the "demark") associated with the RTU at the Substation to the TSP dispatch office; this circuit is to be ordered and paid for by Generator. One (1) circuit is required for each RTU. This circuit will be utilized by TSP to communicate with the RTU and SDR, and if applicable, by ERCOT to communicate with the EPS metering. The required RTU communications circuit is a T1 (or another circuit as specified by TSP).
  - 2) Voice dispatch circuit - This is a leased circuit from the Plant operators to the TSP dispatch office. If the Plant operators are not located on the Plant site, then the circuit must be terminated at the actual location of the Plant operators. This dedicated circuit is required of Generator where the total Plant generation capacity is equal to or greater than 50 MVA. This circuit is to be ordered and paid for by Generator. Dispatch calls placed by the TSP dispatch office to Generator must be answered live and immediately by a Generator dispatcher twenty-four (24) hours per day and seven (7) days per week. Connections to the public telephone network do not meet the TSP requirement of a dedicated voice dispatch circuit; connections to the public telephone network include, but are not

limited to, a dial-up circuit (also known as a POTS line) and a toll-free telephone number. The required voice dispatch circuit is a T1 (or another circuit as specified by TSP).

- ii) For all telephone company circuits leased into the Substation, demarcation equipment (also referred to as the demark or telephone company interface box) satisfactory to TSP shall be installed, owned and maintained by Generator. The demark shall house all telephone company circuit termination equipment at the Substation, including, but not limited to, the network interface. The demark shall provide the interface between the telephone company's service cable and the Substation. Generator shall provide 120 VAC power to the demark sourced from an appropriately sized DC/AC inverter in the Substation control building. The DC/AC inverter shall be powered from a dedicated Substation DC breaker sourced from a minimum 8-hour Substation battery. The demark shall be located on the Substation ground grid and accessible outside the Substation fence or through a secured personnel gate or door. Generator shall install, own and maintain communications cable with surge protection satisfactory to TSP between the demark and the Substation control building. Telephone company personnel shall have no access to the control building housing the TSP RTU. The demark design shall accommodate twenty-four (24) hour per day accessibility by TSP personnel without escort from telephone company personnel, Generator, facility operator or landowners. The demark design shall accommodate twenty-four (24) hour per day accessibility by telephone company personnel without escort from TSP personnel, Generator, facility operator or landowners. Prior to construction of the demark, Generator is to submit its design to TSP for review and approval; such design is to include physical locations of the telephone company's service cable, Substation ground grid, demark mounting structure, Substation fence and Substation control building. The demark described here shall be operational and commissioned by TSP prior to TSP placing the interconnection facility in service.
- iii) High Voltage Isolation ("HVI") facilities at the Substation satisfactory to TSP shall be installed and maintained as described below. Such HVI facilities shall include either telephone company-installed all-dielectric fiber optic service cable installed to the demark through the ground potential rise ("GPR") high voltage zone of influence, or HVI equipment installed at the demark for all telephone company circuits carried on copper cable. Prior to construction of HVI facilities, Generator is to submit its design to TSP for review and approval; such design is to include physical locations of the telephone company's service cable, Substation ground grid, demark mounting structure, HVI facilities, Substation fence and Substation control building.

Option 1) All-dielectric fiber optic service cable - Generator shall cause the telephone company to install, own and maintain all-

dielectric fiber optic service cable to the demark located on the Substation ground grid. Armored fiber optic cable shall not be installed within the GPR high voltage zone of influence. Armored fiber optic cable shall be transitioned to all-dielectric fiber optic cable by the telephone company outside the GPR high voltage zone of influence. This all-dielectric fiber optic service cable is to extend from a location at or beyond the 300-volt point, through the GPR high voltage zone of influence, to the demark. The all-dielectric fiber optic service cable design (no metallic members such as protective armor sheath or trace wire) and its installation (no metallic members such as metal conduit, power cable, or wire) shall be satisfactory to TSP. The all-dielectric fiber optic service design shall accommodate twenty-four (24) hour per day accessibility by telephone company personnel without escort from TSP personnel, Generator, facility operator, or landowners.

Option 2) HVI equipment for copper cable - HVI equipment for all telephone company circuits carried on copper cable to the Substation demark shall be installed and maintained by Generator. The HVI equipment shall be designed to adequately protect against GPR and shall be satisfactory to TSP and the telephone company. The HVI equipment shall be located on the Substation ground grid and accessible outside the Substation fence or through a secured personnel gate or door. The HVI equipment shall be located on the central office (telephone company) side of the demark. The HVI equipment design shall accommodate twenty-four (24) hour per day accessibility by TSP personnel without escort from telephone company personnel, Generator, facility operator or landowners. The HVI equipment design shall accommodate twenty-four (24) hour per day accessibility by telephone company personnel without escort from TSP personnel, Generator, facility operator, or landowners.

The HVI facilities described above shall be operational and commissioned by TSP prior to TSP placing the interconnection facility in service.

- iv) Generator shall provide an access plan to TSP for review and approval. Such access plan is to document Generator, TSP and telephone company personnel access privileges and restrictions to interconnection facilities on Generator's property, including, but not limited to, the RTU, SDR, DME, metering equipment, telephone company interface box (demarcation equipment), high voltage isolation equipment and fiber optic equipment. The access plan described above shall be approved by TSP and implemented by Generator prior to TSP placing the interconnection facility in service.

- v) If the GIF include fiber optic cable, including, but not limited to OPGW, all-dielectric self-supporting (“ADSS”) cable and underground fiber optic cable, it shall be installed by Generator in accordance with TSP specifications. Generator shall, at its cost, engineer, furnish, and install at its Substation an all-dielectric fiber optic station entrance cable system to ensure that no fiber optic cable with metallic members is extended into the Substation control building. Fiber optic cable with metallic members includes, but is not limited to, OPGW, fiber optic cable with an integral trace wire, and metallic-armored fiber optic cable. The all-dielectric fiber optic station entrance cable system shall include all-dielectric fiber optic station entrance cable; the outdoor splice case, trays and fusion splice sleeves for the fiber optic cable to station entrance cable transition; the indoor splice housing, trays and fusion splice sleeves; fiber pigtails and the control building FDP. If the GIF include fiber optic cable that contains no metallic members, it may be extended into the Substation control building without transitioning to the all-dielectric fiber optic station entrance cable noted above. TSP shall, at Generator’s expense, engineer, furnish, and install at TSP’s Station the all-dielectric fiber optic station entrance cable system to be owned by Generator. To ensure integrity of the installed fiber optic facilities, Generator shall engage, at its expense, one entity, satisfactory to TSP, to perform splicing and testing of all fibers in each fiber optic cable, the transition splices and FDPs. Generator hereby grants to TSP, at no cost to TSP and for so long as this Agreement remains in effect, an indefeasible right to use the last twenty-four (24) fibers in each fiber optic cable. Generator, at its sole expense, will maintain in operating condition such fiber optic cable and associated station entrance cable systems at the Substation and TSP’s Station. In addition, Generator hereby grants to TSP the following rights:

- 1) the right to co-locate fiber optic equipment in the Substation
- 2) access to and use of all TSP-assigned fibers - FDP to FDP
- 3) access to and use of all route splice points, with the right to cross-connect TSP-assigned fibers for through circuits - FDP to FDP, and equipment to FDP
- 4) control building rack space for communications equipment
- 5) dedicated Substation DC breakers and cables sourced from a minimum 8-hour Substation battery
- 6) dedicated Substation 120 VAC breakers and cables upon request
- 7) access to the Substation for the installation and management of fiber jumpers and electronics

Each Party will be responsible for maintenance and repair of its facilities and equipment.

- vi) Fiber optic cable with metallic members shall not be terminated in or routed through the Substation control building, the telephone company

interface box (demarcation equipment), or the Substation's high voltage isolation enclosure. Fiber optic cable with metallic members includes, but is not limited to, OPGW, fiber optic cable with an integral trace wire, and metallic-armored fiber optic cable. Fiber optic cable with metallic members shall be transitioned to all-dielectric fiber optic cable, satisfactory to TSP, prior to the fiber entering the Substation control building, the telephone company interface box, or the Substation's high voltage isolation enclosure. The all-dielectric fiber optic cable design (no metallic members such as protective armor sheath or trace wire), the all-dielectric fiber optic cable installation (no metallic members such as metal conduit, power cable, or wire), and the transition splice shall be satisfactory to TSP.

- vii) TSP reserves the right to require two (2) fiber optic cables between TSP's Station and Generator's Substation along diverse routes satisfactory to TSP for redundancy purposes. TSP's preference for such diversely routed fiber optic cables is one (1) aerial cable (typically OPGW or conditionally ADSS) and one (1) underground cable; based upon the project configuration, other combinations of OPGW, ADSS and underground may be acceptable to TSP. For such diversely routed fiber optic cables, Generator shall install fiber optic cable satisfactory to TSP in the Generator's Substation between the diversely routed fiber optic cables, including TSP-assigned fibers (described in Section 9.3(v) above) and associated termination equipment, to provide TSP with fiber connectivity between the diversely routed fiber optic cables.

## **10. System Protection Equipment:**

Protection of each Party's system shall meet the following TSP requirements in addition to ERCOT Requirements. If there is a conflict between the TSP requirements below and ERCOT Requirements, the ERCOT Requirements shall prevail.

10.1. TSP assumes no responsibility for the protection of the Plant and GIF for any or all operating conditions. Generator is solely responsible for protecting its equipment in such a manner that faults or other disturbances on the TSP System or other interconnected systems do not cause damage to the Plant and GIF.

10.2. Generator shall procure, pay for, install and own the transmission line protection panels within the Substation.

10.3. It is the sole responsibility of Generator to protect its Plant and GIF from excessive negative sequence currents.

10.4. Generator shall furnish at a minimum, a manual disconnect switch with visual contacts and allowance for padlocking, to separate the Plant and GIF from TIF. The location of this switch will be determined by TSP, and be readily accessible to TSP at all

times. The disconnect switch will be under the exclusive control of TSP and will be considered as part of TSP's switching arrangement. TSP reserves the right to open this disconnecting device, isolating the Plant and GIF for any of the following reasons:

- 1) The Plant or GIF, upon TSP's determination, cause objectionable interference with other customers' service or with the secure operation of the TSP System.
- 2) The Plant output as determined by TSP exceeds the operating boundaries outlined above.
- 3) Generator's control and protective equipment causes or contributes to a hazardous condition. TSP reserves the right to verify on demand all protective equipment including relays, circuit breakers, etc. at the inter-tie location. Verification may include the tripping of the tiebreaker by the protective relays.
- 4) In TSP's opinion, continued parallel operation is hazardous to Generator, the TSP System or to the general public.
- 5) To provide TSP or TSP personnel the clearances for dead line or live line maintenance.

TSP will attempt to notify Generator before disconnection, but notification may not be possible in emergency situations that require immediate action.

10.5. Automatic reclosing is normally applied to transmission and distribution circuits. When TSP's source breakers trip and isolate the Plant and GIF, Generator shall insure the Plant and GIF are disconnected from the TSP circuit prior to automatic reclosure by TSP. Automatic reclosing out-of-phase with the Plant may cause damage to Generator's equipment. Generator is solely responsible for the protection of his equipment from automatic reclosing by TSP.

10.6. For disturbance monitoring of Generator's facilities, TSP requires a combination of SDR points and event recordings. SDR points are collected by TSP's SDR. Event recordings are to be supplied to TSP by Generator from Generator's equipment. An SDR and associated recording equipment will be paid for, owned and installed by TSP; installation shall be at either TSP's or Generator's facilities, as determined by TSP. If more than one (1) generation unit is connected to the low side of the step-up transformer or transmission line tied to TSP, the SDR and recording equipment will, at the discretion of TSP, be installed at the generation plant. Such TSP recording equipment, consisting of one (1) or more intelligent electronic devices ("IEDs"), monitors Generator's facilities and is polled by the SDR. For an SDR installed in Generator's facilities, Generator shall provide the cable and conduit for the SDR and the necessary connections to the recording equipment; TSP will terminate the signal connections in the SDR and recording equipment. A project-specific SDR points list will be developed by TSP based upon the project's electrical configuration. For such purpose, Generator shall be responsible for providing TSP with metering and relaying one-line diagrams of Generator's facilities. For thermal powered generation, Generator is required, upon TSP request, to provide event recordings per generation unit in a format satisfactory to TSP. For all other

generation, Generator is required, upon TSP request, to provide event recordings per collection feeder in a format satisfactory to TSP. All disturbance monitoring equipment shall be equipped for time synchronization. The monitoring requirements of TSP do not reduce Generator's obligation to meet all disturbance monitoring requirements of ERCOT.

10.7. Documentation of all protective device settings shall be provided to TSP. The setting documentation shall also include relay type, model/catalog number, and setting range. If automatic transfer schemes or unique or special protective schemes are used, a description of their operation should be included. TSP must review and approve the settings of all protective devices and automatic control equipment which: 1) serve to protect the TSP System from hazardous currents and voltages originating from the Plant or 2) must coordinate with System Protection Equipment or control equipment located on the TSP System.

## **11. RTU and SCADA Inputs:**

11.1. A transmission-specific RTU is required for all transmission interconnections. In addition, a generation-specific RTU is required for TSP's generation-specific SCADA. Generator shall marshal all their RS-485 and hardwired RTU inputs at a marshalling cabinet (interface terminal block or interface cabinet) satisfactory to TSP. Generator shall engineer, procure, construct and own the marshalling cabinet, wire to the marshalling cabinet from the various generation or Substation equipment, provide TSP with documentation identifying the location of generation or Substation SCADA points wired to the marshalling cabinet, and provide TSP with terminals at the marshalling cabinet from which to wire to the RTU. Generator shall provide a dedicated Substation DC breaker and cable sourced from a minimum 8-hour Substation battery for each RTU located at Generator's facilities.

11.2. Prior to TSP placing the Plant or GIF in service, the transmission-specific RTU and the generation-specific RTU described here shall be operational with TSP-required RTU functions commissioned by TSP.

11.3. In addition to ERCOT Requirements, the following information shall be supplied to TSP by Generator, regardless of the size of the Substation capacity, for each Point of Interconnection and connected to TSP's recording equipment and the transmission-specific RTU used for the transmission interconnection. If there is a conflict between the TSP requirements below and ERCOT Requirements, the ERCOT Requirements shall prevail. Inputs to the transmission-specific RTU shall be supplied from a TSP-approved interface device or hardwired. RTU inputs from a TSP-approved interface device shall be RS-232 (with optical isolation) or RS-485 using DNP 3.0 protocol.

### **i) Status Points**

- 1) Transmission line breaker status (required for each Generator-owned transmission line)

- 2) Transmission line lockout relay operated (required for each Generator-owned transmission line)
  - 3) Transmission line lockout relay failure (required for each Generator-owned transmission line)
  - 4) IED communications failure (required for each IED sourcing a required point)
  - 5) Battery charger trouble (required for the Substation battery powering the RTU)
  - 6) Battery charger AC power failure (required for the Substation battery powering the RTU)
  - 7) Smoke alarm (required for the structure housing the RTU)
  - 8) Fire or high temperature alarm (required for the structure housing the RTU)
- ii) Analog Points from each Generator-owned transmission line shall include MW, MVAR, MVA, HZ, distance-to-fault, voltage per phase and current per phase. Analog Points from each Generator-owned transmission line breaker shall include current per phase.
- iii) Hourly Accumulation Points from each Generator-owned transmission line shall include MWh In, MWh Out, MVARh In, and MVARh Out.

11.4. For plants where the total generation capacity is equal to or greater than 5 MVA, a generation-specific RTU is required at the Plant or GIF for TSP's generation-specific SCADA. A specific RTU points list will be developed by TSP as a part of each generation project based upon the project's electrical configuration. For such purpose, Generator shall be responsible for providing TSP with metering and relaying one-line diagrams of the generation and Substation facilities. Generator shall provide TSP with a station communications drawing which is to include RTU point sources (IEDs and contacts supplying required data), interface devices, and connections to the RTU. The following points list is a comprehensive list that is not intended to be the final point list that will be designed by TSP for the Plant:

- i) Control Points – The following RTU inputs shall be hardwired.
- 1) Trip (required for one (1) or more breakers, that is, TSP-approved load-break devices, to provide TSP with the ability to trip all generation units during system emergencies)
- ii) Status Points – Status inputs to the generation-specific RTU shall be supplied from a TSP-approved interface device or hardwired as specified below. Status point RTU inputs from a TSP-approved interface device shall be RS-232 (with optical isolation) or RS-485 using DNP 3.0 protocol.
- 1) Generation breaker status (hardwired for each breaker where trip control is required)

- 2) Circuit switcher / line switch status (“a” and “b” contacts)
  - 3) Transformer high-side breaker status (hardwired for each breaker where trip control is required)
  - 4) Transformer high-side motor operated switch status (“a” and “b” contacts)
  - 5) Auxiliary breaker status
  - 6) Collection feeder breaker status
  - 7) Tie breaker status
  - 8) Dynamic reactive controller (off/on)
  - 9) Dynamic reactive controller (manual/auto)
  - 10) Dynamic reactive controller (voltage/power factor)
  - 11) Shunt device (capacitor and reactor) breaker/switch status
  - 12) Supervisory cutoff (hardwired for each breaker where trip control is required)
  - 13) Breaker failure lockout status (hardwired for each breaker where trip control is required)
  - 14) Breaker critical alarm (required for each breaker where trip control is required, combine critical alarms for each breaker)
  - 15) Transformer critical alarm (combine critical alarms for each transformer)
  - 16) Transformer primary lockout relay operated
  - 17) Transformer primary lockout relay failure
  - 18) Transformer backup lockout relay operated
  - 19) Transformer backup lockout relay failure
  - 20) Generation unit automatic voltage regulator (“AVR”) status
  - 21) Black start availability
- iii) Analog Points – Analog inputs to the generation-specific RTU shall be supplied from a TSP-approved interface device or hardwired. Analog point RTU inputs from a TSP-approved interface device shall be RS-232 (with optical isolation) or RS-485 using DNP 3.0 protocol.
- 1) Generation gross MW (required for each thermal-powered generation unit)
  - 2) Generation gross MVAR (bi-directional values required for each thermal-powered generation unit)
  - 3) Generation station use MW auxiliary (required for each auxiliary transformer)
  - 4) Generation station use MVAR auxiliary (bi-directional values required for each auxiliary transformer)
  - 5) Station frequency HZ (for those stations where a common bus does not exist between multiple generation units, individual unit frequency points will be required)
  - 6) Voltage per phase for each winding of each transformer
  - 7) Current per phase for each winding of each transformer
  - 8) MW for each winding of each transformer
  - 9) MVAR for each winding of each transformer (bi-directional values required)

- 10) MW for each circuit breaker/switcher in the station
- 11) MVAR for each circuit breaker/switcher in the station (bi-directional values required)
- 12) MW for each collection feeder
- 13) MVAR for each collection feeder (bi-directional values required)
- 14) Voltage per phase of each collection feeder
- 15) Voltage per phase of each shunt device (capacitor and reactor)
- 16) MVAR for each shunt device (capacitor and reactor) (bi-directional values required)
- 17) Tap position for each power transformer
- 18) Dynamic MVAR capability at the current MW generation amount (required for each dynamic reactive controller)
- 19) Voltage set point for each dynamic reactive controller
- 20) Power factor set point for each dynamic reactive controller

## **12. Supplemental Terms and Conditions:**

The following supplemental terms and conditions shall be met unless there is a conflict between these terms and conditions and ERCOT Requirements, in which case the ERCOT Requirements shall prevail. Such ERCOT Requirements include, but are not limited to, ERCOT Nodal Protocols sections 1.3.1, 3.15, 8.1.1, and 12.2; ERCOT Nodal Operating Guides sections 2.2.5, 2.2.6, 2.7, 2.9.1 and 6.2.2; and the ERCOT Operating Procedures.

12.1. Each Party shall be consulted during the planning and design process of the Plant, GIF, and TIF. The engineering and design work (including drawings, plans, materials lists, specifications and other documentation and supporting data) will be prepared in accordance with Good Utility Practice and all applicable laws and regulations, and is intended to be used solely in connection with the construction of the Plant, GIF and TIF. Neither Party shall make use of any aspect of the engineering and design work of the other Party for any other projects without the prior written consent of the other Party. Each Party shall treat such engineering and design work of the other Party as Confidential Information under Section 10.21 of Exhibit "A".

12.2. TSP shall provide to Generator monthly progress reports on the status of the Work. TSP shall be available for status meetings with Generator and its designees, which meetings will provide a detailed description of the progress of the Work, identify any problems and a plan to solve the problems and provide such other information as is reasonably requested by Generator. Such meetings shall take place at the offices of TSP in Tulsa, Oklahoma, at the Plant site, or at other mutually agreeable locations.

12.3. If wye-delta connected transmission voltage step-up transformers are utilized they shall be wye connected to the TIF and delta connected to the GIF.

12.4. Generator shall submit drawings of the GIF to TSP for review. TSP will review only those portions of the drawings that affect the TSP System. Any changes required by

TSP shall be made prior to final issue of drawings and TSP shall be provided with final copies of the revised drawings. TSP will review only those portions of the drawings, which apply to protection, metering and monitoring of the TSP System. To aid Generator, TSP may make suggestions on other areas. TSP's review of Generator's drawings shall not be construed as confirming or endorsing the design or as any warranty of safety, durability, or reliability of the facility or equipment. Generator shall provide copies of the following:

- i) one-line and three-line diagrams indicating the following:
  - 1) equipment names and/or numerical designations for all circuit breakers, contactors, air switches, transformers, generators, etc., associated with the generation as required by TSP to facilitate switching
  - 2) power transformers – nameplate or designation, nominal kVA, nominal primary, secondary, tertiary voltages, vector diagram showing winding connections, tap setting and transformer impedances (transformer test report showing the positive sequence, zero sequence, test voltages and MVA base for each winding)
  - 3) station service transformers – phase(s) connected and estimated kVA load
  - 4) instrument transformers – voltage and current, phase connections
  - 5) surge arresters/gas tubes/metal oxide varistors/avalanche diode/spill gaps/surge capacitors, etc. – type and ratings
  - 6) capacitor banks – kVAR rating and reactive (static and dynamic) device operation capability
  - 7) reactive device capability (required for wind generation only) – kVAR rating and reactive device operation capability for static and dynamic devices for each generation collection feeder
  - 8) disconnect switches – status if normally open (N.O.), manual or motor operated including switch voltage, continuous and interrupting ratings
  - 9) circuit breakers and/or contactors – interrupting rating, continuous rating, operating times
  - 10) generator(s) – nameplate, test report, type, connection, kVA, voltage, current, rpm, power factor, impedances, time constants, etc.
  - 11) Point of Interconnection and phase identification
  - 12) fuses – manufacturer, type, size, speed, and location
  - 13) transmission structure geometry (phase-to-phase, phase-to-ground, and shield-to-phase), phase conductor data, shield wire data, transmission line ratings, positive and zero sequence impedances and mileage
- ii) potential and current elementary drawings associated with the protection and control schemes for the Plant and GIF and control elementary drawings of the Plant and interconnection circuit breaker indicating the following:

- 1) terminal designation of all devices – relay coils and contacts, switches, transducers, etc.
- 2) relay functional designation – per latest ANSI Standard where the same functional designation shall be used on all drawings showing the relay
- 3) complete relay type (such as CV-2, SEL321-1, REL-301, IJS51A, etc.)
- 4) switch contact as referenced to the switch development if development is shown on a separate drawing
- 5) switch developments and escutcheons where the majority of contacts are used. Where contacts of a switch are used on a separate drawing, that drawing should be referenced adjacent to the contacts in the switch development. Any contacts not used should be referenced as spare.
- 6) all switch contacts shown open with each labeled to indicate the positions in which the contact will be closed with explanatory notes defining switch coordination and adjustment where mis-adjustment could result in equipment failure or safety hazard
- 7) auxiliary relay contacts as referenced to the coil location drawing if coil is shown on a separate drawing where all contacts of auxiliary relays should be shown and the appropriate drawing referenced adjacent to the respective contacts
- 8) device auxiliary switches (circuit breakers, contactor) as referenced to the drawing where they are used.
- 9) any interlocks - electromechanical, key, etc., associated with the generation or interconnection Substation
- 10) ranges of all timers and setting if dictated by control logic
- 11) all target ratings; on dual ratings note the appropriate target tap setting
- 12) complete internal for electromechanical protective relays where microprocessor type relays may be shown as a “black box”, with manufacturer’s instruction book number referenced and terminal connections shown
- 13) isolation points (states links, PK-2 and FT-1 blocks), etc., including terminal identification
- 14) all circuit elements and components, with device designation, rating and setting where applicable and where coil voltage is shown only if different from nominal control voltage
- 15) size, type, rating and designation of all fuses
- 16) phase sequence designation as ABC or CBA
- 17) potential transformers – nameplate ratio, polarity marks, rating, primary and secondary connections
- 18) current transformers (including aux. CT’s) – polarity marks, rating, tap ratio and connection

12.5. Generator may not commence parallel operation of the Plant until consent has been given by TSP. TSP reserves the right to inspect the GIF and witness testing of any equipment or devices associated with the Point of Interconnection.

12.6. The Plant and GIF shall not cause objectionable interference with the electric service provided to other customers of TSP nor jeopardize the security of the ERCOT power system. In order to minimize objectionable interference of the Plant and GIF, the Plant and GIF shall meet the following criteria:

- i) Voltage - The Plant and GIF shall not cause excessive voltage excursions. Generator shall operate its Plant and GIF in such manner that the voltage levels on the TSP System are in the same range as if the Plant and GIF were not connected to the TSP System. Generator shall provide an automatic method of disconnecting its Plant and GIF from the TIF to protect against excessive voltage excursions.
- ii) Flicker - The Plant and GIF shall not cause excessive voltage flicker on the TSP System. Flicker is to be measured at the Point of Interconnection and shall not exceed 1.5% or the Borderline of Visibility Curve Voltage Flicker Chart of ANSI/IEEE Standard 141-1993, whichever is less.
- iii) Frequency – The operating frequency of the Plant shall not deviate from the frequency of the TSP System. Plant under-frequency relays shall be set the same as TSP's under-frequency relays, so that the Plant will not separate from the TSP System during under-frequency conditions until all TSP under-frequency load shedding equipment has operated. Generator will provide applicable settings to TSP prior to Commercial Operation.
- iv) Harmonics, Telephone Interference, and Carrier Interference - The Plant and GIF shall not introduce excessive distortion of the TSP System waveforms; voltage and current; telephone interference; or carrier interference at the Point of Interconnection. IEEE Standard 519 shall be used as a guide.
- v) Fault and Line Clearing - The Plant and GIF shall be disconnected from the TSP System on occurrence of an outage or fault on the TIF serving the Plant radially. Generator is responsible for the electrical stability of its Plant and providing adequate facilities so that critical fault clearing times are met.
- vi) All generation resources (including self-serve generating units) that have a gross generating unit rating greater than twenty (20) MVA or those units connected at the same Point of Interconnection that have gross generating unit ratings aggregating to greater than twenty (20) MVA, that supply power to the ERCOT transmission grid, shall provide Voltage Support Service (VSS).
- vii) Reactive Power Requirements – Generation resources must be capable of producing a defined quantity of reactive power to maintain a Voltage Profile established by ERCOT Nodal Protocol 3.15. The generator voltage-var schedule, voltage regulator, and transformer ratio settings will be jointly determined by TSP and Generator to ensure proper coordination of voltages and regulator action. The Plant must generate reactive

requirements for the Plant and GIF. TSP may, in order to maintain security of the ERCOT power system, request Generator to adjust voltage schedule to accept or supply reactive power.

1. Synchronous generators shall comply with the following reactive power requirements: an over-excited (lagging) power factor capability of ninety-five hundredths (0.95) or less and an under-excited (leading) power factor capability of ninety-five hundredths (0.95) or less, both determined at the generating unit's maximum net power to be supplied to the ERCOT transmission grid and at the transmission system Voltage Profile established by ERCOT, and both measured at the Point of Interconnection. The reactive power requirements shall be available at all MW output levels.
2. Induction generators shall comply with the following reactive power requirements: an over-excited (lagging) power factor capability of ninety-five hundredths (0.95) or less and an under-excited (leading) power factor capability of ninety-five hundredths (0.95) or less, both determined at the generating unit's maximum net power to be supplied to the ERCOT transmission grid and at the transmission system Voltage Profile established by ERCOT, and both measured at the Point of Interconnection. The reactive power requirements shall be available at all MW output levels and may be met through a combination of the Generation Resource's Unit Reactive Limit ("URL"), which is the generating unit's dynamic leading and lagging operating capability, and/or dynamic VAR capable devices. For Wind Generation Resources ("WGR"), the reactive power requirements shall be available at all MW output levels at or above ten percent (10%) of the WGR's nameplate capacity. When a WGR is operating below ten percent (10%) of its nameplate capacity and is unable to support voltage at the Point of Interconnection, ERCOT may require a WGR to disconnect from the ERCOT transmission grid.
3. Other generators shall comply with the following reactive power requirements: an over-excited (lagging) power factor capability of ninety-five hundredths (0.95) or less and an under-excited (leading) power factor capability of ninety-five hundredths (0.95) or less, both determined at the generating unit's maximum net power to be supplied to the ERCOT transmission grid and at the transmission system Voltage Profile established by ERCOT, and both measured at the Point of Interconnection. The reactive power requirements shall be available at all MW output levels and may be met through a combination of the Generation Resource's URL, which is the generating unit's dynamic leading and lagging operating capability, and/or dynamic VAR capable devices. For Intermittent Renewable Resources ("IRR"), the reactive power

requirements shall be available at all MW output levels at or above ten percent (10%) of the IRR's nameplate capacity. When an IRR is operating below ten percent (10%) of its nameplate capacity and is unable to support voltage at the Point of Interconnection, ERCOT may require an IRR to disconnect from the ERCOT transmission grid.

- viii) The dynamic MVAR capability at the current MW generation amount shall be provided in real time. If this dynamic MVAR capability is not available in real time, a dynamic capability curve plotted as a function of MW output shall be provided. The shunt static reactive available, but not in service, shall be provided in sufficient detail to determine the amount of dynamic and static reactive reserve available.
- ix) Excitation System and Automatic Voltage Regulation – A Plant excitation system response ratio shall not be less than 0.5 (five-tenths). It shall conform, as near as achievable, to the field voltage vs. time criteria specified in American National Standards Institute Standard C50.13-1989 in order to permit adequate field forcing during transient conditions. A power system stabilizer (“PSS”) shall be installed on each new generating unit to be interconnected unless specifically exempted from this requirement by ERCOT. Generator shall determine the PSS settings to dampen local area modes with oscillations within the range of 0.2 Hz to 2 Hz. The PSS settings shall be tested and tuned for adequate damping during PSS commissioning. Final PSS settings shall be provided to ERCOT and TSP within thirty (30) days of commissioning. The PSS shall be kept in service and maintained in working order throughout the service life of the Plant. The PSS requirement is not applicable to asynchronous resources including photovoltaic solar and wind generation facilities. Each generator's exciter and exciter controls shall have a ride-through capability for significant system voltage disturbances (i.e., utilize UPS or DC design). Generator shall maintain the AVR of each generating unit in service and operable at all times. If the AVR is removed from service for maintenance or repair, TSP shall be notified.
- x) Governor System – Plant governors shall be able to respond to interconnection frequency deviations and help return interconnection frequency to normal following an upset on the ERCOT transmission grid to assist in maintaining interconnection stability.

12.7. Generator shall not energize a de-energized TIF circuit, unless under direction of TSP. The line switch will have dual locks to allow Generator and TSP to lock it for clearances.

12.8. Generator shall maintain an operating log at each generating unit at the Plant that, at a minimum, will indicate changes in operating status (available or unavailable), maintenance outages, trip indications, or other unusual conditions found upon inspection. For generators that are “block-loaded” to a specific MW level, changes in this setting

shall also be logged. TSP may waive this requirement at its discretion. Reliability information, as required by ERCOT Requirements, will be maintained by Generator.

12.9. TSP considers the energy and power that the Plant and GIF may from time to time consume from the transmission grid through the Point of Interconnection to be a retail transaction and as such, TSP does not intend to be the provider of this retail service. Generator shall make necessary arrangements with the appropriate retail supplier for the energy and power that the Plant and GIF may consume from the transmission grid through the Point of Interconnection.

12.10. Generator shall notify TSP in writing as to which initial ERCOT Qualified Scheduling Entity the Plant will be scheduling through and any changes made thereafter.

12.11. Upon written request from TSP, Generator shall supply notification to TSP identifying their retail service provider.

12.12. Generator shall use commercially reasonable efforts to change the GIF as may be reasonably required by TSP to meet future changes in the TSP System. Generator shall be given reasonable notice by TSP prior to the date that any such required change in the GIF must be made.

12.13. If this Agreement has been executed prior to ERCOT's approval of the completed Full Interconnection Study, then upon the required ERCOT approval, TSP will establish a new schedule for completion of the TIF if necessary, and the In-Service Date, Scheduled Trial Operation Date and Scheduled Commercial Operation Date shall be adjusted accordingly. TSP may, by written notice to Generator, require Generator to execute an amendment to this Agreement to reflect the effect of that Full Interconnection Study and the ERCOT approval on the i) Time Schedule set forth in this Exhibit "B"; ii) the Interconnection Details set forth in Exhibit "C"; and/or iii) the Security Arrangement Details set forth in Exhibit "E". Generator's failure to execute such an amendment within thirty (30) days of receipt of written notice from TSP shall constitute a Default, and in that event, TSP shall have all the rights and remedies set forth in Section 10.6 of Exhibit "A" to this Agreement.

12.14. Each Party will comply with NERC Reliability Standards applicable to its facilities identified in this Exhibit "C". Each Party shall provide to the other Party all information related to its interconnection facilities that may reasonably be required by the other Party to comply with NERC Reliability Standards applicable to its interconnection facilities, if any. "NERC Reliability Standards" means the mandatory electric reliability standards established and enforced by the North American Electric Reliability Corporation or its successor electric reliability organization.

12.15. Generator shall construct the GIF in accordance with TSP's "Requirements for Connection of New Facilities or Changes to Existing Facilities Connected to the AEP Transmission System" (or its successor) in effect at the time Generator provides authorization to commence construction per Exhibit "B" above. If Generator materially

modifies the GIF, Generator shall comply with TSP's "Requirements for Connection of New Facilities or Changes to Existing Facilities Connected to the AEP Transmission System" (or its successor) in effect at the time of such modifications. Where the "Requirements for Connection of New Facilities or Changes to Existing Facilities Connected to the AEP Transmission System" are in conflict with this Agreement, this Agreement shall prevail.

12.16. Generator shall provide information in accordance with TSP's "Data and Modeling Requirements for Conventional Resource Entities" or "Data and Modeling Requirements for Solar and Wind Resource Entities" as applicable (or its successor) in effect at the time Generator provides authorization to commence construction per Exhibit "B" above. If Generator materially modifies the GIF, Generator shall provide TSP the modified GIF information in accordance with TSP's "Data and Modeling Requirements for Conventional Resource Entities" or "Data and Modeling Requirements for Solar and Wind Resource Entities" as applicable (or its successor) in effect at the time of such modifications.

### **13. Special Operating Terms and Conditions:**

13.1. For thermal powered generation, a Generator not qualified by ERCOT as a Quick Start Generation Resource ("QSGR"), will provide TSP at least thirty (30) minutes prior notice before coming on-line or off-line so TSP can adjust reactive resources. For thermal powered generation, a Generator qualified as a QSGR, will provide TSP at least ten (10) minutes prior notice before coming on-line or off-line so TSP can adjust reactive resources.

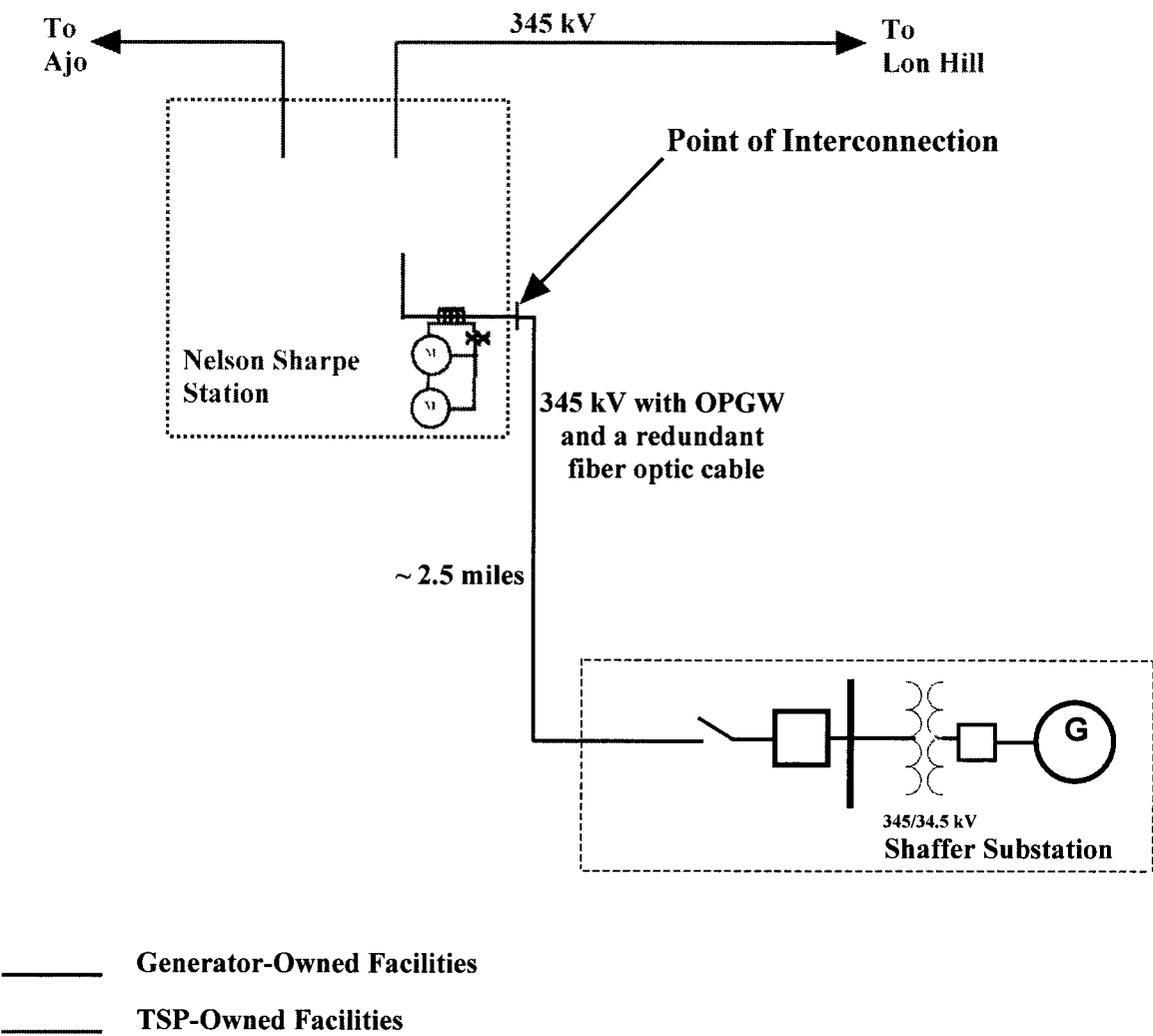
13.2. For wind powered generation greater than 50 MW, Generator shall notify TSP at least thirty (30) minutes in advance anytime the reactive capability is expected to deviate by more than 10% from the reactive capability curves provided in accordance with Section 12.6(viii) above or any time Generator expects generation rate changes greater than 20% per minute of the Plant's nameplate MW rating.

13.3. For solar powered generation greater than 10 MW, Generator shall notify TSP at least thirty (30) minutes in advance anytime the reactive capability is expected to deviate by more than 10% from the reactive capability curves provided in accordance with Section 12.6(viii) above; TSP will coordinate the deviation in entire-site reactive disconnections of fifteen (15) minutes between solar farms in the same area, if any, for daily planned disconnections.

13.4 For battery storage resources greater than 5 MW, in addition to Generator's obligations set forth in Section 11 of Exhibit "C" to this Agreement, Generator shall supply to TSP information including, but not limited to, the following: i) indication of battery charging and discharging conditions; ii) battery charge available; iii) time remaining at the present discharge rate; iv) maximum available power; v) voltage regulation set point; and vi) battery AVR status. Generator shall supply such information to TSP in a format satisfactory to TSP.

EXHIBIT “C-1”

Conceptual One-Line Drawing of Point of Interconnection



Distances as shown are conceptual and not to scale;  
stations not shown completely.

**EXHIBIT “D”****NOTICE INFORMATION  
OF THE INTERCONNECTION AGREEMENT**

(a) All notices of an operational nature shall be in writing and/or may be sent between the Parties via electronic means including facsimile as follows:

	If to Generator:	If to Transmission Service Provider:
Company Name:	Patriot Wind Farm, LLC	AEP Texas Inc. c/o American Electric Power Service Corporation
Attn:	NRG Control Center	Manager, Transmission Operations Reliability
Address:	4900 N. Scottsdale Road, Suite 5000	5502 Corporate Dr.
City, State, Zip:	Scottsdale, AZ 85251	Corpus Christi, TX 78405
24 Hour Phone:	480-424-1680	361-289-4003
E-mail:	RenewAORReal-Time@nrg.com	dkkunkel@aep.com
Copy:		
Company Name:		AEP Texas Inc. c/o American Electric Power Service Corporation
Attn:		Manager, Transmission Dispatching
Address:		5502 Corporate Dr.
City, State, Zip:		Corpus Christi, TX 78405
24 Hour Phone:		361-289-4006
E-mail:		Llrodriguez2@aep.com

(b) Notices of an administrative nature:

	If to Generator:	If to Transmission Service Provider:
Company Name:	Patriot Wind Farm, LLC	AEP Texas Inc. c/o American Electric Power Service Corporation
Attn:		Director, System Interconnections
Address:	4900 N. Scottsdale Road, Suite 5000	212 E. 6th Street
City, State, Zip:	Scottsdale, AZ 85251	Tulsa, OK 74119
Fax:		918-599-3003
Phone:		918-599-2723
E-mail:		rlpennybaker@aep.com

Copy:		
Company Name:	Patriot Wind Farm, LLC	
Attn:	Christopher Barker	
Address:	100 California Street, Suite 400	
City, State, Zip:	San Francisco, CA 94111	
Fax:		
Phone:	415-627-1635	
E-mail:	Chris.Barker@nrg.com	

## (c) Notice for statement and billing purposes:

	If to Generator:	If to Transmission Service Provider:
Company Name:	Patriot Wind Farm, LLC	AEP Texas Inc. c/o American Electric Power Service Corporation
Attn:		Accounts Receivable
Address:		301 Cleveland Ave SW
City, State, Zip:		Canton, OH 44702

## (d) Information concerning Electronic Funds Transfers:

	If to Generator:	If to Transmission Service Provider:
Bank Name:	Citibank N.A.	Citibank, N. A.
Address:	1 Penns Way	111 Wall Street
City, State:	New Castle, DE 19720	New York, NY 10043
ABA No.	031100209	021000089
for credit to	NRG Renew LLC	AEP Texas Inc.
Account No.	38891478	30484552

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## EXHIBIT "E"

### SECURITY ARRANGEMENT DETAILS

1. As a condition to TSP's obligation to plan, license, engineer, design, procure equipment and materials, and construct the TIF described in Section 8 of Exhibit "C", Generator did provide financial security ("Security") in the amount of Three Million Five Hundred Eighty-nine Thousand Dollars (\$3,589,000), in the form of a letter of credit ("LC") as required pursuant to Section 8.3 of the Original Agreement. Pursuant to Section 4 of the Third Amended and Restated Agreement, TSP determined that Security above does not adequately cover the costs of TSP's obligation for the TIF, and Generator shall augment the Security by the amount of Six Hundred Thousand Dollars (\$600,000) by amending the existing letter of credit or posting one (1) or more LC's, corporate guaranty or other form of collateral security reasonably acceptable to TSP. The aggregated amount of Security will be Four Million One Hundred Eighty-nine Thousand Dollars (\$4,189,000). Such additional Security shall be provided within ten (10) business days after receipt of written notice from TSP that TSP has executed this Agreement.
2. Depending upon the creditworthiness of the proposed guarantor, a corporate guaranty may or may not be acceptable Security. If Generator chooses to provide a corporate guaranty, it shall provide any financial reports requested by TSP upon execution of this Agreement. If the creditworthiness of the proposed guarantor is acceptable to TSP, the corporate guaranty shall be in a form similar to that shown in Exhibit "E-1" or, if in a form not similar to that shown in Exhibit "E-1" in a form acceptable to TSP. Generator shall provide annual audited financial statements of the guarantor for so long as the guaranty is in effect. In addition, Generator agrees to provide financial information concerning the guarantor as may be requested from time to time by TSP.
3. LC means one (1) or more irrevocable, transferable standby letters of credit issued by a U.S. commercial bank or a foreign bank with a U.S. branch that has a credit rating of at least A- from Standard and Poor's or an A3 credit rating from Moody's Investors Services. The LC will be maintained with a bank having such credit rating for the entire period that the LC is in effect. TSP reserves the right to request multiple LC providers, depending on the amount of security required. The LC shall be in a form substantially similar to that shown in Exhibit "E-2" or, if not in a form similar to that shown in Exhibit "E-2," in a form acceptable to TSP. Such LC shall state that it is issued in favor of TSP and specify as its expiry date the date that follows the Commercial Operation Date indicated in Exhibit "B" by one (1) year. Costs of the LC shall be borne by the Generator.
4. TSP may by written notice to Generator require Generator to increase, replenish, or replace the Security from time to time i) if TSP determines in its reasonable discretion that the remaining Security is not adequate to cover the costs that TSP then reasonably estimates could become payable pursuant to this Agreement, ii) in the case of a letter of credit, if at any time the bank issuing the letter of credit no longer meets the criteria set forth in Section 3 above, or iii) in the case of a guaranty, if at any time the creditworthiness of the guarantor is no longer reasonably acceptable to TSP. Generator will tender any such increase, replenishment, or

replacement to TSP within thirty (30) days of such notice. No forbearance or delay on the part of TSP in requiring an increase, replenishment, or replacement of the Security will be a waiver of its right to do so.

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## EXHIBIT "E-1"

### FORM OF CORPORATE GUARANTY

#### GUARANTY

TO: **AEP Texas Inc.** and its successors and assigns (collectively "Beneficiary")

FOR GOOD AND VALUABLE CONSIDERATION, the receipt and sufficiency of which are hereby acknowledged, and to induce Beneficiary to enter into a Standard Generation Interconnection Agreement dated as of \_\_\_\_\_, as the same may be amended from time to time (the "Agreement"), with [*Generator name*], a \_\_\_\_\_ ("Debtor"), the undersigned \_\_\_\_\_, a \_\_\_\_\_ ("Guarantor"), hereby irrevocably and unconditionally guarantees the due punctual and full payment of any and all obligations of the Debtor to the Beneficiary now or hereafter due pursuant to the Agreement or pursuant to applicable law in connection with the activities of the parties under the Agreement (the "Guaranteed Obligations"). Upon any failure by the Debtor to pay any of the Guaranteed Obligations, the Guarantor agrees that it will forthwith on demand pay any amounts which the Debtor has failed to pay the Beneficiary, at the place and in the manner specified in the Agreement. This Guaranty is a guaranty of payment and not merely a guaranty of collection. The Guarantor agrees that the Beneficiary may resort to the Guarantor for payment of any of the Guaranteed Obligations, whether or not the Beneficiary shall have resorted to any collateral security, or shall have proceeded against any other obligor principally or secondarily obligated with respect to any of the Guaranteed Obligations. Guarantor reserves the right to assert defenses which the Debtor may have to payment of any Guaranteed Obligations other than defenses based on lack of capacity, lack of authorization, lack of due execution, illegality, or limitations of actions, or arising from the bankruptcy, insolvency, or similar proceeding of the Debtor and other defenses expressly waived hereby.

The Guarantor agrees that, in the event of the dissolution or bankruptcy of the Debtor, if such event shall occur at a time when any of the Guaranteed Obligations may not then be due and payable, the Guarantor will pay the Beneficiary forthwith the full amount which would be payable hereunder by the Guarantor if all such Guaranteed Obligations were then due and payable and in default.

The obligations of the Guarantor hereunder shall be unconditional and absolute and, without limiting the generality of the foregoing, shall not be released, discharged or otherwise affected by:

(A) any extension, renewal, settlement, compromise, waiver, discharge, or release in respect of any Guaranteed Obligations of the Debtor;

(B) the existence, or extent of, any release, exchange, surrender, non-perfection, or invalidity of any direct or indirect security for any of the Guaranteed Obligations;

(C) any modification, amendment, waiver, extension of or supplement to the Agreement or any of the Guaranteed Obligations agreed to from time to time by the Debtor and the Beneficiary;

(D) any change in the corporate existence (including its constitution, laws, rules, regulations or powers), structure or ownership of the Debtor or the Guarantor, or any insolvency, bankruptcy, reorganization or other similar proceeding affecting the Debtor or its assets, the Guarantor or any other guarantor of any of the Guaranteed Obligations;

(E) the existence of any claim, set-off, or other rights which the Guarantor may have at any time against the Debtor, the Beneficiary, or any other corporation or person, whether in connection herewith or in connection with any related or unrelated transaction; provided that nothing herein shall prevent the assertion of any such claim by separate suit or compulsory counterclaim if such claim, set off, or other right arose in connection with the Guaranteed Obligations.

(F) except as to applicable statutes of limitation, failure, omission, delay, waiver or refusal by Beneficiary to exercise, in whole or in part, any right or remedy held by Beneficiary with respect to the Agreement or any transaction under the Agreement; or

(G) any other circumstance that might otherwise constitute a defense available to, or a discharge of, any Debtor or any other individual, partnership, joint venture, corporation, association, trust or other enterprise that is a party to the Agreement, or any other agreement or instrument (including any guarantor) in respect of the Guaranteed Obligations, other than payment in full of the Guaranteed Obligations.

This Guaranty shall remain in full force and effect until the date on which the Debtor is entitled by the Agreement to a release of its Security provided thereunder. Such termination shall not release Guarantor from liability for any Guaranteed Obligations arising prior to the effective date of such termination (even if the amount of such Guaranteed Obligations is not then fully determined). If at any time any payment of any of the Guaranteed Obligations is rescinded or must be otherwise restored or returned upon the insolvency, bankruptcy, or reorganization of the Debtor, the Guarantor's obligations hereunder with respect to such payment shall be reinstated at such time as though such payment had not been made. If Debtor's assets or a major portion thereof are transferred to any other party or parties otherwise than by operation of law, and if Beneficiary enters into any transaction whereby such transferee or transferees become indebted to Beneficiary, this Guaranty, subject to all the other terms hereof, shall apply to any Guaranteed Obligations or balance of Guaranteed Obligations of such other transferee or transferees to Beneficiary.

The Guarantor irrevocably waives acceptance hereof, diligence, presentment, demand, protest, notice of dishonor, notice of any sale of collateral and any notice not provided for herein, and any requirement that at any time any person exhaust any right to take any action against the Debtor or its assets or any other guarantor or person. Guarantor further waives notice of the transactions between Beneficiary and Debtor, notice of the execution and delivery, amendment, extension, or renewal of any present or future instrument pertaining to the Guaranteed

Obligations, notice of default by Debtor, and any other notice not expressly required by this Guaranty. Guarantor further consents, without further notice, to any extension or extensions of the time or times of payment of said Guaranteed Obligations, or any portion thereof, and to any change in form or amount, or renewal at any time, of such Guaranteed Obligations, or any portion thereof, in each case up to an aggregate amount set forth below. Should any present or future Guaranteed Obligations incurred by Debtor not be paid when due or at the time to which the same may be extended, Beneficiary may proceed against Guarantor for such Obligations at any time, without notice and without any proceeding or action against Debtor.

Guarantor shall not exercise any rights which it may have or acquire by way of subrogation until all of the Guaranteed Obligations are paid in full to Beneficiary. Guarantor shall not enforce any right or receive any payment by way of subrogation until all of the Guaranteed Obligations then due shall have been paid in full and Beneficiary agrees to take at Guarantor's expense such steps as the Guarantor may reasonably request to implement such subrogation. If any amounts are paid to Guarantor in violation of the foregoing limitations, then such amounts shall be held in trust for the benefit of Beneficiary and shall forthwith be paid to Beneficiary by Guarantor to reduce the amount of outstanding Obligations, whether matured or unmatured.

In the event that acceleration of the time for payment of any amount payable by the Debtor under the Agreement is stayed upon the insolvency, bankruptcy or reorganization of the Debtor, all such amounts otherwise subject to acceleration or required to be paid upon an early termination pursuant to the terms of the Agreement shall nonetheless be payable by the Guarantor hereunder forthwith on demand by the Beneficiary.

The Guaranty shall be binding upon and inure to the benefit of the Beneficiary and its successors and assigns. Beneficiary may assign this Guaranty in its sole discretion. Guarantor may not assign its rights and obligations hereunder, whether by operation of law or otherwise, without the prior written consent of the Beneficiary which consent may be arbitrarily withheld, and any such purported assignment without such written consent will be void.

Except for increases in the aggregate amount of Guaranteed Obligations, no other provision of this Guaranty may be amended, supplemented, or modified, nor any of the terms and conditions hereof waived, except by a written instrument executed by the Guarantor and an authorized representative of the Beneficiary.

The rights, powers, remedies, and privileges provided in this Guaranty are cumulative and not exclusive of any rights, powers, remedies, and privileges provided by law and any other agreement.

Notwithstanding anything in this Guaranty to the contrary, Guarantor's liability under this Guaranty and the Beneficiary's right of recovery under the same shall be limited to an aggregate amount of \_\_\_\_\_ Dollars (\$\_\_\_\_\_). In the event Beneficiary engages in litigation to enforce this Guaranty, Guarantor agrees to pay, in addition to any amounts of Debtor which Guarantor has otherwise guaranteed to pay hereunder, any and all costs and

expenses incurred by Beneficiary (including reasonable attorney's fees) in enforcing this Guaranty provided Beneficiary is successful in such litigation.

Guarantor represents and warrants that:

(A) The Guarantor is duly organized, validly existing and in good standing under the laws of the jurisdiction of its incorporation and has full corporate power to execute, deliver and perform this Guaranty.

(B) The execution, delivery, and performance of the Guaranty have been and remain duly authorized by all necessary corporate action and do not contravene any provision of law or of the Guarantor's constitutional documents or any contractual restriction binding on the Guarantor or its assets.

(C) All consents, authorizations and approvals of, and registrations and declarations with, any governmental authority necessary for the due execution, delivery and performance of this Guaranty have been obtained and remain in full force and effect and all conditions thereof have been duly complied with, and no other action by and no notice to or filing with, any governmental authority is required in connection with the execution, delivery, or performance of this Guaranty.

(D) This Guaranty constitutes the legal, valid and binding obligation of the Guarantor enforceable against the Guarantor in accordance with its terms, subject, as to enforcement, to bankruptcy, insolvency, reorganization and other laws of general applicability relating to or affecting creditors' rights and to general equity principles.

All notices or communications to the other party may be faxed and shall be followed in writing by registered or certified mail, or overnight delivery service to:

**To Guarantor:**

\_\_\_\_\_  
Attn: \_\_\_\_\_

\_\_\_\_\_  
Fax: ( ) \_\_\_\_\_

**To Beneficiary:**

AEP Texas Inc.  
c/o American Electric Power Service Corporation  
Attn: Managing Director, Credit Risk Management  
303 Marconi Blvd, 3<sup>rd</sup> Floor  
Columbus, OH 43215  
Fax: (614) 324-4591

or such other address as each party shall from time to time specify.

If any provision of this Guaranty is found by a court of competent jurisdiction to be void, illegal or otherwise unenforceable in that jurisdiction, such provision, to the extent of its invalidity, shall be severed from this Guaranty and be ineffective in that jurisdiction; provided, however, that such finding shall not affect the validity, legality or enforceability of such provision in any other jurisdiction or the validity, legality or enforceability of any other provision of this Guaranty. THIS GUARANTY WILL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF OHIO, WITHOUT REFERENCE TO CHOICE OF LAW DOCTRINE. Guarantor waives any right to trial by jury with respect to this Guaranty.

IN WITNESS WHEREOF, the Guarantor has caused this Guaranty to be duly executed as of the date set forth below.

(\_\_\_\_\_)

By: \_\_\_\_\_

Name:

Title:

Date:

## EXHIBIT "E-2"

### FORM OF IRREVOCABLE STANDBY LETTER OF CREDIT

DATE OF ISSUANCE: \_\_\_\_\_

[Address]

RE: Credit No. \_\_\_\_\_

We hereby establish our Irrevocable Standby Letter of Credit in your favor for the account of \_\_\_\_\_ (the "Account Party"), for the aggregate amount not exceeding \_\_\_\_\_ United States Dollars (\$ \_\_\_\_\_), available to you for payment at sight upon demand at our counters at [Location] on or before the expiration hereof against presentation to us of the following document, dated and signed by a representative of the beneficiary:

"The Account Party has become obligated to pay to the Beneficiary or its assigns an amount equal to or exceeding [\$ \_\_\_\_\_] USD. Wherefore, the undersigned does hereby demand payment of such dollar amount."

Partial and multiple drawings are permitted hereunder.

We hereby agree with you that documents drawn under and in compliance with the terms of this Letter of Credit shall be duly honored upon presentation as specified.

This Letter of Credit shall be governed by the Uniform Customs and Practice for Documentary Credits, 2007 Revision, International Chamber of Commerce Publication No. 600 (the "UCP"), except to the extent that the terms hereof are inconsistent with the provisions of the UCP, including but not limited to Articles 14(b) and 36 of the UCP, in which case the terms of this Letter of Credit shall govern. With respect to Article 14(b) of the UCP, the Issuing Bank shall have a reasonable amount of time, not to exceed three (3) banking days following the date of its receipt of documents from the Beneficiary, to examine the documents and determine whether to take up or refuse the documents and to inform the Beneficiary thereof accordingly.

In the event of an Act of God, riot, civil commotion, insurrection, war or any other cause beyond our control that interrupts our business (collectively, an "Interruption Event") and causes the place for presentation of this Letter of Credit to be closed for business on the last day for presentation, the expiry date of this Letter of Credit will be automatically extended without amendment to a date thirty (30) calendar days after the place for presentation reopens for business.

It is a condition of this Letter of Credit that it will be automatically extended without amendment for one (1) year from the expiration date hereof, or any future expiration date, unless at least ninety (90) days prior to any expiration date we notify you at the above address by

registered mail or hand delivered courier that we elect not to consider this Letter of Credit renewed for any such period.

All commissions, expenses, and charges incurred with this Letter of Credit are for the account of the Account Party.

{Note: Must note the Expiry Date in the format}

[BANK SIGNATURE]